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MEMBERS PRESENT: Chairman Robinson Vice Chairman Prengaman Mr. Brady Mr. Chaney Mr. Dini Mr. DuBois Mr. Jeffrey (late) Mr. Kovacs Mr. Rusk MEMBERS ABSENT: Mr. Bennett (excused) Mr. Bremner (excused)

GUESTS PRESENT: See attached guest lists.

Chairman Robinson called the meeting to order at 2:10 p.m. and asked for a committee introduction of the following:

BDR 57-1854 - regulation of health plans (<u>AB 668</u>) BDR 20-54 (ACR) - urging alleviation of housing problems(<u>ACP 43</u>) BDR 51-1899 - confectionery definition of adulteration (<u>AB 667</u>) BDR 56-1667 - acquisition of real property BDR 54-1985 - architects registration fees (<u>AB 666</u>)

Dr. Robinson explained that BDR 56-1667 is an act which is exactly opposite to one that previously passed out of committee.

Mr. Dini moved for a committee introduction and referral back to committee of the above measures excluding BDR 56-1667, seconded by Mr. Kovacs, and carried unanimously by the members present with Mr. Bennett, Mr. Bremner and Mr. Jeffrey absent at the time.

When Mr. Brady asked if there was a deadline for introduction of bills, Dr. Robinson indicated that this next weekend would be the deadline unless it was a bill to correct another bill.

Dr. Robinson informed guests that testimony on <u>SB 231</u> would be limited to one hour, one-half hour for proponents and one-half hour for opponents.

<u>SB 231</u>: Changes various provisions of law governing physical therapists and their assistants.

Pat Conn, Chairman of the Nevada State Board of Physical Therapy Examiners, testified in favor of <u>SB 231</u> by reading her prepared testimony which is attached as <u>EXHIBIT A</u>. In discussing <u>SB 231</u> with the Medical Association, Ms. Conn indicated that their only objection was the word "psychologist" on page 8, line 25, and Ms. Conn asked that this be deleted from the bill.

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In response to Mr. Kovacs question as to how many physical therapists were in the State of Nevada, Ms. Conn said that there were approximately 130 licensed in the state but only about 80 actively working at present with the balance either inactive or practicing in other states.

Jack Close, a Physical Therapist in Las Vegas and co-director of the Physical Therapy Department at Desert Springs Hospital, said that much dialogue and compromise has taken place on this bill in order to protect the residents of the State of Nevada who desire physical therapy under the guidelines of this legislation. He related that the Hospital Association which previously opposed this bill is now in favor of the bill in its second reprint form. He noted that physical therapists have been accused of wanting to do everything from surgery to X-ray, but this is not the intent; it is only to do what they are trained to do. He indicated that the educational program for a physical therapist is a minimum of a bachelor degree and distributed a list of schools and universities offering accredited bachelor and master degree courses which is attached as EXHIBIT B pages 1 through 9.

Mr. Close testified that most remaining opposition is reference to "joint mobilization" which he defined as "movement of a joint," stating that physical therapists have been moving joints since the profession was originated some fifty years ago. He noted that they have agreed to the addition of "(without chiropratic adjustment)" on line 13, page 1 of the bill because they feel they do do things differently than a chiropractor does, but they are attempting to move joints every time a patient is exercised, and if they are prevented from moving joints, it will mean the end of their profession.

Further, Mr. Close said that referrals are being expanded to include dentistry for jaw therapy, but a dentist, as well as any physician, can only refer patients according to his specialty.

When Dr. Robinson asked if all patients must be referred by a doctor, Mr. Close replied affirmatively with the exception of emergency treatment if a medical doctor is not present.

Dr. Robinson asked if physical therapy treatment is established by the physician, and Mr. Close said that treatment formerly was prescribed by a physician but recently with the increase in ability and skill of the physical therapists a physician will write "evaluate and treat as indicated." In his department they would then provide the evaluation and recommended treatment to the physician who would usually concur.

In answer to Dr. Robinson's question about physical therapist assistants, Mr. Close indicated that this assistant was created by the national association and this program is

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certified by the association in conjunction with the American Medical Association. He noted that this assistant can do the technical aspects of the profession such as hot or cold packs, massage or ultrasound; that this frees the physcial therapist for specific types of exercise, certain joint movements and other professional treatment.

When Mr. Kovacs asked if passage of this bill would improve quality of service or provide more availability, Mr. Close responded that expansion of the referral base into a physical therapy clinic will increase availability of the services; quality is maintained by peer review. He noted that this bill includes a requirement of continuing education which they feel is necessary in their rapidly changing profession.

Mr. Buzz Moore, practicing Physical Therapist in Reno with four others, pointed out that the minimum requirement for application to a physical therapy school is three years of college, but he did not know of anyone who had been accepted in the last few years without a bachelor's degree; that therapy schools have two year or more programs. As private praticing physical therapists he and his associates do not see any patients without medical referral, but they do participate in athletic contests as volunteers for screening programs for athletes in schools in conjunction with orthopedic surgeons who are team physicians. He concluded by saying that physical therapists do not want to be chiropractors, they do not practice chiropratics, they do not tell them how to run their law, but the physical therapists feel they should be able to administer and practice their own profession.

In response to Mr. Kovacs question, Mr. Moore stated that all their patients are referrals from physicians; that sometimes the physician will seek their advice as to what treatment should be given.

Mr. Rick Pugh, Executive Director of the State Medical Association, reaffirmed their support for <u>SB 231</u> with the exclusion of "psychologist" on page 8.

Mr. Wayne Steed, registered physical therapist and Director of the Physical Therapy Department of Sunrise Hospital, said there was controversy and accusations that physicians; that are trying to set themselves up as primary physicians; that the confusion stems from accusations of trying to diagnose. He noted that it categorically states in the bill on page 1, line 17, "Does not include: (a) The diagnosis of physical disabilities;" however, they do evaluate which is misconstrued as diagnosing. He referred to a manual which includes rules and regulations that must be followed by his department which requires evaluating of a patient upon referral, establishing of goals, performance of regular and frequent reassessments, and periodic assessments of the quality and pertinance of the care provided. He concluded by saying that they can only do this if they have some baseline information which is the

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basis for an initial evaluation; physical therapists do not treat without referral and do not diagnose, but once a patient has been referred and the diagnosis has been made, they can then proceed with an evaluation.

Mr. David Hagen, lobbyist for the Chiropratic Association, introduced Dr. Clyde Porter, Dr. Robert Jackson, and Dr. Sam Ellis to speak in opposition to <u>SB 231</u>. He indicated that Dr. Porter would address education of the physical therapist.

Dr. Porter referred to a series of curricula for physical therapists offered by several schools which is attached as <u>EXHIBIT C</u>. He noted that none of these give specifics on test and measurement that go beyond evaluation; that on page 1, line 8, "interpretation" constitutes diagnosis. He then referred to the AMA guidelines which are included in <u>EXHIBIT C</u> on page 9 which he said would delineate what a physical therapist does, how he practices and under what auspices. He further stated that nowhere in these curricula in <u>EXHIBIT C</u> is training in joint mobilization indicated, but that chiropractors all receive at least 400 hours of training in spinal manipulation.

Dr. Porter noted that EXHIBIT C also contains curricula for medical and chiropratic courses for comparison and pointed out that, as diagnosis is implied, manipulation is implied, he would hope for proper training of physical therapists if they are going to perform these on the public. He said there is no evidence of education in the art and science of joint mobilization as there is for chiropractors and osteopaths; as the very definition of chiropratic in Nevada embodies manipulation of the joints and spine, as the degrees of chiropractors, osteopaths, medical doctors and dentists are levied to those educated to perform diagnosis and treatment, the implications and ramifications of the changes in the physical therapy laws of Nevada warrant no other alternative but complete removal of these proposed changes for the health and safety of the people of Nevada.

Dr. Porter directed the committee's attention to page 16 of <u>EXHIBIT C</u> and pointed out that Arkansas, California, Connecticut are all offering bachelor degree programs in physical therapy and that standard curricula is from 17 to 22 months of training; that all medical and chiropractic curricula constitute a minimum of five years in chiropractic schools plus two years in preprofessional chiropractic training.

When Mr. Brady inquired if a patient could go directly to a chiropractic doctor, Dr. Porter responded that chiropractors are primary care physicians not requiring referral.

Mr. Rusk commented that over the years the Medical Association has objected to certain areas of chiropractic medicine, but at the same time they do not object to physical therapists primarily

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because they work with the patient that is referred to them which is a control factor. Mr. Rusk pointed out that joint mobilization is limited by the parenthetical phrase "without chiropractic adjustment" and questioned Dr. Porter's concern

Dr. Porter said that if that is going to be included, perhaps the State Board of Chiropractors should be allowed to enter physical therapists' offices to determine whether or not this type of treatment is being performed.

When Mr. Rusk asked if he was not satisfied with the expertise of referral by a primary physician, Dr. Porter replied negatively. In response to Mr. Rusk's comment, Dr. Porter indicated that chiropractors did have the same education as primary physicians; that the only difference in chiropractic training and medical training was in the field of surgery and drugs and that there is no hospital residency requirement.

Mr. Hagen said that Dr. Jackson would now go through the bill line by line outlining their objections.

Dr. Jackson said that on page 1, line 13 it might be clearer to specify "without spinal manipulation" because lines 17 and 18 prohibit diagnosis and the use of X-rays; that without proper physical diagnosis and X-rays to determine safety, to manually manipulate the spine could cause great harm to patients.

Mr. Conn responded affirmatively to Mr. Rusk's question as to whether joint mobilization included spinal manipulation.

Dr. Jackson continued by saying that the next concern of the educational community was on page 6, line 5, it states that the examination must include a written portion, and he felt that for the protection of the public oral and practical for demonstration of proficiency should be included. On lines 38 through 49 he knew of no provider group who allows a student or anyone without a license to practice in any office.-He commented on page 7 they were pleased to see the requirement of continuing education for license renewal but he thought that there should be a statement requiring subjects in the normal physical therapy curriculum. He noted pleasure that "psycologist" was to be deleted on page 8 but displeasure with lines 27 and 28 that allow examination at an athletic event if no physician is in attendance.

In discussion the committee felt that an examination by a physical therapist would certainly be better than no examination at all.

Dr. Jackson said that on page 10, line 12, they felt that the word "direct" should be left in the bill.

Mr. Hagen referred to page 5, lines 3 through 5, saying that this could be construed as meaning that the physical therapy board

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could inspect a chiropractic or medical facility where physical therapy is being performed, and although he knew that this was not the intent of the legislature, he felt this section of the bill should be rewritten.

Dr. Sam Ellis, a Chiropractic Physician in private practice in Las Vegas, President of the Chiropractic Association of Nevada, indicated great concern with <u>SB 231</u> because it does not give adequate protection to the consumers of Nevada; that passage of this bill will plunge the healing arts of the state into a miasma of legalisms and subvert the attention of the health care practitioner from his business. He said that "joint mobilization" in effect grandfathers in all types of people who have no experience with joint mobilization, joint manipulation, whatsoever; that it allows a physical therapist whose experience may just be transitory, whose experience may be an eight or ten hour seminar, to perform this on the public legally. He noted that it was ironic that for years chiroprators pioneered and developed the art of joint and spinal manipulation long before the physical therapist ever came upon the scene; that there are some 16 books by the medical profession on the efficacy of spinal manipulation all derived from the original work of the chiropracters who have brought this science to practical and therapeutic knowledge. He concluded by saying that joint mobilization, the protection of the chiropractic profession, and the protection of the public are in the hands of this legislature, and that the legislature will in its wisdom take appropriate action to safeguard and protect the health consumers of the state.

When Mr. Chaney asked if the suggested changes that were made at this meeting were proposed at the Senate hearing, Mr. Hagen replied that they were but he did not know why they were not included.

Mr. Kovacs commented that there were really only three or four minor points of contention other than joint mobilization and wondered if this were negotiable. Dr. Ellis said that whatever the physical therapists wanted to do for their internal policing was their business, but they would like to know why #6 on page 5 is written like it is because they feel it is a direct threat to their office.

When Dr. Robinson asked if there had been any attempt to inspect physical therapist's offices to see if they were wrongly using joint manipulation, Dr. Porter responded that the board has had some minor complaints, that they only respond to specific complaints and there were none at this time.

Dr. Eugene Scrivner, State Board of Examiners and lobbyist for the State Board, said that he had been practicing joint manipulation for thirty years, not just on the spine but every joint in the body; that chiropractors are doctors, not just spinal technicians.

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When Mr. Rusk asked what joint mobilization Dr. Scrivner did outside of chiropratic adjustment, Dr. Scrivner said that he can do joint manipulation on all joints in the human body. Mr. Rusk then asked if he meant that joint manipulation can not be done without chiropractic adjustment, and Dr. Scrivner said that many people do joint manipulation but the law specifically says that the primary health physician is allowed to do this because of the education requirements. He added that in an oral, practical examination applicants must show him the type of treatment they are using on a joint, orthopedic tests, neurological tests on all joints. When a patient comes to him, Dr. Scrivner said that it is his job to analyze the case, diagnose the case and treat that case; if a fracture is discovered, they know their limitations and would send that patient to an orthopedic physician.

Ms. Conn distributed to the committee a definition of "interpret" attached as EXHIBIT D and a definition of diagnosis attached as EXHIBIT E. She noted that the definition of interpret is not included in a medical dictionary so that she did not feel that this can be a part of diagnosis.

Mr. Buzz Moore read a letter from Dr. Laurence McClish, an orthopedic surgeon in Reno attached as <u>EXHIBIT</u> F. He related that this past week he had a call from an orthopedic surgeon asking for an interpretation of an injured knee; this patient had been sent to him by a chiropractor in Carson City; he then received a call from this chiroprator asking for his interpretation of the test. He stressed that most medical doctors would be amazed to hear that their education is comparable to the chiropractors.

Mr. Rusk commented that in testimony on another bill when a medical doctor was asked if he recognized the chiropractic profession, he answered not in the area of diagnostic ability. He further noted that it was not a fair comparison in education to only compare course hours, that requirements for entrance • into medical school are far more stringent in many cases.

When Mr. Kovacs asked if he had any objections to requiring oral and practical examinations for physical therapists, Mr. Moore stated that they have oral and practical examinations during their clinical affiliation program constantly. Mr. Close commented that the bill states that examinations are at the discretion of the board and felt that this decision should be left up to the board.

When Mr. Kovacs referred to the opposition to page 5, lines 3 through 6, Ms. Conn submitted new language for this section which is attached as EXHIBIT G. She added that they have no desire to inspect any office other than licensed physical therapists.

Mr. Kovacs then asked if they would have any objections to not deleting the word "direct" on page 10, line 12, and

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Ms. Conn said that direct implies being right there looking over the shoulder and, therefore, they would prefer that "direct" remain deleted.

When Mr. Brady asked how many therapists work in hospitals, Mr. Moore stated that out of the 80 working licensed physical therapists about 75 percent work in hospitals.

Mr. Randy Jacobe, a physcial therapist employed by the Reno Orthopedic Clinic, said that he is currently employed by nine orthopedic surgeons and that after a patient's limb has been immobilized for a period of time, it is his job, when the doctor says that it is healed, to evaluate the patient and measure his range of motion for limitations; from this evaluation he sets up a treatment protocol based on his expertise. He noted that one part of gaining range of motion is joint mobilization; that joint mobilization is like stretching a hamstring.

When Mr. Rusk asked when he might get into spine mobilization, Mr. Jacobe said there are physical therapists who are very knowledgeable in spinal mobilization; that these therapists are trying to take a spine that is in disfunction and make it functional.

Mr. Close commented that after X-rays have been taken and diagnosis made by the physician, a patient could be referred to him for spinal manipulation to regain mobility.

When Dr. Robinson asked how he would answer the argument that this bill will grandfather in those who have not had training, Mr. Moore said that physicians would not refer a patient to someone who had not had training and Mr. Close commented that physicians know the areas of expertise of physical therapists.

Ms. Conn submitted the definitions of mobilization and manipulation which are attached as <u>EXHIBIT H</u>. She also submitted • manual therapy courses and two university course curricula showing what is being taught which are attached as EXHIBIT I.

When Mr. Kovacs asked if there had ever been a time that a physical therapist had referred a patient back to a chiropractor, Mr. Close said that if a chiropractor refers a patient to him, he requires signature by a medical doctor. Mr. Kovacs reiterated his question and Mr. Moore responded that he would refer the patient back to the medical doctor, but he would never refer a patient to a chiropractor.

Mr. Jacobe interjected that he respected the chiropractic profession and could not understand the backbiting; that he did not see why these two professions could not work together.

Dr. Ellis commented that he did not feel that the problem of grandfathering was correctly addressed; that it is never the intent of the law to leave people's health to the whim of an

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individual practioner. He further stated that they do feel that the crux of the bill is joint manipulation, health protection for the consumer and that the question of the grandfather clause has not been adequately answered.

Mr. Brady said that he has had experience on both sides and that if there has been any misrepresentation he felt that it was by the chiropractors. He stated that he had never heard physical therapists make any rash claims, they work in hospitals, they work under the supervision of the doctors. He wondered if chiropractors should be under the supervision of doctors.

Dr. Ellis stated that it has been definitely established by the courts that chiropractic is not the practice of medicine; that it is a separate and distinct entity and provides a service. Mr. Brady commented that they have made medical claims at this hearing.

Laura Mason, a Registered Nurse, said that she has worked with all three professions, medical doctors, chiropractors and physical therapists. She said that joint mobilization is not defined enough in the bill; that chiropractors are only saying that joint mobilization is something that they do that physical therapists are not trained to do.

Wayne Steed said that chiropractors should define their terms; that originally they claimed only chiropractic adjustment, something that no one else was doing; now suddenly they are assimilating all the traditional medical terms such as manipulation, mobilization that have been a part of the osteopathic profession for years. He added that now they are applying the chiropractic definition to the traditional medical terms and saying that physical therapists cannot do what they have been doing for many years and doing it well.

Dr. Robinson requested that the secretary make copies of the minutes of the Senate hearings on <u>SB 231</u> and distribute them to committee members for their review. He then closed the hearing on <u>SB 231</u> and directed attention to AB 585.

<u>AB 585</u>: Prohibits certain practices relating to overdraft charges on checking accounts.

Jane Ham, Assemblyman from Clark County, said that this bill was requested by a constituent who had a loan and his checking account at the same bank; that when he failed to make his loan payment, the bank took the money from his checking account. She said that the bank was allowed to do this under NRS 104.4401 but the bank never notified her constituent that they had taken this money from the checking account; therefore, he continued to write checks unaware that his account was overdrawn. Mrs. Ham said that <u>AB 585</u> would require a bank to notify a customer of any deduction from his account other than for payment of the customer's check or pursuant to written authorization from the customer. She added that this notice

## Library Note:

During the examination of this set of minutes, page 10 of this meeting was found to be missing. The page is also missing from the microfiche.

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Mr. Sevigny addressed part two of the bill which pertains to merger or consolidation of banks. He noted that there are three parts of the law: One dealing with state banks merging with another state bank which gives authority to the banking division to determine whether or not there is a community need for consolidation; another deals with consolidation of state banks with national banks and where the national bank is the surviving bank, there are no parameters for determination of community need or monopolization. He felt that the State Banking Division would be a better judge than the Federal Government whether there would be a monopoly in Nevada, and this section of the bill gives this authority to the division; the third part covers the merger of two national banks and this is not a problem.

Mr. DuBois asked if the superintendent of banks was the sole judge of whether a merger was needed or not, what recourse would the banks have. Mr. Sevigny stated that the banks always have recourse through the State Board of Finance or, more importantly, recourse through the courts.

When Mr. Prengaman questioned the makeup of the State Board of Finance, Mr. Jim Wadhams, Director of the State Board of Commerce, said that the State Board of Finance consists of the governor, the treasurer, the controller, and two people from the general public in the financial industry.

In response to Dr. Robinson's question, Mr. Sevigny said that interstate banking is definitely coming; that First National Bank would not have changed their name to First Interstate Bank if they did not feel strongly that interstate banking was on its way.

When Mr. Kovacs commented that community need must have been determined for thrift companies and savings and loans, Mr. Sevigny said that they determine community need for branch offices also. He said that in the merger of Bank of Nevada and First National Bank they had no determination and this is what this bill will correct.

Dr. Robinson read a letter from Jack J. Pursel with enclosed suggested amendments to <u>SB 492</u> which is attached as <u>EXHIBIT J</u>. He asked the committee to review these amendments.

Mr. Sevigny said that he would review these amendments and report back to the committee.

Mr. Jim Wadhams, Director of Commerce, said that this authority is not unique; that there is a similar act relating to insurance companies and the insurance commissioner has this power.

When Mr. DuBois asked if the Superintendent of Banks has this power in other states, Mr. Sevigny replied that almost all states have some parameters for exercising control over mergers in any situation; that most states have far greater **166** control than <u>SB 492</u> would allow.

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#### Dr. Robinson opened the hearing on AB 589.

<u>AB 589</u>: Encourages breeding of race horses and greyhounds in Nevada.

Don Perry, a Nevada greyhound breeder, said that he races his dogs at the Las Vegas Downs racetrack and that when the Nevada Racing Act was enacted it was to encourage agriculture and the breeding of horses and greyhounds and produce an additional source of revenue for the state. He noted that the Nevada Racing Commission at present allows a person to run his dogs if he has been a resident of the state for three years and, at the same time, has been in the greyhound business; that greyhound breeders feel that this is too long a time to have been in business and no other business has such requirements. He indicated that <u>AB 589</u> would change this requirement to one year residency and one year of raising greyhounds.

Another part of the bill according to Mr. Perry would regulate the amount paid to the greyhound kennels and the horse breeders, and increase this amount from 3 to 5 percent. He read a letter from Stanley Margolis, British American Kennels, containing complete financial statements which is attached as EXHIBIT K.

Mr. Perry indicated that dog racers have a contract with the track and in the past some tracks have gone to court to enforce the contract and have won; that some tracks have withheld the dogs' papers which prevents owners from running their dogs at any other track.

Mr. Perry noted that if the top kennel at Las Vegas Downs is losing approximately \$21,000 in three months, no new kennels will come to Nevada; these kennels need relief. He said that the dogmen are the ones who are putting on the show and the racetrack is nothing without them. He stated that the City of Henderson is making 1 percent, the state 3 percent, and the track is making money from admission, parking, programs and concessions.

When Mr. Dini questioned the purpose of the bill, Mr. Perry said that the bill will allow the people of the State of Nevada who raise greyhounds to race their dogs here which will bring in more dog people which will help the economy. He added that the second part of the bill raises the purse money so that the dogmen can survive. He commented that four contracts have been pulled out already because they could not stand to lose any more money.

In response to Dr. Robinson's question, Mr. Perry replied that at the present time 18 percent of all money wagered is withheld from the bettors; of this 18 percent, 4 percent goes to the state, 14 percent goes to the racetrack; out of this 14 percent the racetrack pays the dog people 3 percent which they would like raised to 5 percent. Minutes of the Nevada State Legislature Assembly Committee on COMMERCE Date: May 13, 1981

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In response to another question from Dr. Robinson, Mr. Perry stated that the Racing Rules and Regulations require three years of residency in the state and three years in the business or raising, racing or training greyhounds.

When Dr. Robinson asked if the same was required for horses, Mr. Duane Goble, Executive Secretary of the Nevada Racing Commission, stated that at this time there is no requirement for horse breeders.

When Mr. Rusk asked how many greyhounds were involved at British American Kennels, Mr. Perry indicated that each kennel is allowed to submit papers on 42 dogs; that there were 20 kennels at the Las Vegas track but there are only 18 now. Mr. Rusk asked if any other kennels were planning to leave, and Mr. Perry said that many are awaiting the outcome of this bill.

Mr. Rusk commented that it would seem to be in the track's best interest to make this a profit making venture and wondered if the free market would eventually work this problem out through normal attrition.

When Dr. Robinson questioned what the percentage was in other states, Mr. Perry replied that in Massachusetts it is 3 percent, Arizona is 2½ percent but the handle in these states is much larger.

Leda Carver from Fallon said that she has been raising greyhounds for years in the state and racing out of state until the track opened here in Nevada. She indicated that she has been forced to sign a contract with the track here so that she cannot move her dogs out; that the handle is so low that it will not pay the feed bill.

When Mr. Prengaman inquired about the fiscal note, Mr. Goble said that it is very difficult to estimate the fiscal impact because so many variables are involved, such as not knowing how many greyhounds will be able to compete or what the purse structure will be. He said that he made a rough estimate of \$5,000 the first year.

Mr. Bill Eddy said that he had a greyhound farm in Sandy Valley and that he was about wiped out by the loss of money in racing his greyhounds. He suggested the possibility of a sliding scale so that when the handle increases, which is expected in a few years, the percentage can be lowered accordingly. He said that the greyhound people must have help.

Mr. David Funk, Vice President and Managing Director of Las Vegas Downs, spoke in opposition to <u>AB 589</u> because he said that this legislation would destroy in one day what has taken years to create. He related that the major portion of the financing necessary to get greyhound and horse racing off the ground came from the Nevada Public Employee's Retirement

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System amounting to \$4 million, an additional \$15 million was raised from within the stockholders of Las Vegas Downs, and within the next few weeks an additional \$12 million will be committed to by the stockholders of his company. He indicated that all these investments were made because the State of Nevada has one of the most healthy racing acts of any state in the nation, but AB 589 will kill any possibility of racing ever making it on its own. He said that <u>AB 343</u> which would increase the number of days of horse racing was passed by this committee, but AB 589 is contrary to what AB 343 is attempting to establish; that if the racing is ever to become successful, it must be given the same opportunity that every other new business has, to grow in an orderly manner and create a strong financial base. In discussion in the hearing on AB 343 the horsemen spoke against a breeder's award because they felt racing should have a chance to become successful before any breeder's awards are given and that most of the dogmen feel the same way.

Mr. Funk continued by saying that racing in this state will be successful because 450 stockholders are dedicated, because over 200 employees are dedicated, and because many greyhound and horse people are dedicated to making it work. He said that the passage of <u>AB 589</u> will cause an overabundance of greyhounds making it impossible for any track operator or greyhound breeder to succeed. He reiterated that the passage of AB 589 will be the death of all racing in Nevada.

Mr. Funk indicated that he had no knowledge of this bill, that none of the people advocating the passage of the bill ever took the time to come to his office to air their problems. He noted that the State Racing Commission is not making any money nor is the track making any money but have lost more money than the breeders. He said that business is beginning to increase which will improve business for everyone.

In response to Mr. Rusk's question, Mr. Funk said that when people want to be released from their contracts he does so and that he has several kennels asking for bookings. He indicated that he did not plan to replace the kennels that have left so that those remaining will have a chance to have a greater share of the pie.

When Mr. Prengaman asked how many kennels have left, Mr. Funk said that two or three since January have moved out and that he knew of one other that was having problems and would probably pull out this month.

When Mr. DuBois asked how many dogs are bred in Nevada, Mr. Funk indicated that more than half of the dogs that race at Las Vegas Downs are bred in Nevada, but when they opened the track there were not enough kennels in the state and some had to be brought in from Oregon, Arizona, Colorado and other places.

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When Mr. DuBois asked how the purse here compared with other tracks in the country, Mr. Funk said that it is one of the highest as it is now, but because they are not handling as much money at the present time as other racetracks, the purses are not as large; that this is because it is a brand new business in Nevada and, as any other new business, takes time to establish. He noted that the entire racing industry is based upon a percentage and as business improves so will everyone's financial situation; that the last few weeks have indicated a upward trend.

In discussion the proponents of <u>AB 589</u> indicated that four or five kennels had pulled out, that one kennel had trouble obtaining a contract, and that attempts had been made to discuss their problems with Mr. Funk unsuccessfully. These allegations were denied by Mr. Funk.

Since there was no further testimony on <u>AB 589</u>, Dr. Robinson reopened the hearing on <u>AB 585</u>.

<u>AB 585</u>: Prohibits certain practices relating to overdraft charges on checking accounts.

Mr. George Aker, President of Nevada National Bank, thanked the committee for holding the bill for his testimony. He said that he had spoken with Assemblywoman Ham on this issue. He testified that this bill was essentially created to be sure that banks would send notice to customers when they charged the customers account in any situation where the charge was not by a regular check or a preauthorized charge to the account. He indicated that to his knowledge all banks in the state are now sending notice to customers when a charge is made; that they have no disagreement with the requirement that notices Mr. Aker said that they have great difficulty with be given. line one on page 2 which says that if there is a deduction. the bank must give the depositor notice; that if the depositor negotiates a check currently dated before the sixth day following, the check may not be dishonored or the depositor charged a fee. In banking he noted there is a two day reclamation period, the common occasion for charging an account a fee and sending notice; that every subsequent check that comes in would normally be returned to the bank that accepted that check in deposit. He said that AB 585 would preclude the bank from dishonoring that check and returning it to the bank that had accepted it for deposit; that the difficulty would be if they noticed a charge for an overdraft fee against the account, the customer would then know that the bank would be forced to honor every single check that came in during the next six day period; that the bank would have no control over the checks that would draw the account further into overdraft. He said that, in his opinion, the six day requirement would be totally unworkable.

Dr. Robinson commented that the genesis of the bill was that people were not notified of overdraft because a payment was

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extracted from their account; that most people do not realize that the bank is allowed to do this. Mr. Aker responded that every time a bank opens a checking, savings or new transaction account, the rules are given to the depositor as part of the opening packet. He indicated that in his bank during his seven years with them, notices have been sent; that the sequence for notice is, if a check would overdraw an account, notice would be prepared on swing shift and be put in the mail the next day, so that within one to two days a customer would have individual notice of overdraft. He commented that it his understanding that all banks do this also, but he could not testify to this. At the request of Assemblywoman Ham, he said that he had called another bank and had received assurance that they did notify all customers of overdraft. He indicated that the bill also applied to savings accounts and new transaction accounts, such as NOW accounts, and the same procedure for notification of overdraft is followed for these accounts.

When Dr. Robinson asked what notice was given for offset against a loan payment, Mr. Aker said that first delinquent notices are sent, and if still unpaid, notice of offset is sent. He noted that offset happens infrequently, but when it does, the entire loan balance is in jeopardy; that in the case of offset there is formal notice to the borrower that the bank has elected to offset the outstanding balance against positive funds that are in his account.

Dr. Robinson commented that he was speaking only of his bank, and Mr. Aker said, as former President of The Nevada Bankers Association, he was speaking for this association.

Mr. Scott Brenecke, an apartment owner, said that when he deposits his monthly rental check, he is assuming that all of these checks are good. If there is a two day reclamation period, he wondered why it takes 18 days on an in-state check and 22 days on an out-of-state check before he receives notice of a bad check. Mr. Aker stated that every bank operates under the two working day reclamation period, and it is then a physical function of where the check must be presented. He exemplified a check which must be sent to New York which would first be sent to San Francisco, then to New York, then to the drawer bank and then take that many days to come back for notification. He noted that each one of these stops has the two day reclamation period.

Mrs. Ham said that she did not realize the flaw in <u>AB 585</u> when it came from the bill drafter, and said if there was any way to amend this bill to help the depositor who does not receive notice of overdraft, she certainly would be in favor of it. She said if it cannot be amended this way, she would be willing to withdraw the bill.

Dr. Robinson indicated that the best solution was for Mrs. Ham to withdraw her bill, and he would send a letter to the

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Commissioner of Banking asking him, either by regulation or notice to the banks, to notify all banks that it is the intent of the legislature that all customers be immediately notified of offset procedures. This letter of intent is attached as EXHIBIT L.

Dr. Robinson directed attention to <u>AB 1</u> and explained that this bill was requested by a constituent of the sponsor.

<u>AB 1:</u> Prohibits possession or sale of intoxicating liquor which is more than 60 percent alcohol by volume.

Since there was no one present to testify for or against <u>AB 1</u>, Dr. Robinson said that the committee would take action on this bill later in the meeting.

The next bill to be discussed was AB 598.

<u>AB 598</u>: Imposes additional requirements on importers, suppliers and wholesalers of liquor.

Mr. Arthur Senini, President of the Wine & Spirit Wholesalers of Nevada, read his prepared testimony which is attached as <u>EXHIBIT M</u>. He said that representatives of the Nevada Beer Wholesalers Association and Northern Nevada Retailers Association were present and that the industry supports <u>AB 598</u>.

Mr. Renny Ashleman, an attorney representing Duluth Imports, said that after working with other attorneys and the Legislative Counsel Bureau on amendments to this bill, they felt this was the best way to address the problem and urged passage. He said that the bill primarily establishes a more orderly method of regulating the industry so that there are various governmental focal points where if someone wishes to inquire into the importation of liquor it can be done; that an ordinance requires this in Clark County but they feel it should be done on a statewide basis. He noted that it would assist in tax collection and in orderly marketing, but would not have any adverse effect on business in the State of Nevada.

When Mr. Brady questioned the problem addressed by this bill, Mr. Ashleman indicated that there have been some problems in other states that do not have this legislation with people who operate a fly-by-night operation bringing in a carload of a selected item and dumping it causing a loss of tax revenue and undercutting of a local businessman.

Mr. E. Williams Hammer, Deputy Attorney General representing the Attorney General's Office, said that he was present to provide information to the committee. He informed the committee that this type of legislation, sometimes called primary source legislation, otherwise called designation legislation, has in litigation in California been found to be in violation of the Sherman Antitrust Law; that an appeal was made to the

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California Supreme Court who refused to hear the case; that at present there is an attempt to take it to the United States Supreme court. He said that he wanted the committee to be aware of the fact that it could have antitrust impact.

In response to Mr. DuBois' question, Mr. Hammer indicated that the chances are slim that the U.S. Supreme Court will hear this case, thus the decision of the California Court will stand and legislation such as <u>AB 598</u> will be held in California to be in violation of the antitrust law.

When Mr. Rusk asked Mr. Hammer to point out the language in the bill which could be in violation of the antitrust laws, Mr. Hammer read a portion of the California law: "A licensed importer shall not purchase or accept delivery of any brand of distilled spirits unless he is designated by an authorized importer of such brand by the brand owner or his authorized agent. Such distilled spirits imported into California shall come to the rest at the warehouse of the licensed importer or an authorized warehouse for the account of such licensed importer before sale and delivery to a retail licensee." He then read "A supplier of liquor may sell to an a portion of <u>AB 598</u>: Their commercial relationimporter into this state only if: ship is of definite duration or continuing indefinite duration; and the importer is granted the right to offer, sell and distribute within this state or any disgnated area thereof such of the supplier's brands of packaged malt beverages, distilled spirits and wines, or all of them as may be specified. The supplier shall file with the department a written notice indicating the name and address of each designated importer. Each importer shall file with the department a written acceptance of the designation." He said that the operative language on page 2, line 3 would tie this up with California statutes is Section 4: "A person who holds an importer's license or permit may purchase a liquor only from the supplier of that liquor." Mr. Hammer then read a portion of the California court decision: "This statute goes much farther than to merely allowing manu-. facturer to determine to whom it will sell. It allows the manufacturer to forbid others to sell to a disfavored importer. We are not concerned with any contractual channel of distribution a brand owner might create or use. We are concerned with the state provided authority to prevent trade among others. In this respect, it is irrelevant that the statute gives brand owners the power to restrain intra-brand competition rather than inter-brand competition." He read another portion: "We conclude that the business and professions code section 23.672 is invalid unless the state action exception to the Sherman Act and to the United States Constitution's 21st Amendment authorizes a delegation of such authority to the state." He noted that the court then goes on to rule that the state action exemption is not available and that a previous case the 21st amendment, repealing prohibition, is not applicable. He indicated that under the manner the U. S. Supreme Court Looks at Sherman Act violations today and the state action exemption, legislation such as this, if attacked, would be held to be in the (Committee Minutes) violation.

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A member of the audience mentioned that this same type of legislation has just been successfully approved and passed by the court in the State of Kansas.

When Dr. Robinson questioned if the bill could be amended so as not to be in violation, Mr. Hammer said that with respect to the inventory maintenance requirements of importers and distributors he could see no problem with legislation in that area. Dr. Robinson then asked if this would be a state or federal decision, and Mr. Hammer indicated that this is a federal right, and as such, any action between private parties would be brought in a federal court; however, a California decision was brought in a California court to test the validity of the California statute and was not an action between private parties. When Dr. Robinson asked who brought suit, Mr. Hammer replied that the suit was brought by a group of companies within the liquor industry.

Mr. Ashleman said that he was Special Deputy Attorney General for antitrust matters and that he has conferred with most of the attorneys for the major trade councils involved in spirits. He said that there is litigation such as this all over the country and that our legislation is closer to that of Kansas; that the industry and the best experts that they could hire on the matter concluded that there is more than a reasonably good prospect of upholding this legislation.

Dr. Robinson said that the Speaker spent a great deal of time on this bill and that it has been returned to the bill drafter twice in order to be sure that it was not in violation.

Mr. Rusk felt that Mr. Daykin should give his opinion on this bill. Dr. Robinson said that he would request Mr. Daykin's opinion.

Mr. Scott Brenecke said that the Apartment Association had met with Mr. Vergiels and other Assemblymen and completely rewritten <u>AB 554</u>. He distributed these amendments to <u>AB 554</u> which are attached as EXHIBIT N.

Dr. Robinson said that since there was a quorum present, the committee would take action on a few bills.

<u>AB 1</u>: Prohibits possession or sale of intoxicating liquor which is more than 60 percent alcohol by volume.

Mr. Jeffrey moved to INDEFINITELY POSTPONE <u>AB 1</u>, seconded by Mr. Rusk. The motion was carried unanimously by the members present with Mr. Chaney, Mr. DuBois, Mr. Bennett, Mr. Prengaman and Mr. Bremner absent at the time of the vote.

<u>AB 580</u>: Requires public utilities to offer seasonal rates for interruptible electricity for irrigation pumps.

Mr. Rusk moved to adopt amendment No. 900 to <u>AB 580</u> (EXHIBIT extra and DO PASS as AMENDED.

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Mr. Jeffrey commented that they are doing this at present in Clark County and did not see any need for this bill. Mr. Kovacs noted that testimony from the affordable energy group indicated there would not be much saving realized.

There was no action taken on AB 580 at this time.

AB 288: Imposes certain financial requirements for protection of subcontractors and employees on construction projects.

Dr. Robinson read the amendments to AB 288 attached as EXHIBIT P. He said that he had a phone call from a contractor who at one time had twenty subcontractors working for him; that sending 60 registered letters a day would be very costly and time consuming.

Mr. Kovacs indicated that the amendments take care of this problem and that the bill addresses problems that the subcontractors have been having.

Mr. Kovacs moved to adopt amendment No. 595 on <u>AB 288</u> and DO PASS as AMENDED, seconded by Mr. Dini. Dr. Robinson voted no and Mr. Chaney, Mr. DuBois, Mr. Bennett, Mr. Prengaman and Mr. Bremner were absent. The motion died for lack of a majority.

<u>AB 190:</u> Removes requirements for evidence of insurance and associated penalties.

Mr. Dini moved to INDEFINITELY POSTPONE <u>AB 190</u>, seconded by Mr. Kovacs. The motion was carried unanimously by the members present with Mr. DuBois, Mr. Chaney, Mr. Bennett, Mr. Prengaman and Mr. Bremner absent at the time of the vote.

<u>AB 554</u>: Requires landlords to hold tenants' security deposits in separate interest-bearing accounts.

Mr. Scott Brenecke referred to the amendments to AB 554 that are attached as EXHIBIT N indicating that the first part of the amendments delete the whole bill. He said that the penalties that are referred to are similar to what they are doing in Washoe County at present. He said that No. 3 is the section that they are most interested in; that this section will allow for mandating for pass-through of the tax rebate package whereas now there is no method for mandating this for out-of-state owners without going to court. He noted that presently a tenant would have to go to small claims court in the state where the owner resides in order to get his share of the tax rebate or security deposit refund. He said that owners in the state are getting a bad name from the out-of-state owners who are not following the laws which means that tenants are not receiving equity or fair treatment. He said that the owners association would like to tighten the laws.

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The committee felt they would like to see the reprinted bill before taking any action.

<u>AB 496</u>: Authorizes parties to an automobile insurance policy to exclude named persons from coverage.

Mr. Dini moved DO PASS on <u>AB 496</u>, seconded by Mr. Jeffrey, and carried unanimously by members present with Mr. DuBois, Mr. Chaney, Mr. Bennett, Mr. Prengaman and Mr. Bremner absent at the time of the vote.

Since there was no further business, the meeting was adjourned at 6:40 p.m.

Respectfully submitted,

: Alatch

Patricia Hatch Secretary

### 61st SESSION NEVADA LEGISLATURE

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## ASSEMBLY COMMERCE COMMITTEE

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LEGISLATION ACTION

		· · · ·	
ATE May	13, 1981		
JBJECT AB	1: Prohibits pos	ssession or sale of int	oxicating liquor
	which is more	e than 60 percent alcoh	ol by volume.
OTION: IND	EFINITELY POSTPO	NE	
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	MOTION	AMEND	AMEND
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RADY	X		
REMNER HANEY	absent		
INI	<u>X</u>		
JBOIS	<u>absent</u>		
EFFREY	<u> </u>		
DVACS	<u>X</u>		
RENGAMAN USK	X	<u></u>	
OBINSON	X		
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Attached to	Minutes May	13, 1981	1671

## 61st SESSION NEVADA LEGISLATURE

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### ASSEMBLY COMMERCE COMMITTEE

LEGISLATION ACTION

DATE May 13, 1981

SUBJECT AB	190: Removes re	quirements f	or evidence	of ins	irance a	nd
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<u>VOTE</u> :	Yes <u>No</u>	-				
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BENNETT BRADY BREMNER CHANEY DINI DUBOIS JEFFREY KOVACS PRENGAMAN RUSK ROBINSON TALLY:	absent         x         absent         absent         x         6         0         OTION:         Passed		feated			
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### 61st SESSION NEVADA LEGISLATURE

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## ASSEMBLY COMMERCE COMMITTEE

### LEGISLATION ACTION

DATE May 13, 1981

SUBJECT AB		parties to an named persons		nsurance policy e.
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VOTE:	Yes <u>No</u>	Yes		Yes No
BENNETT	<u>absent</u>			
BRADY BREMNER	<u>X</u> absent			
CHANEY	<u>absent</u>			
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KOVACS	<u>X</u>	<u></u>	<u> </u>	
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Attached to	Minutes May	13, 1981		1673



# GUEST LIST

DATE: <u>5-13-81</u>

PLEASE PRINT	PLEASE PRINT		WISH TO SI	
YOUR NAME	· WHO YOU REPRESENT	FOR	AGAINST	BILL NO.
Pat Conn, chairman	Novada State Board of Physical Theory Examiners	$\checkmark$		SB 231
JACK CLOSE	MyselF & So. Dist oF NOTA			5B231
Wayne STEED	Southern member SJAPTA			SB 231
LAWRENCE P. MOONISY	SEAF & NEVADA P.T. ASSAN	~		SB 231
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SAMUEL H. VELLIS D.C.	PRESIDENT CHIRO. ASSN' OF NEV	•	V	50231
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TR. Clyde PERTER	CAN CLIRO, BRAXE EX.		$\checkmark$	SB 231
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ASSEMBLY COMMERCE COMMITTEE

GUEST LIST

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DATE: 5-13-81

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C. O. WATSON	Wing & Spuits ann Shop	X		AB1
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E. W. HANMER.	ATTOIZNEY GENEIZAL	COI	ument	AB 598
BNE HAM	ASSEMBLYMAN, CUARK PO.	X		ABSUS
RAMOY JACOBE	Norther DIST. APTA	X		AB 598
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## Nevada State Board of Physical Therapy Examiners

1001 Mountain St. Suite 1-D Carson City, Nevada 89701 May 13, 1981 Telephone 882-3221

### To The Assembly Committee on Commerce

As the Chairman of the Nevada State Board of Physical Therapy Examiners, I wish to speak in favor of <u>SB 231</u>. The original Physical Therapy Practice Act was passed about 25 years ago. There has been little change in this law during the intervening years. The Board of Physical Therapy Examiners is constantly working with the law and has found many areas that are in great need of change so that is why we initiated this Bill to update the law governing the practice of Physical Therapy in the State of Nevada.

Over two years of work has gone into this Bill. We corresponded with every Physical Therapist in this State for their input. We obtained laws from most of the states in the U.S. and studied them very thoroughly. We held open hearings (two in Reno, and two in Las Vegas) to discuss every portion of the Physical Therapy Practice Act. The Board's representative from the Attorney General's office was present at all of these meetings to advise us.

Many of the changes regard simple word changes and omission of outdated or redundant parts of the law. We have sought to better define, regulate and control the practice of Physical Therapy. We have set up hearing proceedures and revised the grounds for disciplinary action and penalties.

I feel that the Senate Committee on Commerce and Labor has been very diligent in its effort to answer all objections to this Bill and have made amendments acceptable to this Board.

I request your support for SB 231 and thank-you for the opportunity to appear before this committee today.

Sincerely,

at Com

Pat Conn, RPT Chairman



95 programs

EXHIBIT B

AMERICAN PHYSICAL THERAPY ASSOCIATION 1156 - 15th Street, NW, Washington, D.C. 20005

Department of Educational Affairs

#### KEY

(1A) Bachelor's Degree Course.
(1B) Accepts candidates for 2nd Bachelor's Degree.

(2) Certificate Course.

(3) Bachelor's degree available from

affiliating college or university.

(4) Accepts women students only.

## ACCREDITED BACHELOR DEGREE AND CERTIFICATE PROGRAMS

#### ALABAMA

9/80

Tuskegee Institute (1A) Curriculum in Physical Therapy School of Allied Sciences Tuskegee, AL 36088 (Theodore F. Childs, Ed.D.) 205 - 727-8687

iversity of Alabama in Birmingham (1A, 1B) Division of Physical Therapy University Station Birmingham, AL 35294 (Marilyn Gossman) 205 - 934-3566

University of South Alabama (1A, 1B) Department of Physical Therapy Division of Allied Health Professions 2000 Brookley Center, Rm. 210 Mobile, AL 36688 (Walter Gault). 205 - 433-6986

#### ARIZONA

Northern Arizona University (1A, 1B) Physical Therapy Program College of Public & Environmental Service Box 15105 Flagstaff, AZ 86011 (Richard Borden) 602 - 523-4092

#### ARKANSAS

University of Central Arkansas (1A, 1B) Department of Physical Therapy c/o Central Baptist Hospital 12th and Marshall Streets Little Rock, AR 72201 (Venita Lovelace-Chandler) 501 - 227-3523

#### CALIFORNIA

California State University at Fresno (1A) Physical Therapy Program School of Professional Studies Allied Health Professions Fresno, CA 93740 (E. Joan Turnquist, Ph.D.) 209 - 487-2022

California State University at Long Beach (1A) Physical Therapy Department School of Allied Arts & Sciences Long Beach, CA 90840 (Ray J. Morris) 213 - 498-4072

California State University at Northridge (1A, 1B) Curriculum in Physical Therapy Health Science Department Northridge, CA 91324 (Mary E. Bennett) 213 - 885-2475

#2 - Bachelor and Certificate Programs

#### CALIFORNIA

Children's Hospital of Los Angeles (2, 3) hool of Physical Therapy box 54700 Los Angeles, CA 90054 (Gertrude E. McDowell) 213 - 660-2450 ext. 2268

Loma Linda University (1A, 1B) Department of Physical Therapy School of Allied Health Professions Loma Linda, CA 92350 (Edd J. Ashley, Ed.D.) 714 - 796-7311 ext. 2981

University of California, San Francisco (2) School of Medicine Curriculum in Physical Therapy San Francisco, CA 94143 (Irene Gilbert, Ph.D.) 415 - 666-2093

#### COLORADO

University of Colorado (1A) riculum in Physical Therapy althe Science Center 4200 E. Ninth Ave., Box C243 Denver, CO 80262 (Elizabeth Barnett) 303 - 394-8466/8594

#### CONNECTICUT

Quinnipiac College (1A) Physical Therapy Program School of Allied Health & Natural Sciences 515 Sherman Avenue Hamden, CT 06518 (Harold Potts) 203 - 288-5251 ext. 264

University of Connecticut (1A) Program in Physical Therapy School of Allied Health Professions U 101 Storrs, CT 06268 (Joseph Smey) 203 - 486-4736

#### DELAWARE

University of Delaware (1A) Physical Therapy Program Allied Health Professions School of Life and Health Sciences 049 McKinly Laboratory Newark, DE 19711 (Barbara Cossoy) 302 - 738-2849

#### DISTRICT OF COLUMBIA

Howard University (1A) Department of Physical Therapy College of Allied Health Sciences Annex #I, Rm. B-29 6th & Bryant Sts., NW Washington, DC 20059 (Gloria Lawson) 202 - 636-7613 ext. 15

#### FLORIDA

 Florida International University (1A) Department of Physical Therapy School of Technology Tamiami Trail Miami, FL 33199 (Burton Dunevitz) 305 - 552-2266

University of Florida (1A, 2) Department of Physical Therapy J. Hillis Miller Health Center POB J-185 Gainesville, FL 32610 (William Gould, Ph.D.) 904 - 392-2631

#### GEORGIA

Emory University (2) Graduate Programs in Physical Therapy Division of Allied Health Professions 2040 Ridgewood Drive, NE Atlanta, GA 30322 (Ruth A. Kalish, Ph.D.) 404 -: 329-6138/6139

Georgia State University (1A) Department of Physical Therapy School of Allied Health Sciences University Plaza Atlanta, GA 30303 (Marylou R. Barnes, Ed.D.) 404 - 658-3092

### #3 - Bachelor and Certificate Programs

#### GEORGIA

Medical College of Georgia (1A, 1B) Department of Physical Therapy School of Allied Health Sciences Augusta, GA 30901 (Bella J. May, Ed.D.) 404 - 828-2141

#### ILLINOIS

Northwestern University (1A, 1B) Programs in Physical Therapy Medical School 345 E. Superior St., Rm. #1323 Chicago, IL 60611 (Sally C. Edelsberg) 312 - 649-8160

University of Health Sciences (1A) Department of Physical Therapy Chicago Medical School School of Related Health Sciences Bldg. 51, V.A. Medical Center Chicago, IL 60064 (Virginia Daniel) 312 - 473-9200 ext. 310 University of Illinois Medical Center (1A) Curriculum in Physical Therapy College of Associated Health Professions 1919 W. Taylor St. Chicago, IL 60612 (Harry Knecht, Ed.D.) 312 - 996-7764

#### INDIANA

Indiana University (1A, 1B) Physical Therapy Program Division of Allied Health Sciences School of Medicine 1100 West Michigan St. Indianapolis, IN 46223 (Dennis Dipert) ' 317 - 264-8913.

#### IOWA

University of Iowa (2) Physical Therapy Education Program kdale Campus Oakdale, IA 52319 (Gary Soderberg, Ph.D.) 319 - 353-4785

#### <u>KANSAS</u>

University of Kansas Medical Center (1A) College of Health Sciences & Hospital Division of Physical Therapy Rainbow Blvd. at 39th Kansas City, KS 66103 (Jessie Ball, Acting Director) 913 - 588-6795

Wichita State University (1A, 1B) Department of Physical Therapy College of Health Related Professions Box 43 Wichita, KS 67208 (Scott Minor) 316 - 689-3604

#### KENTUCKY

University of Kentucky Medical Center (1A, 1B) Department of Physical Therapy HP-500 College of Allied Health Professions Lexington, KY 40536 (Richard McDougall) 606 - 233-5839

#### LOUISIANA

Louisiana State University Medical Center (1A) Department of Physical Therapy Allied Health Professions Annex 2100 Perdido St. New Orleans, LA 70112 (John Burke, Ph.D.) 504 - 568-6591

#### MARYLAND

University of Maryland (1A) Department of Physical Therapy School of Medicine 32 South Greene St. Baltimore, MD 21201 (Clarence Hardiman, Ph.D.) 301 - 528-7721 ext. 20



## #4 - Bachelor and Certificate Programs

#### MASSACHUSETTS

ston University (1A)
Department of Physical Therapy
Sargent College of Allied Health
Professions
One University Road
Boston, MA 02215
(Catherine Perry, Ed.D.)
617 - 353-2720

Northeastern University (1A) Department of Physical Therapy Boston-Bouve College 360 Huntington Ave. Boston, MA 02115 (Christopher E. Bork, Ph.D.) 617 - 437-3160

Simmons College (1A, 2, 4) Program in Physical Therapy 300 The Fenway Boston, MA 02115 (Claire McCarthy) 617 - 734-6000 ext. 3114

## HIGAN

·University of Michigan (1A, 1B) Curriculum in Physical Therapy 1018 Fuller Ave. Ann Arbor, MI · 48104 (Richard E. Darnell, Ph.D.) 313 - 764-7177

Wayne State University (1A) Department of Physical Therapy College of Pharmacy and Allied Health Professions Detroit, MI 48202 (Roberta Cottman) 313 - 577-1432

#### MINNESOTA

Mayo Foundation (2, 3) School of Health Related Sciences Physical Therapy Program 200 First Street, SW Rochester, MN 55901 (Gordon K. Barnes) - 282-2511 College of St. Scholastica (1A, 1B) Physical Therapy Program 1200 Kenwood Ave. Duluth, MN 55811 (Varick Olson) 218 - 723-6123

University of Minnesota (1A, 1B) Course in Physical Therapy 860 Mayo Memorial Bldg., Box 388 420 Delaware Street, S.E. Minneapolis, MN 55455 (John D. Allison) 612 - 373-9038

#### MISSISSIPPI

University of Mississippi Medical Center (1A) Department of Physical Therapy 2500 N. State Street Jackson, MS 39216 (Neva Greenwald) 601 - 987-4882

#### MISSOURI

St. Louis University Medical Center (1A) Department of Physical Therapy 1504 S. Grand Blvd. St. Louis, MO 63104 (Irma Reubling) 314 - 664-9800 ext. 505

University of Missouri Medical Center (1A) School of Health Related Professions Physical Therapy Curriculum 206 Rusk Rehabilitation Center Columbia, MO 65201 (Gerald W. Browning, Ph.D.) 314 - 882-7103

Washington University (1A, 1B) Program in Physical Therapy School of Medicine 660 South Euclid Avenue St. Louis, MO 63110 (Steven J. Rose, Ph.D.) 314 - 454-2598

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### #5 Bachelor and Certificate Programs

### NEBRASKA

iversity of Nebraska Medical Center (1A) Ivision of Physical Therapy Education College of Medicine 42nd & Dewey Ave. Omaha, NE 68105 (Virginia M. Nieland, Program Director) 402 - 541-4259

#### NEW JERSEY

Kean College of New Jersey/ College of Medicine & Dentistry of New Jersey (1A) Physical Therapy Program School of Allied Health Professions 100 Bergen St. Newark, NJ 07103 (Katherine LeGuin) 201 - 456-5272

#### NEW MEXICO

University of New Mexico (1A) Division of Physical Therapy ied Health Sciences Center uquerque, NM 87131 • (William O'Brien, Ph.D.) 505 - 277-5755

#### NEW YORK

Daemen College (1A) Physical Therapy Curriculum 4380 Main St. Amherst, NY 14226 (Richard Schweichler) 716 - 839-3600

Hunter College (1A) Physical Therapy Program School of Health Sciences 440 East 26th Street New York, NY 10010 (Robert Ayers) 212 - 481-4469 Ithaca College (1A, 1B) Division of Physical Therapy Albert Einstein College of Medicine ' Jacobi Hospital, Rm. #2N4 Pelham Parkway South Bronx, NY 10461 (Justin Alexander, Ph.D.) 212 - 597-1292 (Bronx campus) 607 - 274-3342 (Ithaca campus)

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New York University (1A) Department of Physical Therapy Basic Science Building 433 First Avenue New York, NY 10010 (Arthur Nelson, Ph.D.) 212 - 481-5089

Russell Sage College (1A, 4) Department of Physical Therapy Troy, NY 12180 (Nancy Farina) 518 - 270-2266

State University of New York at Buffalo (1A, 1B) Department of Physical Therapy 617 Kimball Tower Buffalo, NY 14214 (Kathryn Sawner, Acting Director) 716 - 831-3342

State University of New York Downstate Medical Center (1A, 1B) Physical Therapy Program, Box 16 450 Clarkson Ave. Brooklyn, NY 11203 (Joan Pfitzenmaier) 212 - 270-1226

State University of New York
 at Stony Brook (1A, 1B)
Department of Physical Therapy
School of Allied Health Professions
Health Sciences Center
Stony Brook, NY 11794
(Jay Schleichkorn)
516 - 246-5000

State University of New York Upstate Medical Center (1A, 1B) Physical Therapy Program College of Health Related Professions 750 East Adams St. Syracuse, NY 13210 (Mr. Pat Van Beveren, Acting Director) 315 - 473-5101

#### NORTH CAROLINA

st Carolina University (1A, 1B) epartment of Physical Therapy School of Allied Health & Social Professions Greenville, NC 27834 (George Hamilton) 919 - 757-6961 ext. 235

University of North Carolina (1A, 1B) Division of Physical Therapy Department of Medical Allied Health Professions Wing C, 221 H Chapel Hill, NC 27514 (Charles P. Schuch, Acting Director) 919 - 966-4709

#### NORTH DAKOTA

Cleveland State University (1A, 1B) Physical Therapy Department Department of Health Sciences 24th at Euclid Ave., Rm. 607, Fenn Tower Cleveland, OH 44115 (Mary E. Miles) 216 - 687-3566

Ohio State University (1A, 1B) Division of Physical Therapy School of Allied Medical Professions 1583 Perry Street Columbus, OH 43210 (Frank M. Pierson) 614 - 422-5921

#### OKLAHOMA

University of Oklahoma (1A) Department of Physical Therapy Health Sciences Center Box 26901 lahoma City, OK 73190 (Martha Ferretti) 405 - 271-2131

#### OREGON

Pacific University (1A, 2) Department of Physical Therapy 2043 College Way Forest Grove, OR 97116 (Jean Baldwin, Ph.D.) 503 - 357-6151 ext. 360/362

#### PENNSYLVANIA

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Temple University (1A, 1B) Department of Physical Therapy College of Allied Health Professions 3307 North Broad St. Philadelphia, PA 19140 (Hyman L. Dervitz) 215 - 221-4815/6

University of Pennsylvania (1A, 2) Department of Physical Therapy Nursing Education Bldg. 420 Service Dr. SX Philadelphia, PA 19104 (E. Jane Carlin, Sc.D.) 215 - 243-5807

University of Pittsburgh (1A, 1B) Department of Physical Therapy School of Health Related Professions 101 Pennsylvania Hall University Drive C Pittsburgh, PA 15261 (Rosemary Scully, Ed.D.) 412 - 624-6690/2914

#### PUERTO RICO

University of Puerto Rico (1A) College of Health Related Professions Medical Sciences Campus GPO Box 5067 San Juan, PR 00936 (Yolanda Diaz Buso) 809 - 753-4859/4858

#### SOUTH CAROLINA

Medical University of South Carolina (1A) Physical Therapy Program 171 Ashley Ave. Charleston, SC 29403 (Nancy Patton, Ph.D.) 803 - 792-2961

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#### #7 - Bachelor and Certificate Programs

#### TENNESSEE

University of Tennessee (1A) enter for the Health Sciences Department of Physical Therapy 800 Madison Ave. Memphis, TN 38163 (Ann B. Hightower) 901 - 528-5888/9

#### TEXAS

University of Texas Health Science Center at Dallas (1A, 1B) Department of Physical Therapy School of Allied Health Sciences 5323 Harry Hines Blvd. Dallas, TX 75235 (Donna El-din) 214 - 688-2850

University of Texas at San Antonio (1A) Physical Therapy Program Allied Health & Life Sciences San Antonio, TX 78285 (Barbara Melzer) 512 - 691-4476

kxas Women's University (1A)
School of Physical Therapy
Box #22487, TWU Station
Denton, TX 76204
(Carolyn Rozier, Ph.D.)
817 - 387-5530

University of Texas Medical Branch (1A) Department of Physical Therapy School of Allied Health Sciences Galveston, TX 77550 (Eugene Rembe) 713 - 765-2901

#### UTAH

University of Utah (1A) College of Health Physical Therapy Program HPR N-200, West 121 Salt Lake City, UT 84112 (Carolee Moncur) 801 - 581-8681

#### VERMONT

University of Vermont (1A) Department of Physical Therapy School of Allied Health Sciences 305 Rowell Bldg. Burlington, VT 05401 (Sam Feitelberg) 802 - 656-3252

#### VIRGINIA

Virginia Commonwealth University (1A) Department of Physical Therapy Medical College of Virginia, Box 224 1201 E. Broad St. Richmond, VA 23298 (Susanne Hirt) 804 - 786-0234

#### WASHINGTON

University of Puget Sound (1A) Physical Therapy Program Tacoma, WA 98416 (Suzanne L. Olsen) 206 - 756-3180

University of Washington (1A, 1B, 5) Division of Physical Therapy Department of Rehabilitation Medicine RJ-30 Seattle, WA 98195 (JoAnn McMillan) 206 - 545-7408

#### WEST VIRGINIA

West Virginia University Medical Center (1A) Division of Physical Therapy Room 1195---BSB Morgantown, WV 26506 (Sandy Burkart)

304 - 293-3610/11

#### WISCONSIN

Marquette University (1A) Program in Physical Therapy 2611 W. Wisconsin Ave. Milwaukee, WI 53233 (Richard Jensen, Ph.D.) • 414 - 224-7161/7194

#8 - Bachelor and Certificate Programs

University of Wisconsin (1A) Courses in Physical Therapy 1308 West Dayton St. Madison, WI 53706 (Mary Jane Meng) 608 - 262-2046

University of Wisconsin at LaCrosse (1A) Department of Physical Therapy 243 Crowley Hall LaCrosse, WI 54601 (A. J. Santiesteban, Ph.D.) 608 - 785-8470

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## #9 - Master's Degree Programs

## ACCREDITED MASTER'S DEGREE PROGRAMS

The following programs offer an entry level master's degree which does not require an undergraduate degree in physical therapy.

#### ALABAMA .

University of Alabama in Birmingham Division of Physical Therapy Birmingham, AL 35294 (Marilyn Gossman) 205 - 934-3566

#### CALIFORNIA

Stanford University Division of Physical Therapy School of Medicine Room TA 103 Palo Alto, CA 94305 (Helen Blood, Ed.D.) 415 - 497-5795

University of Southern California Department of Physical Therapy Rancho Los Amigos Center 19933 Érickson Ave. Iney, CA 90242 (Helen Hislop, Ph.D.) 213 - 923-5591

#### MASSACHUSETTS .

Boston University Department of Physical Therapy Sargent College of Allied Health Professions University Road Boston, MA 02115 (Catherine Perry) 617 - 353-2720

#### NEW YORK

Columbia University (5) Courses in Physical Therapy College of Physicians & Surgeons 630 West 168th Street New York, NY 10032 (Ruth Dickinson, Acting Director) 212 - 694-3781

### NORTH CAROLINA

Duke University Medical Center Department of Physical Therapy POB 3965 Durham, NC 27710 (Robert Bartlett) 919 - 684-3135

#### TEXAS

Texas Women's University School of Physical Therapy Box #22487, TWU Station Denton, TX 76204 (Carolyn Rozier, Ph.D.) 817 - 387-5530

#### - WASHINGTON

University of Washington Division of Physical Therapy CC 814 University Hospital Seattle, WA 98105 (JoAnn McMillan) 206 - 543-3116

## U.S. ARMY MEDICAL DEPARTMENT

U.S. Army-Baylor University Program in Physical Therapy Academy of Health Science U.S. Army Ft. Sam Houston, TX 78234 (Betty Landen, Col. AMSC) 512 - 221-5187/4457

#### Write:

Commander USAMEDDPERSA ATTN: SGPE-PDM, Major Cronin 1900 Half Street, SW Washington, DC 20324

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#### NEURO- AND BIOBERAVIORAL SCHENCES PROGRAM

Medical students or other graduate students may pursue the M.S. in USU concurrently with a five-year Medical School Program or another graduate program and receive both degrees coterminously.

For additional information, address inquiries to the Program Administrator, Health Services Research Division, Department of Family, Community and Preventive Medicine, School of Medicine, Stanford University, Stanford, California 91345

# NEURO- AND BIOBEHAVIORAL SCIENCES PROCHAM

The School of Medicine offers an interdepartmental program leading to the Ph.D. in Neuro- and Biolochawioral Sciences. The Program is deduced to provide broad, consprehensive, and signous training for a limited number of highly qualified graduate. students.

Three categories of students are eligible for the Programs (1) non-medical graduate students, (2) postdoctoral fellows who, after completion of the M-D. degree and each approved internship, wish to enter residency training in neurology and to undertake a minimum of nine quarters of nonclinical academic work above and beyond the required three years of clinical training: (3) medical students having sufficient had ground including a baceaboarcate degree, to enable them to meet the converequirements of the Program concurrent with the method corriculated as that there completion of the M.D. Program they only need add-the amount to time awa ta the ayears) necessary to produce an acceptable thesis. The titting of their program may be adjusted to fit in with their special circumstances.

For further information regarding the Neuro- and Biobehavioral Sciences Program contact Eric M. Shooter, Ph.D., Department of Neurobiology, Stanford Medical School, Stanford, California 94505.

### SOCIAL SCIENCES—HEALTH SERVICES

Program Advisor: CLIFFORD R. BARNETT, Ph.D., Fediattics and Anthropology Departments.

The Departments of Anthropology and Sociology at Stanford have much to offer the medical student in concepts, methodology, and findings relevant to socio-medical research and the development of health care systems. Student with opt for a first year M.D. Program may pursue a combination of course work and menarch healing to the master of arts degree in anthropology or sociology. Course work and research are tailored to advance the special interests of the student (e.g., adapting medical care to special populations in the U.S. and overseas: non-Western curing systems; population control, community psychiatry; and social and cultural factors in disease etiol ary and prevention). The degree program usually can be completed during two vers of part-time work (including one full-time summer). Students may also pursue work in anthropology and sociology without committing themselves to a geodesite degree program. For addational information, contact Clifford R. Barnett, Ph.D., Fiches et Anthropology, and Professor (by courtosy), Pediatrics.

#### DIVISION OF PHYSICAL THERAPY

Director: HELEN BLOOD, Ed.D.

Adjunct Professors: HELEN BLOOD, BABBARA E. KENT

Assistant Professor: JOHN M. MEDERIOS

Clinical Instructors: HAZEL V. ADKINS, KATHLEEN BICE, DONNA J. BUIEF, LANDA FREEMAN, FRANCES LUPI, MARGARET V. PETERSON, FRANCES L. PATTON, ROSALIE LOPOPOLO, ROBERT SIMPSON, PAULA SEINNER, DIANA STRUMM

The Division of Physical Therapy in the Stanford University of School of Medicine offers a master's degree curriculara for student anatoring the field of physical therapy. The program encompasses two a adamic years (6 quarters) and a summer internship

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DR. ARTHUR KORNBERG, M.D., PEOFESSOR OF BICLEFMISTRY AND NOBEL LAUPEAUE, ON THE WAPDS AS IN THE LABORATORY, THE EXCITEMENT OF INVESTIGATION TERVADES MEDICAL EDUCATION AT STANFORT

between the two, and includes basic courses required for state life usure. Stud-has must complete courses required for state lieva and, one-of the three advanced study areas and research requirements

Most classes are hold at the Stanford Model, Conter, Students have thus and three-week periods of directed clinical experience at Stanford Hospital and allike d health facilities in California during the first year, a fell-time assignment during the Summer Quarter, and a four-week advance endewedlip in the spring of the second

year. Requirements for admission are a base all create degree, completion of prerequisite courses, filing of an application including scores from the Aptitude Test of the Graduate Record Examination by Jane by 15, and, upon request of the Division, a parsonal interview. Applicants will be considered with all organizers, color, cread, religion.

Yex, age, or national origin. Students are admitted Autumon Quarter each year. Detector registration and general information will be found in the University Bull tim Information.

autornation will be found in the Carveysity real an optimizing physical set. Basic preroquisites are courses in hanon matoray, human phy fology, chemistry, physics, psychology, nock-logy, and statistics. Mathematics, biology, and courses in oral and written communication are highly recommended. Each student's a schemibackground will be reviewed on an individual basis for admission.

background will be reviewed on an opinionial back an informal in required convex As part of the physical therapy program, student's will enroll in required convex offered by other departments in the Medical School and other schools in the Univeroff, Electives related to the student's program to a bescheeted primarily in the second way. Electives related to the student's program to a bescheeted primarily in the second

year. The curriculture is once directly the American Physical Therapy Association. For more left machinesse the Stanford University bulletin Courses and Degrad Stations.

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the School of Medicate was established as a partment of the University in 118/5, when the oper Medical College in San Franci co was uired by Standard University. Until 1959 fical teaching and some teaching of the basic ducal sciences were carried out in San Frano, while the remainder was conducted on University computenear Palo Alto.

a 1953 the Trustees of the University deterred that the School of Medheme should be could ad on the University computer a new littles. Foll wang the development of a new gram of medical education, and the conaction of the stanford Medical Center buildshor teachest, research and patient cure aties, the School began its operation of State University 2054

 currently second the School of Methods Catstated as collows.

e continue are sceptionally strong participain the intellectual life of the University as a det include grount enter hyciplinary resch and what is involving the interfaces beis the phone at and social sciences and hence

a maintain as artensive, individualistic probual medicies education, which emphasizes entifies browned, e and probasional excelresult for excedient student, gradients, and tgraduate low ds

b preserve present strong communication functual connectors research and the eduenced medical sciences to develop viewer animents of received related to the codic base and professional practice of heim.

he School full yes that the goals of the ford Plan of Medical Education are best eved if cash student can plan his or her culum within a flexible educational system. thich the diversity of students' career made educational backgrounds is recognized. lingly, in 1955 corriculationanges were an fueed which provided each student with iroum flex, bility in formulating an indinalized currentling that best takes into a nt the stutes is past experimence and lature er goals courses adv have adv have courses opinite knowledge the state opinite knowledge the state opinite knowledge the state opinite the state opinite opini lents are encouraged to take advantige it icular offerings on the University Campus ell as in the School of Medicine. The data லிழியா பான ⊺ன 9 . K

completed appropriate graduate work or maclude as many as eighteen quarters for students who include extensive research experience Students interested in combined M.D.-Ph.D programs next first apply for admission to the M.D. Program. Subsequent and separate typhcation to a specific department is then required for candidary for the Ph.D.

Provided an applicant to medical school has completed the basic courses in physics, chemistry and bology, the choice of an undergraduate major may reflect other interests, including the arts and humanities. Course work in mathematics and the behavioral sciences is highly reanno-inded because of its importance in under standing medicine. Extracurricular activities and breadth effiniterests and experiences play as important role in the selection of students from among those applicants having seperior academic record. The general requirements to admission are in the Medeal School Endern For application materials write: Chairman Committee on Advassion, Stanford University School of Medicines, Stanford, California 94305

# ALLIED MEDICAL SCIENCES

## DIVISION OF PHYSICAL THERAPY

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#### Dear is the the

Alexander Problements Helen Brood, Barbare I Acess

Assistant Professor, John Medeiros

Senior Lecturer Katherine F. Shepard

Lectur is Valerie Coon, Rochelle Parker, Gw L. Baymond, Katharine B. Robertson, Terry L. Santord, Linda VarHoesen

Come d'Associate Professor, Cotharine Graham

- Clinical Instructors, Hazel V. Aslkins, Kathleen Liess, Joan M., DuVal, Linda Freeman, Etablee Linn, Logiano B. Org, Frances I Patron, Robert Simpson, Paula Skent & Diana Stunal
- Princi et Consultanti, John L. Bell, Conreal Assochare Professor, Disciel S. Burton, Asastat-Bornes, Princi Consultation, Asastati-

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The Division of Physical Therapy in the Stanford University School of Medicine offers a Master's destree curriculum for students entering the field of physical therapy. The program encompasses two academic years at quarters and a summer internship between the two, and eachdes basic courses required for state licenbare. Students must complete: the courses regained for state herms are one of the three adpanes d study areas -Admenstration and Community Health, Carriculum Development and Instruction. Approaches to Neuro-muscular Desfunction, and research requirements.

Classes are neural in such therapy lecture (center, which houses physical therapy lecture (khoratory, seminar and rese, ich rooms, Students have a two- and three-week period of freeted clinical experience during the first beat, a ten to twolve wer' internship during summer quarter, and a fear week adapted internship during the prime of the second car at (stanford Medical Center and er affihatate leath care facilities in Cast area. This clinical sequence provides the opportunity for students there toward the bull utilization of their throwledge and shifting weak that planning and thappenenting physical therapy program.

The curriculum is according to the Asacrust Historial Thorapy Asacrustication and the Courter of Medical Education of the American Medical Superioration

#### ADMISSION

Requirements for adhess on an e-los relativate degree, com h-less of prevenusite renses, his g of an apple after recluding scortion the Apptude first of the Commute factor basination. The apple in a court be comtheted by january 15 m the court be commutation and than 17 to The last possible Graduate Record Examination that could be denoted used the state prior Distember. Upon request of the Division, a personal interview, and completion of supported by admission tests and forms may be required applicants will be considered without regard to are, color, creed, religion sex, age or national 5 min.

Students are admitted automic quarter en a lon. Dates for recostration endermend adort Son will be found at the transmission Indiana of the University.

TRAINTENHIPS, SCHOLARSHIPS, AND LOANS

the Division of Physical Therapy mited and vacy from year to year.

The Marian Williams Memorial Scholarship : is awarded each year by the Committee, and a few private agencies offer special scholarship. for thysical therapy students.

The Western States including Hawaii and Alaskal without a physical therapy program provide part of the tuition of legal residents through WICHE (Western Interstate Commission for Higher Education).

The Stanlord Information Bulletia lists the long-term loan policies of the University and the details of the National Defense Student Loan Program

#### PREREQUISITES AND OTHER COURSES

Basic prerequisites are courses in humaenations, human physiology, themistry physics, psychology 2) sociology, and statis to the Mathematics, hology, and course in oraated written communication are highly recommended. Each student's academic backgroune will be reviewed on an individual basis for adhalf-anal

As part of the physical therapy program, studentified will encould in required courses offered bethe Dasisian, other departments in the Medice school and other schools in the University File by a related to the student's program mabe edge ted primarily in the second year.

Graduate students from other department an attend courses in the Division with the result of the instructor. Any one of the tr howest courses may not be other 1 is an insult court number of students enroli

#### COURSES

#### Victoria - LiRiX

226 Ruman Motion and Therepeutic Proce daress 1 anchoral disatomy: "seess-channess body motion, analysis and practice of therapey tic exercise procedures, tests for and evaluate of physical disability, prosthetics and ortholic and bacast medical lectures in specialty area with roop basis on problems of patient care

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221. Ruman Motion and Therapoutic Proc duries the Continuation of Herizan Motion at 3. enapendic Procedures I. Proceedings (220) 4.6 units, Win Kent Studies

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222. Human Motion and Therapeutic Frisdures III – Continuation of Ibrace Motionar Therapeutic Procedures II, Paris process 2, 8 a

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Cling al Fleetromyography---Clinical ap ion of electrometographic procedures and iques

Lits, Win, Spr. Robertson arrangement

Clinical Medicine-Lectures, demonstra ind discussions presented by pathologists, ologists, and medical and surgical dists with emphasis on abnormalities, The disease or trauma, which produce or bute to disorders of movement. nits, Spr 🍊 huse and TTh 1:13-3:05

Directed Cibical Experience in Physical ipy 1-Stomats are assigned for a select I full time foring a portion of the quarter dth care facilities for a clinical laboratory. tes ethics and selected basic skills. units, Kent Staff by artangement

Experience on the scalifierapy 1, Party Misiter 

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247 interactory in Physical Therapys Starlints are assigned to freatment touldes to full-mus claudi experience. Projequestes 221, 127, 244, 245, 256,

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245. Advanced Internship in Physical Therinv - A maximum related to the Advanced story Area planned by the student advisor and mereptor from an approved clinical facility. Precessionsi 244, 245, 247 and 2 quarters of olivania Il study

s units \_ staff by arrangens of

250. bodal and Psychological Aspects of Illness and Divisitiv-operal problems related to neurone to Phess and de oblite, putientthe oplet relation dups: euphasison total needs of the wetent as related to his unique life style.

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251. Early Childhood Screening Leature hour or, endmixation of public health clinic screening processes and cultural consideratives in child the comment followed by field experistars to fares public health clinics.

2 unit - Samond' in arrangement

257. Organizational Behavior and Physical Therapy--Interpersonal and inter-professional relationships, leadership styles, groups dynamics and related areas and the application to pressed therapy:

3 un to Set (Shepard by arrangement

255. Special Topicso-Current issues and problems related to developing physical therapy knowledge, techniques and practice. 2.5 wats, Win (Staff TTh 3:15-5:05)

259. Organization and Delivery of Health Care-- Basic concepts of organization and delivery of physical therapy in relation to total health there includes budgeting, supervision, consultation, and regulation.

3 units Aut Sanford) MW-1000-11-30

#### ADVANCED STUDY AREAS

Courses 244, 245, 247 and their prerequisites must be satisfactorily completed before enroffment in the Advanced Study component of the program. Courses listed between 260 and 255 are related to the Advanced Study Areas. Students must select and complete conrises to one of the following areas

Administration and Community

Health 200 201, and 262

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Curriculum development auf Instructione ST 256

260. Administration and Community Health in Physical Therapy I region planting. budgetung, ist and a scheden and the ut techniques, systeme to the enjoy if health care. community strategies a subject source internal. legal and political unpacts on care. Includes projects and Sold work

A mars and tolon in and by area and

261. Administration and Community Health II-Continuation of Administration and Commonity Health I. Increase Ato 200 4 mats, Will The

By arrange same

262. Administration and Concurrents Health HI-Continuation of a second state and toge-

monity Health Land D na o ceñera la 2 units, Spin Pice."

265. Advanced Approvalety to Seuromuscelar Dyslunction I New Law races " growth, development, and a sectors to re-prological dysfunction, in take one physiological and his tional ramos atoms of pathology patient evaluation, all and i is treatment appres hes.

4 units, Aut. Raumon," by arrangement

266. Advanced Approaches to Neuromuscular Dysfunction II-Contingtion of 265

4 units, Win Bonness Interransement

267. Advanced Approc. he to Neuromuscular Dysfunction III---Centered and 265 and 264 2 units, Spi Tanges of the arrangement

270. Advanced Applitude hes to Musculoskeletal Dysfunction I- Advanced Energiegy and bomerhants, and epilesteats of selected evalua tion and treatment proceed area for patients with musenioskele ai dishur te n

4 units, Aut. Staff 1 a a rangement,

271. Advanced Approaches to Musculoskeletal Dyslunction It- Contrantion of 210.

4 units, Win Staff in arrangement

272. Advanced Approaches to Musculoskeletal Dysfunction III -- Continuation of 270 and 271. 2 units, Spr. Staff by arrangement

275. Curriculum Development and Instruction in Physical Therapy U-Learning theory: objectives, content and evaluating of courses and curricula directed teaching to selected

areas 4 units, Aut. Shepard, by arrangement

276. Curriculum Development and Instruction in Physical Therapy H - Continuation of BIOCHEMISTRY , 539

277. Curriculum Development and Instruc-tion in Physical Therapy III-Continuation of 275 aud 276:

2 wats. Spr. Shepardi by arrangement

278. Directed Leaching-Practicum in teachmy physical the saw in professional, academic, and charactic sucation programs and or physical ther plats assistant curricula.

1-1 water Win, Spr (Shepard, Staff) in arrangement

285. Individual Work. 1-5 units, any quarter Staff. by arrangement

#### RESEARCH COURSES

Pressue à requirements of the Division must be satisfied by completing 291.

290. Seminar in Research-Basic principles of research with emphasis on material applied to physical flortapy

1-3 mets, and quarter Staff. ing a sentence to the

201. Research. 1-10 units, Terrary any quart r St. If by arrangement 1-5 units, 1975-79 any quarter Staff in arrangement

# BIOCHEMISTRY

Charman L. Robert Lehman

Proj. 6.4. Robert L. Baldwin, Paul Berg. David S. Hogness, A. Dale Kaiser, Arthur Kornberg, I. Robert Lehman, George B State

Associate Professor Ronald W. Davis

Assessment Professors: Douglas Bruthag, Jame Entiman

Consulting Professor: Abraham White

Senior Lecturer: Carl Blodes

# OFFEBINGS AND FACILITIES

The Department of Biochemistry, located in the Stanford Medical Center on the University campus, is part of the Graduate Division of the University and a department of the Medicy School. An introductory course series in generabiochemistry Biochemistry 200-201) is taugh hy the entire staff as well as a number of guesslecturers. The sequence consists of both base lectures, intended to provide all students with ... rigorous background in biochemistry, and speend lectures enabling students with varies a distant tomes in depth. Medi



S. (1) Londations Workin a Department New mere, have shapper charactering a condensation of the resulted toward the A-B, degree with end press operations of the and a function of the part of the second second second states and the second second second second second second and least 111 must be in the College. To say we prove that the and reprise equal in The complete states A.S. degreet

# LOR OF SCIENCE WITH MAJORS IN THE SCIENCES

against the long to past departments in the Division of Statural Sciences and Mathema eral at the most of eading to the Rips degree femeral international that many entering discussion is whether to wark for the All or B - dennes, each department has to make the contenent program of the two degrees almost that the student will not have to eventual of an indicatine second year. Each department is ready to a huse indents as to is a send to kniggest a schedule that will as de it possede to complete the නෙස හා සහ වා

# 21 OF THATS AND BACHELOR OF SCIENCE IN JFER. M

the structure of the contract that the set that can there concarry also to of score and a therefore meeting to partments. There and a therefore arts degree 1. the tool is the structure distory, mathematics, phassophy, or religion. Additional y perputsion a topetion is upon the enditioning discipling on which the student is enrolled. val of acts is the minimum requirement for the degree is 169 units

non to all defined requirements listed for the packetor of science degrees an half specific ints of the selected of announced and the collowand requirements must also be thete 2, special of a dimension, logic, or linguistics, 4 units primanities, 4 units each in arts, and physics of the agion: history, other than United States, 4 units; major field, 23 upper ants.

its enrole a numer Three-Two Plan will be under the direct and continuous guidance of the epartment in endine cong and the LAS Advisement Once

# ELOU OF SCIENCE WITH OTHER MAIORS

#### Dentstry

is any restance of a the degree.

REAR AND AN ANCES WOURLAWN \*\* 96 units

coving requirements include the courses in chemistry lengthsh, physics, and biology readmission to the School of Dentistry of the University of Southern California.

IDU. ATA NEEDUREMENTS AS LISTED FOR THE A.R. DEGREET

General Pequirements ('courses) Elumanities (5 b) 4 (Burses)\* Social Sciences (3 or 4 courses)"

I SETTINES

v 1050 iš

S. Ky as a total life to units in Letters. Arts, and Sciences

25 units in Diding 12 or more on the upper division level, must be taken in the sollege after s to prove successful Upper division units carried in the Scheol of Dentistry may not be used his requirement

BACHERORCES I. A ATHOTHER

VRS

31

#### MARCS RECTURE de la Martin Denustra

the match registernation accessing for the B.S. degree is not by song eting in the School of Dentist chall the terminal constraint second year, or the DDCS, ournealum,

#### Page NeX off Agent to

และเหมือย่าน้ำ และสามจะก Provide regenal therapy parent are open, inly tastudents with senior standing which ave been experimental to population of the application to the department is required and must be accessed by January 2.

#### GENERAL FULL ATION RELEASE MENTS AS LISTED FOR THE A.S. DEGREE\*

Group A. General Logic process, 5 courses Group B, Humanines 4 or a Group D. Social Sciences courses

the General Education in Commu-CEPPER'S TEACHER

Protoci 301 or r. 1 s. Piel Sci 512

Pstch 209 tmat be dealed to the 1429 Parch Monor Parcel Ser Psy. 5 191

time addatestial course is a second operation.

OCCUMENTAL AND S

Oct. Ther all 415 425 44 44-54 4-54

Dre Ther Assession and desires rescargement of the American Meanational Inerapy Association for Certificate and Reconstrained

ELECTRY's to make a total of US anits.

Enrolment in occupational thenapy courses is limited to students selected by the Department of Occupational Theory with a mose tresplected who possess the qualitication necessary for successful · practice as a registered oscillational therapist

A.M. DEGREE AND GEREE. SHE IN OLCUPATIONAL THERAPT

Applicants must enter we called or's degree from an do resided college

#### PRIME PUSTI ACTIVITY

"Human Anatomy with labor new "Human Physiology with the priory Introductory or General Case and an Introductory or Cleveral Section Abnormal Explosiony Human Growth and Development

#### PLOTIRED CHRSLS

See the bulletin of The Fig characterischool for detailed requirements.

#### B.S. - PHYSIC M. THERAPY

A total of 137 units is required. Physical therapy courses are open only to students with senior slanding who have been a letter i by the department. Supplementary application to the department is required and must be completed by January 2.

#### GENERAL LDUCATION PROBLEMENTS AS LETTED FOR THE A R. DEGRET \*\*

Group A, General requirements in all courses of English composition Group B. Humanata St. 1997, 199

Obtain Departmental application to togestic ring for the scourses "Servieweral Education Researchers

#### NSTRUCTION. 150 COURSES [

Health Education Workshop (Ed CI 581)

582 Performance Analysis Laboratory: Team Sports (2)

583 Performance Analysis Laboratory: Modern Dance (2)

584 Performance Analysis Laboratory: Ethnie Dance (2)

586 Theories and Principles of Physical Conditioning (2)

587L Seminar: Advanced Exercise Physiology

# PFFSICAL THERAPY

Protector 18 Ion I. Histop, Ph.D. data and Charman (

Assign to Leave is Margaret Bryce, M.A., Lenore Krowell, M.A.

Climital Associate Proviseds' lacqueline Montgomery, M.A., Lorraine Ogg, M.A., Frances Pattor, B.S.

As issuit Processes Phyllis Browne, Ph.D.; Janet Duttarer, M.A., Ardith Meyer, M.A.; Helen C. Ziler, M A

Cini al Asasto'i Crossers, Hazel Adkins, M.A., Daniel I. Antonelli, M.S.; Claire Beekman, M.S.; Centle Unorave, M.A.; Mary Katio Callis, B.S.; Austin Grigsby, M.P.A.; Dorothy same ranker. B.S., brenda Lonstor E.M.A., Linda Matsuno, B.S.; Sharon Nichelas, M.A., Thel art, Ott. B. S., Beverly J. Paquet, 3 S.: Patricia I. Pechtl, M.A.; George C. Walters, & M.A.

sustractore Marybeth Brown, M.A., Cynthia Moore, B.A.: George Volto, M.S.

Classical between the lower transport and bell, M.S., Maxian Hall, M. S., Shaller Lower, J. B.S., Scott Irwey, B.S. Telemas Reine, Elis, Neverly, Toyana, Elis,

Learners, Charles J., Lowman, M.D., Se D. J. & C.S.

Frendres I. and Margaret - wood, M.A.

401 Normal Human Structure and Kinesiology 150

Normal Luman anatomy and kinesi dog, with emphasis on upper and lower extremotes, trunk, head and neck/ cadaver dissection.

#### 402 Human Physiological Support Systems in Exercise (3)

A survey of normal human physiological responses to be errise and environmental changes. Quice d students may substitute Di-587a.

403 Human 1998 Sequences (5)

Surveyed Bounds senses metor and optical and psychosocial development of from president he through changes accompanying the againprocess.

# USC -

586L Physiology of Exercise and Aging

589 Seminar: Exercise for the Aged

591 Research Seminar

592 Seminar: Adapted Physical Education (2)

593 Elementary Physical Education for the Atypical Child (2)

595 Seminar: Analysis of Human Motor Performance

432 Fathology of Musculoskeletal System (3) 

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gase and injury amoung muscle, bene, joints and connective tissuest

433 Selected Applications of Environmental Physiology to Putient Care (2) Physiological responses to temperature, electromagnetic and mechanical energies. Lecture and laboratory

434 Principles and Practice of Therapeutic Exercise in Musculuskeletal Disorders Pathokines. Jogical orinciples in patient evaluation muscle testing goniometry physical examination, gait, and runctional analysis, patient managements including program planning special approaches to exercise, orthonics of prosthetics.

435 Principles of Clinical Investigation (2) Hementary staustics: overview or research methodology experience in critique of research. papers.

475 Psychosocial Effects of Physical Deability (1)

Exploration an problems related to the behavioral, em-tional and social aspects of disease and dischifts. Special consideration of me derpersonal plan exclusive between patient and timerates t

495ab Christel Athlation (1, 7) within a met ordon or depression to thatheast mana seneral sub-fed flow

502ab Desection Anatomy for Therapists (12)

593 Neurosciences

504 Clinical Neurology for Therapists 13)

505 Human Physiologic Support Systems in Desalshity

595 Clinical Systemic Physiology and Berry d'l'a the

#### AL PHERAI

511 Neurophysiology in the Treatma Neuromuscular Dysfunction (2 or

522 Neurophysiological Response Mechanisms in Therapy (2 or 4)

525 Principles of Management of Ph Therapy Services (3)

528 Practicum in Patient Care (1)

530ab Objective Measurement of Ph Performance (3-3)

533 Electrotherapy (2)

534 Principles and Practice of Therap Exercise in Neurological Disorders

540 Principles of Clinical Education

553 Gait Analysis, Observational - G

559 Readings in Physical Therapy (1-4, max 8)

560 Physiology of Nerve and Mussle (2)

561 Independent Study in Electrophysiologii Measurement

563 Biomechanics (C)

565 Neurophysiology of Notic.

570 Practicum in Teaching and in tru-Media (1-5)

575ab Seminar in Physical Thera

Toab Seminar

557ab Physiological Christates 61 (11) L vercise (4-4)

595abed Practicum in Advanced 6 in Physical Literapy (13-3-1)

ethical consideration in the delivery of health. care

420, 422, 424, 426 Practicum in Patient Care (1-1-1-1) Chan dimstruction and lateratory practice in patient settings - quadent d'als-

410 Introduction to Health Care Systems and

Examination of community researces, the mul-

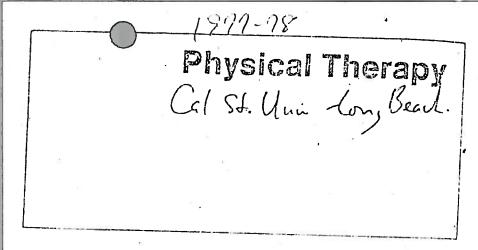
tidisciplinary approach to patient manage-

ment, patient-therapist relationships, legal and

#### **J31** Pathok mesiology

the Patient (5)

Distortianties of monace, service insport monowith a special second conservation and a second page. outor i creto" di catal tece



Department Chair: Dr. Frank J. Box

Professors: Pok, D.D. Williams,

Associate Professors: Morris, Neilsen.

Academic Advising Coordinators: Dr. Frank J. Bok, Dr. David D. Williams (EOF and Minurity)

The physical therapy curriculum is designed to enable students to become an integral part of the medical rehabilitation team as practicing physical therapists in a variety of clinical facilities. Appropriate science, professional, major and clinical experiences are provided. Successful completion of the major and of degree requirements loads to a buchnetor of science degree. Successful completion of the program cudatter one to write the State of California exacultation to practice as a physical therapist. The program is approved by the American Medical Aspeciation in cultatingtical math the American Physical Therapy Asponation.

# Protessional (Baccelaureste) Program Regultements

Because admission to the program is limited and sublicated where the admission is on a competitive basis. Admission to the competitive basis. Admission to the competitive basis admission to the program. The following centres of leta one admission to the program.

Application for Admittance to Professional Program

After being admitted to the University students muct file an appropriate supplemental application (obtained from the Physical Therapy Department) with the department. The application must be filed as follows, for currently enrolled undergraduates, during the semester filey anticipate having earned 45-60 University creates, they are eligible for enrollment in the orientation course (F.T. 210); and for transfer students, at the time of registration if they have earned 45-60 University credits, they are eligible for enrollment in the orientation course (F.T. 210); and for transfer students, at the time of registration if they have earned 45-60 University credits, they are eligible for the orientation course. For opplications to be considered complete and valid applicants must ment the blowing stipulations.

- 1. Include an information requested as the truthfail
- 2 Include transcription at aduidemic work attenuoted at high vehicle and college.
- 3 Be physically well in order to darky out typical rach solars expected of working therapists.

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17

- Be emotionally well in order to cope with the typical case loads of working therapists.
- 5. Beliess Ihan 35 years of age.
- Demonstrate satisfactory potential for success in the program as disclosed by previous academic success in all college work attempted.
- 7. Demonstrate eatistactory potential for success in the program as disclosed by previous academic success in sciences and other program related credits earned. The following sciences and their semester unit values are the CSULB science prerequisites to the professional program: (Note that grupes of 5 or better are required and that all courses except psychology must have laboratory experiences.)

Cerrun				Units
Anatom, (human), Biology 202				3-4
Diotony general, not biological or life science)	, Bro	logy 2	200	3
Chemistry (norganic), Chemistry 200*		36.95	2	18 <b>4</b>
Chemistry (organic), Chemistry 200*	3	52		48
Chemistry (biochemistry), Chemistry 300		1012255	×.	4
Physics (survey), Physicc 104	10.00	80		4 10
Physiology (human), Biology 207	e:			34
Psychology (general), Psychology 100		244	$\mathcal{T}$	3°
Psychole (y (abnormal), Psychology 370	法面			22 - 12 
Psychology (disability), Physical Therapy 374		·	. 105 -	3
Demonstrate substactory success in the held b	y do	cume	ented	previous
work experimede in physical therapy or some other	r hea	eith re	lated	area.
Many on more fallow conviction in the State	ol	Calle	rnia	of other

J. Have no prior felony conviction in the State of California or other jurisdiction.

Requirements for Admittance to Clinical Practice

- Complete or have in progress all other repuriments for the baccalaureate degree end-or major active time of application for odmittance to chincal cractical.
- 2. Earnial, 1992 each carblessa la course attenuted
- 3. Successfully on ordered completence diventity examination

Bachelor of Science Degree in Physical Therapy (55 units) (code 3-1225) Lower Demon Physical Therap, 210

Upper Duration Click of 2011, Clickmentry 360, Physical Therapy 360, 320, 251 252, 311, 314, 311, 431, 440, 47, 6, 472, 473, 4854, B. Psychology 370

#### Lower Division

8.

210. Orientation to impaired Thorapy (1) F. S. Dinck, Carlstrom, Hammer, Morila, Nielsen

One-table to the first of physical thetable

### , the state of the state Joper Divisi

#### 300 Human Analomy for Therapists (4) F. 5 Williams

Freiegusste Hidmittance to preterministic pressure et rame freien Regional et anaunstantial therapists including participation of the manufactory and participation and over ted human specimens. Let the Elbert operation and

C'EU - Cal

#### 3.3 A; alted Kinosiclogy for Therapistal (4) F. S. Bok, Morris

terrige des Praysmak Cherage 2011, monsterning a report - Princip es of America (es. 

#### JS1. Physical Therapy Procedures 1 (3) F, S. Bryant, Long, Wetzler

Receiption to Physical Therapy of the new technic concurrently) and coresent or role of a Principles and learn dues of click of care introduces and hydroarerap. and traction modedures. (Lecture) Lin Arrillia, and the Endorse

#### 353. Physical Thorapy Procedures II (3): F. G. Bryent, Long, Wetzler

chies Physical Therapy, 10 and consist is subjectly. Pre-obles and proconstruction and procedures, in call the second structure procedures and procedures, in call 1.11 bilisers condition [ fotors rabionator, circles,

#### 271. Obnical Lectures 1 (5, F.S. Faculty

÷. a di di Mandali Mandala di Mandala Kentana di ketera kangan sa jariwa k s is and of purpose in printing of the research the proving theory 1. S. 1 · · · · · and the state of the state of the second strength and the second strength of the second strengt ot the second stre a planet the had to brack which was not a grad provide a grade

#### 374. Psychology of Disability (3) F. S. Rabin

Harris under Hoyonology MCD. Analysis of including provide providery doctorer errors. Consideration of reaction to that any strength of the on-see terns if and the psychological colored plants product which the state of factors distant hade to upplice promotion and in performantials montributions to reach a forget on a 1922

#### 330. Cligical Applications (1-4) F, S. Bok, Morris, Nielsen, Faculty

Environmentes. Provisioal Therapy 320 and content of a structor. Supervised experience in variable of the republication facilities due the which the student acquires, through operation tion and participation, clinical insight and exclusion and the procedures and practices in 5 O 1250 1 11 1 A 14 A 1

#### 430. Physical Therapy Procodures III (4) F. S. Morris, Nielson

Present meet. Physical Therapy 320 and contend of instruction Principles and tech maniference of design and assistive devices as applied to the prevention and correction Closure disability including methods of evaluation. Resture a fourt, a brinding P 1 4.41

#### 431, Physical Therapy Procedures IV (2) F. S. Morris, Nielson

Prerequicites. Physical Therapy 430 and noisent of mono+lon. Advanced therapeutin principles and procedures, including appropriate evaluative techniques. (Lecture 1 hour, (appraining & hours )

440. Officiality, Administration and Supervision (2) F, S Hammer Prerequilities Senior standing in physical therapy and consent of instructor. Organization, a magnation and supervision of physical thirrapy departments in various clinical enil ant.

#### 445. Modern Trends In Physical Therapy (3) F, S. Bok, Faculty

Prendamle, Consent of instructor, Designed to bring to the active and mactive therapist codated information on trends, procedurely and practices

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460. Neuroanatomy and Heurophysiology for Therapists (3) F. S. W Prere tosting it is the treated sold area consert. A constructor Contention of neuroanatomy wells pathetic as summary, treated by threatest inductions in urs. laboratory 3 4: 1. 115

in, sical inulariv

#### 472. Clinical Louisnes II, 12; F.S. Faculty Previousles in a literary state part of the set of the state of the st counce medicial is a participate explaining as the second second if endpost in the management et entre et the equoritie at the state they are will specific teference to arthrefs, amplitude in an a force, that and consendal cells mith a

Pren autoria i a segurarga, 47.º ar trabar i ano guartar Pathe ara, coment 473. Clinical Lectures III (2) F, S Faculty course lever call as a consider parample, stores and the rate of the physical P cratist in the management of the electric practication and skin only thous

485A.B. Clinica Practice (3.3) F. S. Nielson, Faculty Fight tracks the structure of the n Commentation in the second second

# 450. Spucial Station, (1-3), F.S. Bok, Williams

Berns, ministration and and an antipart of Marcherener Sections makes an



Essentials and Guidelines of an Accredited Educational Program for the Physical Therapist

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#### Essentials Adopted 1979 by the AMERICAN MEDICAL ASSOCIATION NATIONAL ASSOCIATION OF PHYSICAL THERAPISTS UNITED STATES PHYSICAL THERAPY ASCOCIATION

#### Gaidelines approved 1979

Program Review Committee JOINT REVIEW COMMITTIEE FOR PRYSICAL THERAPY EDUCATION

Estentials, which projects the comparent incredited in analysis for an education tell program and provide the cycles three deals typeface. The extent to which a providence quicy allocations therefore the deals therefore include all requirements for which on consolid program is held accountable.

Guidelines, explanatory deciments which clarify the Insentials, are printed in italic typeface. Guidelines provide examples, etc., to assist in interpreting the Essentials.

#### PREAMBLE

#### OBJECTIVE

These Essentials are to be used for the development and self-evaluation of physical therapy educational programs for the first professional degree in physical therapy, i.e., baccalaurezte, post-baccalaureate certificate and master's degree. The educational institution offering an educational program in physical therapy assumes responsibility for east ring that the established Essentials contained herein will be met and maintained. On-site surveys are made by the appropriate recognized bodies, and lists of accredited programs are published for public information.

Appropriate utilization of this document in the planning and implementation of a physical therapy educational program should:

- assure the competency of the entry level therapist who successfully completes the program
- provide a guide for quality education consistent with the professional standards of physical therapy and the standards of the institution of higher learning
- -3. assist in the development of a new educational program to meet accreditation standards

#### DESCRIPTION OF THE PROFESSION

Physical therapy requires practical knowledge of human growth and development, human anatomy and physiology, neuroanatomy, neurophysiology, biomechanics of motion, monifestations of discase and trauma, normal and abnormal psychological responses to injury and disability, and ethnic, cultural and socioeconomic influences on the individual.

Therapeutic procedures include exercise for increasing strength, endurance, coordination, and the torque of motion, stimuli to facilitate motor activity and learning in arregion in activities of daily living and the use of the once detices; and the application of physical agents to relieve pair or after physielogical status. The physical therapist practices as part of a brige and varied turn of health specialists, as well as members of the by community.

The physical therapist must be prepared to practice safely and effectively, and to a same varied patterns of responsatiity for development and revision of the individual patients therapeutic program. The physician has responsibility for there decisions, and has the prerequive of delegating various depters of authority to the physical therapist to whom the physician refers patients.

physician refers patients. The physician's directions to the therapist may be specific and detailed; or they may take the form of stending orders for all patients in a particular category or location. In still other establishes, the physician may develop the treatment plan is established; perform and report upon procedures which the therapist because are most useful. In responding to the physician's referred, the therapist must also comply with the legal and ethical requirements of state physical therapy practice are and with the recognized ethich) standards of the profession.

Because physical therapy is a rapidly evolving field it is most useful to classify competencies to be developed by the student into three bload chegories.

- Those in common usage in physical therapy sorvites three hout the country in which the student shall develop a level of skill adequate to allow safe and effective performance;
- 2. Those utilized primarily in specialty areas of physical therapy rervices in which the sub-to-ball dev., p knowledge of concepts and pri-tiples adequate to riles of concepts and pri-tiples adequate to riles of concepts and pri-tiples adequate to reless of concepts and pri-tiples adequate to reless of concepts and pri-tiples adequate to release of concepts address a
- Those usedly used in current physical therapy services but which students should know exist. They should and



to patient services; however, little skill in performance shall be expected of the average recent graduate. Inclusion of a particular aspect of practice in the list of objectives does not mean that the new graduate is expected to

#### I. SPONSORSHIP

# REQUIREMENTS FOR ACCREDITATION

Educational programs shall be located in any of the following settings:

- A. A college or university accordited by its regional association of colleges i seen lary anal, which is authorie ..... the barrahureate or higher degree and is articlated with accredited hospital(r) and continuenity health care programs, facilities and agencies.
- B. A medical school or academic heaith center accredited by the appropriate bodies, which has literal ans college affiliation and affiliation with accredited hospitalis) and community health care programs, facilities and
- C. A graduate school meeting the institution's criteria and affiliated with accredited hospital(a) and countarily health care programs, facilities and tarticles.

The sponsoring institution must provide, day through additation with a neighboring institution. Includes for initial directed clinical education, as well as necessary teaching resources and instructional expertise in the areas of basic and applied natural, behavioral, and medical science ...

In physical therapy programs involving the facilities of more than one institution, the sponsoring institution shall be the one which assumes primary responsibility for curriculum planning and selection of course content, for coordination of assroom teaching and supervised clinical education, for esblishing criteria for faculty appointments, for selecting students for admission to the program, for providing to and financial support of the program on a current and continuing basis, and for granting a degree or certificate as eviden. 2 of completion of the pogram. The sponsoring institution seeks and is granted acc. ditation of the physical therapy educational program. The sponsoring institution al o enters into affiliation agreements with other institutions for the purpose of providing needed supplementary instructional services for the students enrolled in the program.

The physical therapy educational program may be organized and implemented within one of several administrative patterns. It may be a department in a college or school such as effect health, medicine, or arts and sciences; it may be a cooperative program sponsored by two or more schools of one university; it may be a cooperative program sponsored by two separate educational institutions.

Administrative orrangements should provide the director and faculty of the educational program for the physical therapist with effective channels of communication, with the dean or chief administrative officer of the college or school in which the physical therapy program is located as well as effective channeis of communication with one or more designated physicians regarding medical matters associated with the curriculum.

#### **U. CURRICULUM**

# A. Student Supervision

The student shall be under the direct supervision of the physical therapy faculty in the (educational) program.

## Learning Experiences

The statements of goals for student competences in these Essentials identify both the behavious and the areas of content on which the long experiment must

carry sole responsibility for that phase of care. It does include that the time physical merapist sequently per spate in sea activity, and therefore, than it we prepared to carry out related responsibilities effectively.

# C. Student Competencies

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The carriculum shall be designed so t at upon completion of the physical therapy edgerational program, students will process e-impetencies in the following

- 1. Individual Patient Services
  - a. Evaluation of the problem-ability to participate in the initial planning and revision of patient treatment programs through supplamentation of the referring physican's evaluation by recognition of areas in which structure and function are abnormal and performing appropriate tests and measuren ents. The physichtig apid sinflikent die demperer er bei eine ond and the state to de their will save a second
- a sub e de la contra de sub estado estado
- c. The student must have knowledge ou
  - 1. The types of therapy that are available on I their 1993
  - 2. The indications and contraindications
  - 3. The goals of treatment including term idi-ate goals and sub-equent production of therapy as indicated by the patient's coudition and progress
- 4. A discharge plan
- d. The student shall be able to apply specific tech. riques at the loboxing structure: 1. Prep. by the treatment area
  - 2. Insiriging the patient

  - A Production and drapping of the product
  - 1. Examining the affected part for and part C. C. C.
  - 5. Treasfly the operopriate part
  - o. Applying treatment techniques effortively and safely
- 7. Striving to obtain the desired results
- e Performinge-ability to implement appropriare programs of patient treatment through the use of intelligent offization of exercise, physical agains, consider and supportive devices, and other treatment procedures and equipment designed her
  - 1. Maintain and testore strength, endurance,
  - coordination, relaxation, and range of motion
  - 2. Promote healing
- 3. Relieve pain
- 4. Improve functional independence
- f. Cognizance-ability to be cognizant of the physiological and psychological effects of ill ness, disability and the processes necessary of treatment through the evaluation, planning and Fourthnace of service. In cooperation with the tel ring physician, i' e student therapist shall select and implement promising approaches to

prevent or minimize psychological stresses for the patient and his family.

- Communication—the student shill achieve competence in intelligent and effective verbal and nonverbal communication with patients and their families, supervisors, physicians, associates and the public.
- 3. Administration—the student shall demonstrate ability to participate in major aspects of planning for overall operation of physical therapy services in a factaty or a community.
- 4 Professional growthe self-evaluation and continueung education—the student shall recognize responedulty some expansional improve its r bis own profession stonal knowledge on i shalls and foster continuing improvement of the physical therapy profession and health care.

# D. Course Work

- Each course shall have written objectives. Learning experiences shall be designed to meet the objectives. Students shall know what the objectives and experiences are.
- Rationale for determination of an imme could tout be the same for all courses. The type of degree issued free of the ended of the type of the type of a suggest provide small was completed.
- 3 The instructor must develop the content of each course in terms of the overall corricular pattern.
- An appropriate system of process shall be established. Courses shall be off red to logical sequence related to the level of difficulty and the student's professional development.
- E. Clinical Work
  - Each phase of clinical experience shift! have written objectives. Learning experiences shall be designed to meet these objectives. Students shall know what the objectives and experiences are.
  - Stedents shall have planned experiences which will provide for increasing time, depth of responsibility, and complexity of student involvement with patients throughout the corriculum.

# Des yment and Planning

The process of curricular development will very considerably in exact format among schools of different sizes and administensive structures. The institution should provide the faculty with adequate time for planning development, reevaluation and reaction of the curricular. The endowors thread result in an up-to-date onsid description of all learning experiences, including courses, elinical experiences and independent work.

The following elements are desirable as hip motively conteulum development for all programs. This is guided they develop matter aspects of the process needs d if the cartinum is to be related to enhancement goals of the program, somethic to change, and effectively integrated.

- Faculty should be allowed time to wark on balaxidant course planning as a regular part of the bacoponsibilities.
- There should be regularly scheduled meetings of the full faculty and of sub-groups which have clearly related ou neulam responsibilities to facilitate exchange of information and contaboration on course planning, and to divel, pottong bases for integration and sequencing of curriculum compoments
- An up-to-date the effbasic descriptive in arrial careful contracts should be a first of the hereit of the section of the date of the section of the date of the section of the date of the section of the s
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ulty to assess overall strengths and weaknesses of the program.

- The corrections should be subject to annual review by faculty groups outlide the immediate professional program to ensure that its structure and level are compatible with those of other programs in the institution, and as one means of avoiding professional parochialism. The exact nature of the review may vary willedy among institutions, and it need not be a formal process involving controlling approval. Some evablished method simuli, however, exist for soliciting ideas from other specialists within the parent institution and the mader cline direction.
- Some regular mechanism should be in use to allow student participation in carricultum evaluation and development.
- Regular provision should be reade for joint planning meetings in which both classroom and clinical faculty participate. Clinical faculty should be kept fully informed about all changes in curriculum, but should also have an opportunity to participate in planning these changes, although they act cridinarily in an advisory cupacity.
- Regular provision should also be made for joint planning aneetings of representatives of the physical therapy facility and medical specialists who utilize the services of physical
- Parapiels for their patients. The according school die the dis routs is expectations of octing roups and to share views of the relevance of selected curriculan content.
- Despite the desirability of vetive advisory participation of faculty from other disciplines, undents and clinicians, the full-time program faculty should have the major voice in determining curriculum structure. The mechanisms for securing administrative or overall faculty approval should be clearly described and known to faculty. Extended delays in securing alministrative review and veto of faculty-proposed changes by a single administrative officer on other than financial grounds should be stouded.

The following are examples at kills which the physical therapist should possess to communicate effectively:

- Recognizing the effect of her his own verbal or non-verbal communications
- being receptive to message of others, whether expressed verbally or non-verbally
- · Asking relevant and understandable questions
- Giving accurate and appropriate information concisely and clearly
- Giving patients and their families clear and concise directions using lay or medical terms for body parts and disorders as indicated.
- Other kinds of performance skills include:
- Estimating current costs of providing services, establishing charges, and identification of methods for minimizing costs
- Implementing a practical system for ongoing assessment of the quality of care provided by the service
- Implementing policies to ensure safe and ethical practice in keeping with medico-legal principles
- Estimating needs for manpower at various levels and delegation of responsibility and scheduling of activities for available personnel
- Estimating needs for recruitment, selection, orientation, retention, and promotion of new personnel for the service
- Estimating facility cnd equipment needs, and establishing planning priorities for their acquisition as a basis for budget
- Hypothesizing about probable consequences for physical therapy services as a result of clanging patterny in delivery of - health cure
- Interface concernents of a sector study expert assistance in planture player of the copy sectors.
- Industry the factor and a specific theory of to those of other elements in the health care system of the community

She curriculum should encourage:

- equiring awareness of major developments in theory and practice
- Being flexible in adapting to new and changing concepts and practice
- Identifying unsolved problems which exist in physical therapy'
- Identifying herlhis own areas of special interest and opportunities for involvement in these areas
- Identifying additional knowledge and skills meded to improve herthis function in areas of special interest.
- Recognizing and becoming involved in the resources for continuing education
- Recognizing areas in need of research and understanding some of the major research methods in use to evaluate published or presented work
- Participating in community health planning
- Understanding and practicing professional ethics
- Recognizing major social issues and health tiends which influence the field of physical therapy

#### UL RESOURCES

A. Personnel Resources

The instructional staif shall be qualified, through academic propagation and experience, to teach the subjects assigned. A planned program for their continuing education should be provided.

- 1. Program Director
  - a. Qualifications
    - 1. The director shall be a physical therapist with special competence in educational administration and carriculum.
    - 2. The director shall have had adequate clinical, administrative, and classroom expericuce.
    - 3. Except in unusual cases when special professional experiences can be considered the equivalent, the director shall hold the mester's or doctoral degree in an appropriate field.

The director is expected to be licensed as a physical therapist by the state board of examiners for the state in which the program is basid. Evidence of competence in educational administration and carricelum planning will ordinarily consist of graduate study in those areas and of recent experience on the academic faculty of an established physical therapy educational program.

The director's competence in educational administration and curriculum planning should include knowledge of trends in higher education and their implications for physical therapy education, as well as familiarity with current legislation in health and education having petential impact on physical therapy practice.

The digector should have at least five years of experience in the various aspects of physical therapy practice, three years of which should be clinical.

a. Responsibilities

- 1. The director brings together the many and varied talents in a department for the total effort and the optimum at his tion of indiviolant abilities.
- 2. The director multiples constructions within the department on an na prepart inental, university, and community legal
- 3. The director provides le treship in tele bing

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by againsides dependent of the staff, in bud-gaining, in estat Pohing priorities, and in it against departmental responsibilities.

- 4. The director taxes an active part with the rest of the forelty in seeking undiries and resources for research and special traciting f10,2318
- 5. The detect of has chief responsibility for the level presit, maintenance, and updating et de carlo dans.

2. Classiogra Facility

All preserves with major calebing response diffes shall hold acrile me application is in the institution in which the program is located.

a. Quelfactions

- 1. Except in unusual cases when special prefor sincully operion as can be considered the equivalent, all classroom faculty shall hold the may rely or dortoral degree.
- Provide a discreptist facturity mentions shall be and additional challed experiences to end and in to reflect enargoing theory to there is a second ent and thing the period of thereignacies in a practical and incerhaing manaer.
- A. Instruction responsible for ball, coerces in the nearest, biological, and social sciences shall e dirarily held an advanced degree in that discipline, be active in it, and hold on off singulat in the appropriate adadents department they may or may not be qual-that or professional physical therapists
- 4. Encuity members shall have special compatence in these areas of the curriculum for which ney are responsible.

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Linding members shall not be expected to teach in all parts of the program or to frequently vary ter contractions of a few which they are responde-ble. Codectively, physical therapy facility members situli have complementary strengths and

- special expertise in varying areas.
  b. Respond dilies
  c. file is uny of classroom factor shall means fail time to the educational progrant. although a limited number of parttime faculty and guest lecturers may be used the crutch program offerings.
  - 2. Sold classroom faculty shall have and must use ter and opportunities for renew 4 and extension of their own knowledge and shills.
- 3. Cildical Fradity
  - a. One person in each facility who is family in with basic theory and plothed of planning educational setticity shall be designated as responside for the student attiliation program in that institution. This person shall have continuing, regularity schedialed contact with the classroom ficulty and program administration the uphout the year.

b. Professional staf shall be available in each affiliating contactor assist with student education and super-ision. Stalf members to whom 1C6 straintis the assigned shall have been forestary origination in a much regard conformation d soffering and pressure and to the special prepase of the abbidul phase of that curriculum.

- el Profes i nil staff who are assigned to work with the students shell.

supervision of all students by a professional physical, therapist despite temporary absences of individual staff or of the supervisor of clinical education.

- Have had a minimum of one year of fulltime clinical experience.
- Ensure that the student has opportunities for meaningful interaction with physicians who utilize the services of physical therapy for their patients.

All clinical faculty shall participate in continuting e location programs for renewal and extension of their knowledge and skills. This may be accomplanted by use of opportunities such as those outlined for classroom faculty.

- 4. Medical and Basic Science Faculty There shall be substantial evidence of institutional commitment to support the educational program by providing adequate mechanisms to ensure orgolog provision of appropriate instruction on subject matter usually covered by faculty based in other departments such as clinical medicine, anatorry, physiology, psychology and social sciences. In concurring this commitment, the sponscring institution shall.
  - Designate a qualified physician to participate with the program director and faculty in developing and coordinating appropriate instructional services concerning medical and surgical topics relevant to physical therapy; and
  - b. Provide administrative support to ensure adequate commitment of busic science departments to meet the reasonable and legitimate needs of the program.
- B. Financial Resources
  - The institution which accepts responsibility for the education of physical therapists shall be prepared from the onset to provide a major portion of the "total hudget required. As the program grows, final call support for the program should increase to tailest taking costs and an increase in total total regiments by the enrolled students.
  - 2. The director of the professional curriculum shall be darively involved in both immediate and longrange planning and budget management.
  - The program shall not substitute students for paid percent of to conduct the work of the clinical facility.
- C. Facilities Resources
  - These shall be adequate classroom and laboratory space as well as adequate administrative offices.
  - There shall be space and resources for independent study available to students.
  - These shall be space for faculty and student meetings.
  - These shall be surretarial services and space adequate to meet the needs of both program administration and faculty.
  - There shall be one or more primary areas with adequate learning opportunities for clinical education.
  - Appropriate modern equipment and supplies for directed experience shall be available in sufficient quantities for student participation.
  - 7. Furthly of the program shall participate in, or conduct, and decoment an annual review of the adaptive of the facilities currently available in relation to the types of featuling experiences officied and the numbers of students enrolled and nades written recommendations to appropriate

# a balan trative officers regarding projected more of the program.

The foculty should have full opportunity to participate in the activities of the total foculty of the institution as well as those of their own program.

A sufficient number of full-time faculty should hold appointments to the program to ensure that:

- The student-faculty ratio allows for continuing individual count eling of students by professional program faculty throughout their period of study.
- The student-faculty ratio for laboratory activities should not erceed 16 to 1 (us the upper limit).
- The floatity teaching loads approximate time recommended by the American Association for University Professors: 12 sumestor hours credit per semester.
- There is an adequate reserve of follows provide Continuity of coverage when an individual faculty member is temporerily obsent.
- The variety of faculty background allows expression of different ideas and points of view in faculty planning conferences, and exposure of students to a variety of approaches in the instructional program.

Two years of experience should in most cases be regarded as minimum per facility who are teaching physical therapy dears and providences. In addition, if contact with patients is not possible as a regular part of facility applications an appendnity should be provided for some of in-faculty to spend blocks of time in a clinical setting at periodic intervals.

This involvement should be in some form of sciencific research whether it is clinical, laboratory, or literary. Formal scientific research is only one of the appropriate forms of contributory activity, but its importance is such that at leas some of the faculty should be regularly involved in such investigations. The time and other resources necessary for this component of faculty responsibility should be considered a basic element in program plauning and budgeting.

Classroom facility should be regularly involved in some type of scholarly activity designed to contribute to assessment, synthesis, or expansion of professional knowledge.

These opportunities are generally referred to us continuing education. Continuing education is a fundamental aspect in the maintenance of a qualified faculty. Continuing education endeavors should include:

- Study of current methods and new developments in the general field of physical therapy in addition to study of special areas of interest to the faculty member.
- Study in areas of general applicability to physical therapy including: clinical areas, methods of teaching, development of a liministrative skills, and the changing role of physical therapy in relationship to the health sciences and the community.

Some methods used to obtain continuing education (varied among the many available) are:

- Reading published literature in scientific journals
- Attending workshops, scientific meetings, scininary, lectures, and experiences of equivalent educational ment
- Wotching trievised educational programs and listening to educational tap + recordings
- The supervisor of clinical education should: • Have formal approval from the administrator of the facility to participate in the teaching program
- Be formally recognized as a member of the university program faculty in whatever way is most appropriate in terms of that institution's policies
- Be available in the facility on a full-time basis throughout the partial of all student affiliations
- Paris d of all student affiliations
   Have varied clinical experience (three years will enlinerily be enough turn), preferably in more than one facility
- Le familiar with basic theory and method of planning educational activities

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reause the per student cost of quality education at the professional level is necessarily high, it will usually be impossible for the parent institution to meet the full cost of operation from tuition payments alone. Additional support from gifts, endowments, and grants must be sought as needed through a process which includes realistic long-range planning. In particular, when grant support is an important element of an overall funding of the program, there should be careful advanced planning to identify sources of alternative faciling to cover budget needs when and if grant support is reduced or terminated.

The director as well as all members of the professional program faculty should have an opportunity to participate in the establishment of the priorities on which budget planning and allocation of *v* sources are based. They should be advised of the institutional policies and procedures which form the framework for fiscal planning.

As a basis for budget planning, the present and anticipated costs of program operation should be calculated for the total program and on a per-student busis. Projections should include such items as the number of students that will be enrolled, the number of instructors needed, and the number of sections in each of the required subjects to be covered. Other consilierations are provisions for faculty participation in continuing calculation activities, hooks to be purchased by the library, that maintenance and upkeep and all the other needs of the program for the fiscal period. Provisions should be made for contingencies and emergencies and for vacations, sabbatical leaves and other faculty benefits.

Because the budget consists of a series of estimates, many of are prepared months in advance of the fiscal period to where they are related, periodic revision should be mode in order that the budget may always represent a realistic plan for expenditures.

#### Facilities

It is the responsibility of the sponsoring invitution to ensure that students awigned to an affiliating clinical facility are engaged in planned activities designed to complement the academic phase of the program; that each student is adequately supervised; and that students are not exploited.

These facilities are expected to be conveniently located, welllighted, ventilated, and maintained at comfortable temperatures in relation to the activities being conducted.

Administrative offices for the program director and supportive personnel should be adequate in size, design, and location to enable the administrative functions of these persons to be conducted effectively and efficiently.

Each full-time faculty member should be provided with adequate office space which is well-lighted, ventilated, maintained at a comfortable temperature, and large enough to advise students and keep files.

At least one basic laboratory for instruction in physical therapy skills and treatment techniques should be assigned permanently to the physical therapy program. If clinical facilities are readily accessible and available at convenient times, they may be used for part of the laboratory instruction in physical therapy procedures, but additional laboratory space is usually needed for demonstration and practice of techniques.

Additional classroom space required for lectures, demonstrations, and laboratory activities may bash ared with the other upristy programs, so long as it is available at suitably schedimes to meet the needs of the program.

In addition to the resources available to the educational program for the physical therapist, there should be an adequate learning center. Each school should have as worn himery, teaching materials, and wullowisual acits center. The important factor is that students be provided with a lequate access to journals and textbooks they need to prepare for classroom participation and to complete assignments regaining library research on a topic.

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### Physical Therapiet Essentials and Gallos. 377

The number of secretarial and clove algorithm personnel assigned to provide supportive services for the program will vary in relation to the operational requirements of the program. However it is expected that the rotatine administrative work of the program is sufficient to justify at least one full-time secretary. Additional supportive personnel may be needed to type course materials for individual factory members and to prepare correspondence related to administration or clinical education.

A primary area for clinical education is defined as a wellestablished plysical in reprinciple which is utilized for the initial directed clinical education of stude is and which is geographically convenient to permit early integration of clinical and didactic learning.

#### IV. STUDENTS

A Selection

The academic standards for the students shall reflect the requirements and the purposes of both the educational institution and the program of physical therapy. There shall be a published statement of criteria for the recruitment, selection, retention and evaluation of sordents

B. Hennh

The sponsoring in that ion shall provide health services for its students. This shall include provisions for adequate co-energy during periods when students are off campus at clinical chilications.

- C. Number
  - The number of students enrolled in each class must be commensurate with the most effective learning and teaching practices and shall also be consistent with acceptable student-teacher ratios.
- D. Counseling

Testing and countering services shall be available to the student prior to enrollment and shall continue throughout the entire educational program. month of the first of the

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#### RECORDS

A. Student

Records of classroom, laboratory, and clinical experience of each student shall l= maintained in accordance with the requirements of the institution.

- B. Curriculum
  - A copy of the current curriculum shall be kept available.
  - Copies of all materials utilized to implement the curriculum should be available for review by representatives of the accrediting agencies.

Information should be provided by the educational institution, including additioned to students who seek part-time employment opportunit exception databases, and loans. Additance should also be provided to graduates of the program of physical therapy who are seeking appropriate employment.

#### V. OPERATIONAL POLICIES

- A. Announcements and advertising must reflect accurately the program offered.
- B. Student matriculation practices and student and faculty recruitment shall be non-discriminatory with respect to race, color, creed, sex, age, handicap(s), or national origin.
- C. Academic credit and costs to the student shall be accurately stated and published.
- D. Policies and processes for student withdrawal, and refunds of tuition and fees, shall be published and made known to all orghnants.
- E. The institution shall comply with *Lair Practices in Education* as established by the Committee on Allied Halth Education and Accreditation (CAHEA).

### VI. CUNTINUING PROGRAM EVALUATION

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- program's effectiveness must be documented. The results of these reviews must be considered and reflected in policies-developed and in the program's self-study.
- One element of program evaluation shall be the employment record of graduates of the program.

#### VII. MAINTAINING ACCREDITATION

- A. The Annual Report form provided by the Committee on Allied Health Education and Accreditation shall be completed, signed by an appropriate official, and returned by the established deadline.
- B. If the program director, medical director, or education coordinator of an accredited program is changed, prompt notification shall be sent to the Department of Allied Health Evaluation of the
- 1. Application for accreditation of a program should be made to:

Department of Allied Health Evaluation

American Medical Association

535 N Dearborn St Chicago, IL 60610

prior to final action.

- The evaluation and accreditation of a program can be initiated only at the written request of the chief executive officer of the sponsoring institution or an officially design.
- nated representative.
  A sponsoring institution may withdraw its request for initial accreditation at any time (even after the site visit)

AMA A curriculum vitee of the new program of a cird, giving details of training, education, and expetience in the field, shall be provided.

- C. The Constitute on Allied Health Education and Accreditation may withdraw accreditation whenever
- the educational program is not maintained in substantial compliance with the Essentials outlined herein; or there are no students in the program for two consecutive years.
- D Accreditation shall be withdrawn only after notice has been given to the clifef executive efficer of the instant for that, ech action is contemplated, with the reasons therefore, and with sufficient time to permit a confidered response. Established productures for append and review shall be available.

#### ADMINISTRATION OF ACCREDITATION

- The program being evaluated is given the opportunity to review the factual report of the visiting survey term and to comment on its accuracy before final action is taken.
- "AHEA and cooperating review committees will period; they assure a main and projects for contrast and iteration.
- The onlef end-unive officer of the sponsoring is discion may request that a return on site evolution the after in the event of a graticant deficiencies in the performance of an earlier evaluation team.
- Adverse accreditation decisions may be appealed hyperiting to CAHEA. Due process will be followed.

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Admission Requirements\_\_\_\_

It is the policy of Logan College that completion of two years 60 semester hours) of education at an accredited college be required for enroliment.

# Pro-Chiropractist Education

The Logan Professional Education Program is based on the firm belief that chiropractic students should be liberally educated in addition to being competently trained in the basic sciences and chiropractic skills.

Legan College is committed to the idea that the best education is one which in addition to producing a highly skilled doctor of chiropractic, produces an individual able to reason, to think, to explore the great heritage of ideas and the vast body of knowledge accumulated in literature, the humanides, and the sciences, and who is able to wrestle with the issues and values of contemporary society.

The recommended two-year liberal arts curriculum includes:

#### 6 semester hours

2040 seniester hours

in any of the following

(SCD-NCE Bolony Chepilitry Paysits Mathematics Microbiology Bio-Chemistry

TOCAL STUDIES

Leonomics

Sociology Psychology

HI MANITIES

Religion Art

Slusic

Literature

Phile: oplay

Pulitical Science

1 THONY

ENGLISH

52 E

10-20 segrest r hours

Students may matriculate as Logan College of Chiropractic after success

fully conducting two-years of any pre-professional course of studies. It is no mandwork for students to follow data structured course of studie, However,

6-0 semester licuis

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# umission Procedure Logan Cologe of Chilopractic selects students on the basis of character,

Logan Course of Chiropracta screeks addented and superior scholastic itude interest, intellectual ability, molivation, and superior scholastic never rent. There is no discrimination because of race, color, freed, sex, idence, or financial status. Applications are reviewed and independently duried for members of the Committee on Admissions. Final decisions are de by the faculty committee as a whole. All applicants are interviewed of to their acceptance.

The College strives to recruit, enroll, and educate an increased number of The College strives to recruit, enroll, and educationally deprived groups, and to ident, tong racial-minority and educationally deprived groups, and to rease the number of black doctors of chiroproctic in the Colled States.

Application and full information on admission may be obtained by writing c Gener of Admissions at Logan College.

For prolligent, the following must be submitted:

) Completed application for adultision.

) Small physics

I Litter o decommendation.

j Official tradictions of all previous education credits sent divergy from selecols artended. College enfrance to its trach should be exhibited on these track up ts or results sent in conjunction with them.

) Administras fee of \$25.00.

Logan College reserves the right to accept those students it feels will mefit by the course of training, who will be a credit to the College and an set to the profession. The admission precedure is based not only on the oplicant's peademic record, but also upon careful seruting of the "total ersonable," of the student.

The Contents calendar in the front of the catalog gives the dates of dmission. The curriculum is arranged for the student to enroll either in spicember or January.

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is  $p_{\text{response}}$  to follow this program if the Dashelot of Science (B.S.) depret is to segmented with the Doctor of Chiropractic (D.C.) degree.

The first two years at a liberal first college are devoted to laping the best  $a = a^2$  of a scientific base. Struggts need to know what science is in its generic scale prior to studying the application of the methods of science to chapters are practice. In addition to being a scientist, it is exceedingly included for the eniropractic student to become a humanist. A very generic perform of the laberal arts correction is left open for electives and structure comparison preside the humanities of their sholes.

the student of his laberal arts studies, the student m. Accust at Logan College of Chiropractic to complete his professional education.

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Each module contains all studies of a particular system of the body. For instance, module =1, the nervous system, includes the embryological development, the histological components, the matomical structures, the physical-odd functioning, and the possible pathological conditions with associated physical diagnosis, clinical diagnosis and suggested treatment productions. In the modular system, students develop *z* total understanding of each facility system. In addation to the modules, students study the basic statemest, rehemistry, microbiology, etc.) and chiepractic principles and practices every analysis, adjusting technique, etc.). All modules are feam tought.

#### Logan College of Chiropractic ...

Four years of an true tion in the basic sciences and chiropractic principlet and practice.

Student graduates with the Dachelor of Science (D.S.) and Doctor of Chireprotic (D.C.)

#### Pre-Professional two year lib. ral arts

The sciences, social sciences and electives in the liberal arts at a college sciected by the sludent.

The student who follows the Logan Education Program can graduate with the Eacheber of Science (B.S.) degree in addition to the Doctor of Chiroproduc (D.C.) degree. This mater it possible for him to continue his education in a post graduage course of studies, which is particularly helpful to the student who is interested in a career in chiropractic education or research.

### Advan ed Standing

Application for advanced standing ensits from other institutions must be supported by an official transcript and a catalog of the institution containing a course outline. If the applicant meets the general admission requirements at Legran, the Registrar will refer the files to the Academic Dean for a decision on advanced standing.

In all cases where an immediate decision for advanced sharding application cannot be table, applicants are required to attend ail classes in such subjects until the instructor concerned has rendered his decision to the Dean.

In some cases of question a proficiency examination may be necessary to acquire advanced standing credit.

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Texts: Inorgane Chemistry - Morrison and Poyd, Publisher, Allyn and Baces

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Hours: 40

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Introduction to Pathology LIB

Hours: 20

Lecture course covering pathological changes and dysfunction of the typical cell.

Introduction to timicyology IMC

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A Textbook of Pathology - William Boyd

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res Anatomy 102

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Lecture course study of osteology which provides information on the ars, joints and articulations of the human body. Detailed descriptions are on with full information on function and relationship.

Detailed study is made of the musculature, blood and lymph vestels and ve libers of the lower extremilies.

Lal pratory groups dissect a human cadaver of those regions being studied. idents learn gross characteristics of body structures. Lectures are closely ded to laboratory work. Relationships of the various structures under dy applicated and accoriation of the nervous system throughout these as is **coupt** asized.

General Strategy - Goss

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Ail students must have their programs approved by the depletmental graduate advicer.

Fir additional information on the graduate program in speech pathology and cutscipley, consult the Program Director, Rica-n 103, Mackay Science.

# Graduate Programs in Blochemistry

Advanced degrees are chared at the Misster of Science and the Doctor of Philosophy levels and may be pursued under the direction of the graduate faculties in the College of Agriculture, College of Arts and science, or School of Medicine. Since requirements one duternined by the Graduate School and not by the individual colleges, they are identical and are strown under Graduate Offerings from the College of Agriculture.

# Four-year Medical School Program

# General Information

The School of Medicine, University of Nevada-Repo, was established in 1009 to provide the first two years of medical education and was authorized to convert to an MD degree-granting school in 1977 by separate acts of the Nevada State Legislature.

The goal of the school is to provide academic programs for undergraduates and postgraduates in the health professions, with an emphasis on the development of primary care physicians who will provide comprehensive health care to ment the needs of the individual, the family, and the companity. The school is derivated to strategrand training individual, who will provide to a companity. The individual, the family and the company. The individual who will provide to a company, the individual who will provide to a company and individual who will provide to the action patiently or doubt company of the school is derived ratories, and clatted patients the phote of a

combination of chicampus buildings and community habits facilities. Through altibution agroements with hockstats to devide throughout Nevada, students have becaus to divide ta cilities totalog 2,000 beds.

### Curriculum

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The fact two years of this outer cutum place s empiricials on binneritial and task and sciences bacic to investigine. Linea creation disciplines and often integrated with path other and with conject more all suward a clear and meaningful undercur using of the image e can by the of the tray increasing the contractions of the transmission of transmission of transmission of the transmission of la ming and the second second second navoral objectives provide students when gradialated for elicities in a state part de later de later grated courses in classes and be adored sciences follow the core curriculum. Preceptorships with physicians throughout Revails offer students additional pinipal experience.

The third had form years of the curriculum include deficition and the latentin Family and Community Medicine, tota het Medicine, Olstations and Gynachingy, Padiatrics, Psychiatry and Behavioral Sciences, and Surgery The minimum is oriented to and the education of standay care physicians. Clinical training clouds in a number and veriety of coumunity based hospitals. They, the field and forstin year's education of divided an ang Rino, Lat. Vegas and surger brack. New York, Portgraduate training at pre-off currisits of resdency plag in science and Padiatrics.

# Requirements for Entrence

Since the meridad back of utilates the contrailized application download the Association of American Medical Colligies (AAMO), students must submit that meridations to autilit the American Middle Drift be Arguitation Service (AMOAS) AMOAS contractions ruly be obtained from the 40MO, 1776 Mascachusetts Avenue, Nimbered, Washinghas D.C. 20035 On completion, the explosition must be returned date sty to AMOAS Deadline in November 1.

The new MOAT is required. This claim is off indexity twice a year encount this space and constructed by the device tions may he claimed by the time to the Carlor of and That is Transferd. Of a minimum of

Medical School Admissions: A maintan of three years of college work (90) computer credits is normally required. Under exceptional circumstances, 60 somester credits may be accepted. However, the Student Salection Committee strongly recommends completion of a baccalaureate degree.

Requirements for application include

	5	ome	1.5	Credis
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Biology	**			16
tays-s.	 			8
Behavioral Sciences*		•10		ງ

In addition, a facility in English composition and expression is required. Generally, students are expected to satisfy the English composition requirements of their undergraduate institution. Students are encouraged to utilize courses in human growth and development, allocanal physically, an massively oriented secology in luit training the behavioral science receivement. The following supplemientary courses are recommended as useful to the study or practice of medicine but are not required for admission: calculus, biochemistry, genetics, and embryology.

# Selection Factors

Candidates are evaluated on the basis of academic performance, performance on the new MCAT (which should be taken in spring pear to making application), the nature and depth of scholarly and extracurricular activities during college years, academic letters of evaluation, and the personal interview if requested by the Student Selection Committee. A high priority is given to residents of Nevada Generally the remaining successful applicants have been residents of states participating in the WiChE program, puricularly residents of states without medical schools Applicants from states other than those involved in the WICHE program are discouraged from an Using to the University of Nevada.

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#### Fourth Year

Building on the three pravious years, the curriculum of the fourth year covers 32 required weeks and is meas up of selectiveelective clinical experiences, as arranged between the individual student, adviser, clinical adviser, and appropriate chairman of the various clinical departments of the school. included in the 32 weeks are total weeks of a required rural proceptorship which offer opporture two of most of the clinical areas in a rural secting, and 24 works of strictly clinical electives. The advisory system incures that students are guided to take aucount of both career choices and to cecure additional experionalis in creasing day reinediation.

Students must provide Test II exam adinitiatered by the National Ecold of Medical Examiners in order to graduate with an M.D. degree.

# Departments and Faculty

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#### THE NEW ENGLAND JOURNAL OF MEDRALE

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#### REFERENCES

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- 3. Galen RS, Gambino SR, Beyond normality: the predictive value and ef-
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#### SOUNDING BOARD

#### THE FUTURE OF CHIROPRACTIC

What is to be done about chicquarters? Inferts by organized medicing to effectivities during the internation successful. The label "quack" has not stuck. Despite the most strenuous opposition, they have attained licensure in every state in the United States and in Canada and many foreign countries. Over 23,000 chiropractors treat some 8 million Americans for a wide variety of conditions. Reimburkement for their services has been authorized Uy Medicare, Medicaid, Workmen's Compensation plans, and by many Blue Shield plans and other private insurance carriers. Chiropractors received more than \$30 million of Medicare funds in 1978. Over 2000 new chiropractors will be graduated this year, more than 70 per cent of them from colleges federally recognized as accredited. Chiropractors appear to be winning their struggle to survive.

Awareness of these facts is linely appearing in medical circles.1.2 Perhaps the most important stimulus, however, has come from the antituist suit filed in 1976 by five Illinois chiropractors against the American Medical Association (AMA), the American Oateopathic Association, 10 other medical organizations, and four individuals,3 followed by antitrust suits in several other states. The medical code of ethics has already been modified to remove restrictions on professional association with chiropractors, but the broader question of the role that chiropractors will play in the American health-ture system nutsestill be fated by makers of health policy, legislators and the leaders of organized medicine.

An informative discussion of the worth of chiropractic therapy is contained in a recent report, "Chiropractic in New Zealand," by an otheral Commission of Inquiry.4 I agree that it is "probably the most comprehensive and detailed independent r-amination of chiropractic ever undertaken in any country " Its principal conclusions are that

madern chiroptantic is for from body ton uto butt safe, combe effortissing a large statistication Bröted number of cases where they are clear or symptoms, chiropractic treatment is a provide rected but this is onpredictably, and its such causes the protocol deviced contradic consulrent medical car of that is practicable. There is not be reliagant ment to full professional cooperation between charopratics and medical practiconers . Allocopea tors should, in the public inaction he accepted as partners in the general health care as me tients should a intime to have the right to cursuit chroping the direct.

An importial evaluation of chicopractic in United States though, and probably would, cone in essentially the same conclusions as the New-Zerles Commission. In any case, the makers of Arrented health policy need to consider carefully the roles of 5 chiropractors might play in the future.

One alternative secures clearly to eclosed - -----route that ostroparhy has followed. The notice it a chiropractic's evolution has, a generation later, be moduled after that of a drop athy is not his aritalized carate,' nor is such a route likely in the future. Der Lie their shared measurement acceliate tranipolistice, etc.7 practice should do not practice like conceptible. presentee datags manify the astron as meriled decrees." Although charopractors entry the greater presize and comparisonshieners of english practice, and slow claim to provide complete primery care, their hearing toward drug therapy strongly inhibits the desire become allopathic practitioners. This impediates  $\epsilon$ of course, reinferced by the vigorous opposition if organized medicine to any claims by chiropractes ?? practice comprehensive in glicine. 

A second possible alternative -- for chiropradices. function under medical prescription as physical and apists do --- is equally unlikely, although it is 🖬 🐔 Fresident Carter list proposed to Congress, but Lat dropped, in his 1979 National Health Insurance F. It would not work been sechicopractors already term too autonomous a processional status to be when we subordinate themselves to medical doctors. In Size tion, medical doctors are not trained to know whet chiropractic wood I be benefit ial or contraincreate and they have regarded thiropractors as unfit for for fessional association for so long that they with generally be unwilling to send patients to character tolis.

A variant on this "solution" would be for play of therapists to become chilled spinal manipulaters ?? offer patients all that charge actors do - buy see medical prescription. Jour. Curiax, M.D., hitself shilled manipulator, unges obysicians and phat therapists to master the manupulative therapy be calls "orth gandie much been part he offers with work hops for these who with to learn." Similarly," physical therapist Stanley Paris tells me that heir past graduate instruction in "orthopaedic physe" therapy"; he organized the Institute of Onby-s Physical Therapy on Staten Island, N.Y., and in help I establish a Section on Outbonacdics 🖗 American Physical Thermpy Association, Hr-v-F physical characteries access of these this result of would be the first of the second second re us about the indications and contraindiff. or adjudative therapy then they do now, but pro-

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pists would in effect have to become chiropracan although their current baccalaureate-level traindoes not qualify them to diagnose general patholas a to prescribe for it. Hence, it is not likely that the problem of chiropractic can be eliminated by a enert effort to replace chiropractors with upand physical therapists.

Athird option is to maintain the status quo. Chirorepars would remain a "marginal" profession inin effent of organized medicine, their therapy coning to be stigmatized as of dubious value, and ges ability to make differential diagnoses suspent." entropractors could gradually elevate thema profession "parallel" to medicine (a status are hat like that of ostcopaths in the recent past) singh continuing to upgrade the quality of their stand their diagnostic competence. But if this to happen, the "separate but equal" diamona probably appear, just as it has with race relathe Separated groups are seldom truly equal; insecomparison, are inevitably made. The reverse deccurs: Groups of equal status tend not to remain same Just as racial groups of equal standing insyme more easily, so too do professional groups that fre close to equal status -- thus, the recent rappresent between medicine and osteopathy. Since function for reasons stated earlier, is not like's to the path of ostcopathy by broadening its scope Expression and upgrading itself to the level of tation the attempt to maintain the status quo in relational relations between chiropractic and med-Let would be more likely to keep chicopractic "marand [rather then "year aliel." Still, this is a viable op-

a first plot plattive, and the most promising one at many reasons, is the gradual evolution of chirowith a "limited" or "limited medical" profes-"n The must foundar examples are dentitivy, meetry, and optimizing; psychology, speech therapy, and hudiology occupy similar roles. These profes-Imit their scope of practice to a specific part of ady or its functioning, and the range of therapies Finited. Unlike chiropractic, they and thallenge orthodox medical theories of disease Setterapy. Hence, they can coexist with organized incluse However, the road can be rocky, as demonby the long history of disputes between oph-Secologists and optometrises and between psychia-

and psychologists." subscribed to a theory explaining the source of all illnesses, to the satisfactory relation with medicine that ind notical professions have. The different in state laws of chiropractors' scope of first has relatively little chirst on has charactere really provide or on major trends in chira-Fractice. One critical question will be rowhere thropractors will abundon some of their grad principles, a process that has indeed already

begun. Policy makers should not be misled by pronouncement, of the chiropractic "superstraights," a very small group of doctrinaire practitioners who disavow the vast majority of chiropractors and who all in (urn disavowed by them.

637

With most states now requiring that candidates for licensure be graduated from accredited colleges, there is increasing uniformity in chiropractors' education as well as a guaranteed minimum of competence in the basic medical sciences. Furthermore, the colleges now use standard medical textbooks and universitytrained instructors, most of whom are not chiropractors, for the basic sciences. Although the colleges are still weak, recent graduates are less doctrinaire, more aware of the lingitations of chiropractic theory and therapy, and better able than their predecessors to identify conditions leyond their competence to treat. Therefore, they can function satisfact rily we "portal of entry" into the health-care system without being the providers of total primary care that medical doctors are (and that some chiropractors still claim to be). As a result, chiropractors have the potential for evolving into "limited" or "limited medical" practitioners even though many of them would deny it and many medical doctors would resist it.

There are several forces pushing chiropractors toward becoming limited practitioners. Chiropractic is in fact a limited therapy, not as limited as meet physicians have assumed, but certainly not as broad as chiropractors originally claimed, and as chiroptactors become better educated in the basic medical sciences, they better understand the limited role of spinel manipulation. They devote most of their time to treatment of mesculoskeletal conditions and closely related conditions such as sciatica that maa subtive therapy has been shown to help. These conditions are the ones that chiropractors are most associated with in the public view, the ones for which third-party payers are most willing to reimburse chiroptacions, and the ones for which medical doctors would be most likely to refer patients to chiropractors.

. If oppositions were in featured a

tioners, there would be to have a so for the

ited medicine, the Lalth-care system, and p. health. Chiropractic would be "contained" to a limited role, and organized medicine could cease iss active opposition to chiropracters. Medical dattars would be more likely to refer preferts to chiropractors, and vice versa. There would develop a greater consensus among chiropractors as to what chitopractic is, and the public would have a clearer understanding of what chiropractors do, which should lead to an improved public opinion of this form of treatment and its practitioners. Inturance companies woold manutad in condurse chicopactors for cervices preserved. Chiruptactors would attain a more secure place in the health-care system, and the health of the American , ablic would be enhanced.

#### THE NEW ENGLAND JOURNAL OF MEDICINE

It may seem utopian to expect chiropractors in preorde to such a limited role, and just as utopier, to expect organized medicine even to consider it. But that is what the New Zealand Commission of Inquiry seems to be recommending for its country. In Ontario, where chiropractors are routinely reimbursed under a socialized system, hostility between medical doctors and chilopractors is minimal. There is no fundamental reason why the same situation could not prevail in the United States. The AMA has already last its struggies to keep chiropracters unlicensed, to prevent payments to them under Medicare, Medicaid, and most other third-party payers, and to prevent the accreditation of chiropractic colleges. Organized medicine faces further assaults on i prerogatives and practices from the courts and in legislative chambers. The leaders of organized medicine and other orthers of health pulley need to become better its end a leastcetting the current status of chirepractic education and practice, and should seriously consider whether the limited-practice model could be the basis of acconsiduation between the two groups that have been to hostile to each other for so long.

University of Connecticut Storrs, CT 66253

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#### WALTER J. WARDWELL, Ph. D.

#### REFERENCES

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  5. Wardwell WI Social factors in the straival of chiropractic: a comparative size: Social Symp. 1978; 22:6-17.
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#### MASSACHUŞETTS MEDICAL SOCIETY

#### DEATHS

ANDREW - Edward Donald Andrew, M.D., of East organi-

<sup>21</sup> A. Sargari, J. Derivation file 1. Appendix Dr. Andrea as elsen has degree from C. S. Lin Urbanary, Other West lege of May defens and Secretors in 1951. The case sweet of the Perd examiner for Hampshire County.

He is survived by his wife, four doughters, and three survived

"such -- Harry Abraham Baker, M.D., of Holyde, 6bler 27. He was in his 73rd year.

Dr. B ther received his degree from Tulis College Mer. in 1932. He was a member of the American College dia stel the American Medical Association.

Faures -- William Loworth Barnes, EL MD, te. Teamon, died on Deterther 3. He was in his 60th was Le. Barres receive ! his degree frain fufis Calter . School in 1945. He was a min, ber of the American Minera atir-n.

He is survived by her wile, three drugh ors, and recard

BARENE -- Sabatore Amonio Barolie, M.D., of Lassa on August 14. He was it, his 74th year.

Dr. Barone received his degree from Middlesex University (Medicine in 1940). He was a member of the summary A CONTINUE

denotabled by the where designer and any real, "allera, as I several reverse and ary lines.

FEAUCHAMP - Eugene Wilfrid Peauchurp, & Chaupter, died on October 20. He was in he fly wa

Dr. Beauchamp received his degree from Jefferson Ses. lege in 1523. He was formerly president of the staff and and gery at Mercy Huspital and president of the staff and Suldiers Home. He was a member of the American Comgroat, the American Medical Association, and a Strong rethe Massechusetts Medical Society.

He is survived by his wife, a daughter and four weath and two tisters, and 17 gran dehildren.

Ber 1948 — William Perfets Bertham, St., M.D., & See the Journary 24, 1979. He was in his 77 h year

D. . Eccli am received his degree from Haward Media 1825. He was formerly surgeon-in-chief at Massachure ?" Ear Infirmary and assista, t clinical professor of spensor Hervard Medical Sthuel, He was a ment of al the Arene th bridegical Sectory, the America she chatan by he Ophthalmology, the American Academy of Ophtameric Obderyngology, the Arresian Society for Internal V-20-

He is survived by his wife, two daughters, and a -

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Baliturian - Gedeon Aram Brihumeur, MD. # 4+ diel on November 12. He was in his blot year For Bellinmeur received has degree from University Moderal School in 1929. He was formerly charman # Pri-Health in Gardner. He was a member of the Arerest his sociation and a Soyear nomber of the Massachara merv.

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10315 - Arthur James Logie, M. D. of Teans floring ly of Verstfield, died on Joly 26. He was in his some as 1. I again terrived Shade on family former. Martin 1917, Sie perce I wiel, die Artik Meree

 And the Discussion of the serve dwith the Anna Merce band a War I. He formerly a such of a suffact Not a strend or of the Association Merce and a service matches of the Massachaerers Merce 200 He is survived by his wife, a daughter and a sector of East transchilden. Ine gren ichildren.

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#### DEFINITION: INTERPRET

### The American College Dictionary

- 1. To set forth the meaning of; explain or elucidate
- 2. To explain, construe or understand in a particular way
- 3. To give an explanation

#### Websters

- 1. To esplain the meaning of
- 2. To expound
- 3. To explain or unfold the intent, meaning or reasons of
- 4. To make intelligible, decipher, unravel, elucidate

#### Dorland's Medical Dictionary

Not listed in the medical dictionary

#### DEFINITION: DIAGNOSIS

#### Websters

- 1. Distinguish, decern between
- 2. Scientific discrimination of any kind
- In medicine the discrimination of diseases by their distinctive marks or symptoms
- 4. The examination of a person to discover what ailment affects him

#### Dorland's Medical Dictionary

- 1. The act of distinguishing one disease from another
- 2. The determination of the nature or cause of disease

# Library Note:

During the examination of this set of minutes, Exhibit F was found to be missing. It also appears to have been missing at the time this set of minutes was hand numbered, as the numbering does not have a gap where these pages should be. The pages are also missing from the microfiche.

Research Library April 2011

# INSPECTION OF FACILITIES page 5

Any member or agent of the Board may enter an office, clinic or hospital where Physical Therapy (as described by this chapter) is practiced to determine if the Physical Therapists and Physical Therapy Assistants are licensed and complying with the requirements of this chapter. (NRS 640.170 & 640.300)

#### EXHIBIT H

DEFINITIONS: Dorland's Medical Dictionary

MOBILIZATION - The process of making a fixed or ankylosed part moveable

<u>MANIPULATION</u> - Skilful or dextrous treatment by hand. In <u>Physical Therapy</u>, the forceful passive movement of a joint beyond its active limit of motion

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icine, Co-	Physical Therapy in Dentistry, 24 hours, \$175 (prerequisites:	Mail Request to Institute of Graduate Health Sciences. Suita 300, 620 Peachtree Street.	
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DEPARIMENT OF THE ARMY ACADEMY OF HEALTH SCIENCES, UNITED STATES ARMY FORT SAM HOUSTON, TEXAS 78234

HSA-IMS

1 April 1981

Ms. Pat Conn 80 Arrowhead Dr. Carson City, Nevada 89701

i,

Dear Pat:

Enclosed is information concerning the hours taught in our program on Mobilization. As you can see from Annex F, Section IV, taken from our Program of Instruction (POI), we teach:

Mobilization Introduction2 hoursMobilization: Hip & Knee4 hoursMobilization: Ankle & Foot2 hoursMobilization: Shoulder2 hoursMobilization: Elbow, Wrist & Hand4 hoursMobilization: The Spine8 hours

NOTE: C = Conference

- D = Demonstration
- PE = Practical Exercise

L = Lecture

We are in the process of revising our POI and don't have a final copy yet, so that's the reason there are marks on it.

Also, I have enclosed two lesson plans for you and a handout on the spine. The LP's for the upper member and spine were not available. I hope this information will be helpful to you. Please do not hesitate to contact me for any additional information.

Sincerely,

mary E. Xum

MARY E. LUČAS, LIC(P), AMSC Director, US Army-Baylor Program in Physical Therapy

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#### ACADEMY OF HEALTH SCIENCES, US ARMY MEDICINE AND SURGERY DIVISION PHYSICAL THERAPY BRANCH FORT SAM HOUSTON, TEXAS 78234

#### <u>Therpeutic Application of Exercise:</u> Introduction to Joint Mobilization (2 hours)

<u>COURSES PRESENTED TO:</u> 6H-65B, U.S. Army-Baylor University Program in Physical Therapy students

PLACE: Physical Therapy Classroom

1.

<u>REFERENCES</u>: Cookson, J.C., Orthopedic Manual Therapy: I. <u>The Extremities</u> <u>Physical Therapy</u>, 59: 136-146, Feb 79. Maitland, G.D., <u>Peripheral Manipulation</u>, 2 ed. Boston, Butterworth Inc., 1977, pp. 3-28. Paris, S.V. Course Notes: <u>Introduction to Joint Mobilization</u>,

Institute of Postgrade Physical Therapy Atlanta, 1978.

STUDY ASSIGNMENT: After class read Cookson, pp. 136-146.

STUDENT UNIFORM AND EQUIPMENT: Duty uniform

TOOLS, EQUIPMENT, AND MATERIALS: M 32-370-557-1

INSTRUCTIONAL AIDS: Overhead projector

TROOP REQUIREMENTS: None

TRANSPORTATION REQUIREMENTS: None

METHOD OF INSTRUCTION: Lecture

- I. INTRODUCTION
  - A. Opening Statement: Specific joint mobilization techniques are just beginning to be introduced into physical therapy curricula in this country, yet they have been an effective part of the management of musculoskeletal disorders for many years. I find it odd that the physical therapy profession which has prided itself for "hands on treatment" has been slow to adapt mobilization techniques. Never the less, mobilization or manual therapy is becoming an integral part of our practice and both the patient and the profession are benefitting.
  - B. OBJECTIVES
    - 1. Define terms associated with joint mobilization.
    - 2. Describe the methods and grades of mobilization movements.

3. State the concave-convex rule and apply it to selected examples of joint dysfunction.

LP 32-370-557 129

- <sup>14</sup>. Describe the close-packed position and loose-packed position of a joint.
  - 5. State the rationale for joint mobilization.
  - 6. State the indications and contraindications for joint mobilization.
- C. Class Procedure and Lesson Tie-in: This is a 2 hour block preceding the practical application of joint mobilization techniques.

#### II. EXPLANATION

QUESTION: Where does mobilization fit into physical therapy?

ANSWER: Joint Mobilization is a part of passive exercise.

- A. History of Mobilization
  - 1. Hippocrates wrote about and practiced joint manipulation in 400 B.C.
    - a. For spinal injuries Hippocrates suggested tying patient upside down to a ladder and then shaking the ladder.
    - b. Hippocrates also wrote on reduction of dislocated extremities.
  - 2. Friar Moulton, an Augustin monk, published "The Complete Bone-Setter" in 1656.
  - 3. Medical Orthopaedic Surgeons of the late 1700's and early 1800's, such as John Hunter advocated strict rest for joint trauma. This left joint manipulation in the hands of lay bonesetters.
  - 4. Osteopathy was founded in 1892 by Dr. Andrew Taylor Still, an orthopaedic surgeon. His three sons had died of meningitis and medical practice of that time could not help them. Still set out to find the answer to the "cause of all disease". In 1874 by "divine revelation" Still was given the answer, the Law of the Artery. He stated that "all disease processes were a direct result of interference with blood flow through the arteries depriving the part of vital nutrition. By restoring normal blood flow the body's natural substances would take care of the disease processes".
    - a. In 1896, Still founded the American School of Osteopathy.
    - ,b. In 1920, Congress granted equal rights to Osteopaths and M.D.'s.
    - c. Osteopathy is concerned with the body as a unit and is concerned with maintaining and restoring structural integrity.

5. Chiropractic was founded by D.D. Palmer, a grocer and former patient of Still's. No prior education was needed. His twelve year old son was one of the first graduates. Theory is as follows:

- a. A vertebra becomes subluxed.
- b. The subluxation impinges on the NAVL passing through the intervertebral foramen.
- c. Innervation and nutrition to organs of that segment become predisposed to functional or organic disease.
- d. Adjustment removes the impingement.
- 6. Forerunners of the present trend toward joint mobilization:
  - a. Dr. James Mennel

*л*,

- b. Dr. James Cyriax
- c. Dr. John Mennell coined term joint dysfunction
- d. Freddy Kaltenborn
- e. Stanley Paris
- B. Mobilization Terminology
  - 1. Physiologic Movement: Movements of the joint in a direction in which the patient can voluntarily move (ie. shoulder flexion).
  - Accessory Movements: A normally occuring joint movement that cannot be reproduced by the patient and must be performed by m the therapist (ie. lateral distraction of the humeral head).
  - 3. Joint Play Movements: Same as accessory movements.
  - 4. Joint Mobilization: Passive movements performed by the therapist to restore normal joint motion and relieve pain. Two types of joint mobilization:
    - a. Articulations: Graded rhythmic oscillations in which the joint is passively taken through its available or pathological range.
    - b. Manipulation: A high velocity, low amplitude trust applied at the end of the available range directed at restoring the full range of functional movement available.
- C. Arthrokinematic Concepts
  - 1. Classification of Joints
    - a. Ovoid: a convex surface fitting into a concave surface (ie. glenohumeral, proximal radial ulnar, metacarpophalangeal, hip).

b. Sellar: Each joint surface is both concave and convex (ie. first carpometacarpal, sternoclaricular, humeroulnar).

- 2. Joint Motions
  - a. Roll
  - b. Slide
  - c. Spin
  - d. Compression
  - e. Distraction
- Concave---Convex Rule: When a concave surface moves on a convex surface roll and slide occur in the same direction; when a convex surface moves on a convace surface roll and slide occur in the opposite direction.

QUESTION: What would happen to a joint if only roll occured?

ANSWER: If only roll occured the joint would tilt and potentially dislocate.

- 4. Close-packed position is the unique position of a joint where:
  - a. The joint surfaces are completely congruous.
  - b. The joint capsule and ligaments are maximally taut.
  - c. The two bones connot be separated by traction.
- Loose-packed position is any position of a joint that is not closepacked. Most motion occurs in the maximally loose-packed position.
- D. Rationale for Joint Mobilization
  - 1. Muscles cannot move joints which are not free to move.
  - Muscles cannot be rehabilitated if the joints which they move are not free to move.
  - 3. Altered joint structures lead to decreased nutrition and lubrication and increased wear and stress on articular surfaces.
  - E. Indications for Joint Mobilization: Restriction of accessory joint motion causing pain or restriction of motion during normal physiological movement, in other words joint dysfunction.
  - F. Contraindications:
    - 1. Absolute: Bacterial infection, neoplasm, recent fractures.
    - 2. Relative:

a. Joint effusion or inflamation

b. Rheumatoid arthritis

c. Osteoporosis

d. Internal derangement

e. Pregnancy, flue etc.

6. Questions from Students.

#### IV. SUMMARY

A. Review of Main Points:

1. History of Mobilization

- 2. Mobilization Terminology
- 3. Arthrokinematic Concepts
- 4. Rationale for Joint Mobilization
- 5. Indication for Joint Mobilization
- 6. Contraindications for Joint Mobilization
- B. Closing Statement: Joint mobilization is an exercise tool that can be of significant benefit to patient rehabilitation. It requires understanding of the pathomechanics of joint dysfunction and the technique to restore normal joint mechanics.

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\_ SECTION IV - ANNEX P .....

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Subject and	Class	Hrs, Hetho	od(Medium) · Hob	Lesson Objective	References
Evaluation of Joint'Motion: Hip and Knee	U	2 D 2 PE <sub>1</sub>	2 D 2 PE <sub>1</sub>	Demonstrate goniometric measurement of hip and knee and record results.	
32-370-125	ິ ນ	2 D	2 D	Perform a muscle test of the	GR 32-370-12
Muscle Evaluation: The Hip and Knee 32-370-126	U	4 PE <sub>2</sub>	4 PE <sub>2</sub> .	muscles of the hip and knee, to include identification of indivi- dual muscles, palpation, test po- sitions, support, grading, and recording.	pp <sub>x</sub> 59-77; Daniels, et pp 34-75; Kendall & Kendall,.pp <sub>x</sub> 147-194; VT 89, 91.
Mobilization: Introduction 32-370-127	U	2 C	2 C	Define terms associated with joint mobilizationDescribe the close-p packed position and loose-packed positionState the concave- convex rule and apply it to selec- ted examples of joint dysfunc- tionDescribe the methods and grades of mobilization movements. State the rationale for joint mobil ization.	Maitland (),pp 3-28; Paris Mennell(1)(2 Mennell+ 20
Mobilization: Hip and Knee 32-370-128	U	2 C 2 PE <sub>2</sub>	2 C 2 PE <sub>2</sub>	Describe the accessory motions of hip and knee joints. State the close-packed position and capsul pattern of restriction for the major joints of the lower member. Demonstrate and state the purpose of selected mobilization tech- niques of the lower member.	Maitland(z)ch Mennell(,)ch
Therapeutic Exercise: Hip & Knee 32-370-129	U	1 C 1 D 3 PE <sub>2</sub>	1 C 1 D 3 PE <sub>2</sub>	Discuss and demonstrate selected exercises for the hip and knee.	Basmajian (2 467-72; Call (3); Crensha Vol I; DePal II, 1326-150 Insall, et a Nicholas (/) Paulsoud;
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Subject and LP Rumber	Class	Hrs, Meth Peace	od(Medium) Mob	Lesson Objective	References
Evaluation of Joint Motion: Ankle and Foot 32-370-140	U	1 D 1 PE <sub>1</sub>	1 D 1 PE <sub>1</sub>	Demonstrate goniometric measure- ment of ankle and foot and record results.	
Muscle Evalua- tion: The Ankle & Foot 32-370-141	U	2 D 2 PE <sub>2</sub>	2 D 2 PE <sub>2</sub>	include identification of indivi- dual muscles, palpation, test positions, support, grading, and recording.	GR 32-370- p124, pp <sub>k</sub> 59-7 Daniels, et a pp <sub>k</sub> 34-75; Kendall & pKendall (2)pp p147-194; VT 89, 91.
Gait Evaluation 32-370-142	U ·	2 C 2 D (TV)(F 3 PE <sub>2</sub>	2 C 2 D (TV)(F) <sup>3 PE</sup> 2	a pathological gait.	Boenig; Brampton; Long(z)(3)(4 Normal & Path
Therapeutic Exercise: The Ankle and Foot 32-370-143	U	1 D 2 PE <sub>2</sub>	1 D 2 PE <sub>2</sub>	2	Cailliet (4), Chor 1-9; De Palma, Vol II ppm 1544-1714 Kapandji, Vol II, chor 3.
Mobilization: Ankle and Foot 32-370-144		1 C 1 PE <sub>2</sub>	1 C 1 PE <sub>2</sub>	Describe the accessory motions of the ankle and foot. State the close packed position and the capsular pattern of restriction for the re- major joints of the lower membrane. Demonstrate and state the purpose of selected mobilization techniques of the lower member.	Maitland(2), chcf8; Mennell(;)chcf 4-8.
· ·		2		- 860	1163

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Subject and LP Number	Class	Hrs, Meth Poace	nod(Medium) Mob	Lesson Objective	References
	na N M	* 5. 5.		the shoulder. Describe the physi- cal therapy management of specific shoulder lesions. Discuss and demonstrate selected exercises of the shoulder.	Mentred (1) 2 8
Mobilization: The Shoulder 32-370-152	U	1 C 1 C 1 <sup>PE</sup> 2	JC JC I & PE <sub>2</sub>	Describe the accessory motions of shoulder joints. State the close- packed position and the capsular pattern of restriction for the major joints of the upper member. Demonstrate and state the purpose of selected mobilization techniques of the lower member.	Maitland(2)chai Mennell(2)chof 9-13
Evaluation: The Shoulder 32-370-153	U	1 L 1 D 1 PE <sub>1</sub>	1 L 1 D 1 PE <sub>1</sub>	List and describe the 6 types of end feel when evaluating passive C ROM. Compare and contrast the information from active and passive ROM. Perform an evaluation of the shoulder to include history in- spection of the part, bony and soft tissue palpation, selective tissue tension, neurological ex- amination, and appropriate special tests.	Hoppenfeld, (() ppx 1-34.
Planning Treatment Pro- grams: Shoulder 32-370-154	U	1 C 2 PE <sub>2</sub>	1 C 2 PE <sub>2</sub>	Evaluate patients and plan treat- ment programs for selected shoulder conditions. Discuss objectives and goals, and instruct patient and or family. Defend your plan.	
Therapeutic Use of Electri- city 32-370-155	U **	3 C 2 D 3 PE <sub>1</sub>	3 C 2 D 3 PE <sub>1</sub>	available generators. Discuss the physical and/or physiological effects of electrical currents on denervated muscle. Discuss the indications and technique of application for the therapeutic stimula- stion of innervated and denervated	stitute Paper: pp 26-74; JBour & Shaffer; Licht (1), ch 4&8; Licht (3 che 8-16; Watkins, che 12 & 14.
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Subject and LP Number	Class	Hrs, Neth Peace	iod(Medium) Mob	Lesson Objective	References
Mobilization: The Elbow, Wrist & Hand 32-370-161	U	The C 27 PE2 1 L	1 C 1 PE 1 L-2	Describe the accessory motions of the elbow, wrist and hand joints. State the close-packed position and the capsular pattern of re- striction for the major joints of the upper member. Demonstrate and	Maitland(2)ch 7; Mennell() ch/9-13.
א ייידוב איידוב			a	state the purpose of selected mobilization techniques of the lower member.	provision
Evaluation: The Elbow, Wrist & Hand 32-370-162	U	2 PE <sub>1</sub>	2 PE <sub>1</sub>	Perform an evaluation of the elbow, wrist and hand, to include inspection of the parts, bony and soft tissue palpation, neurologi- cal examination, and appropriate special tests.	Calliet, (6 Cyriax (1), ppg 255-307;
			911.		Hoppenfeld ( Ach 2,3; Wynn Parry, Ach 495-8.
Planning Treatment Programs: Elbow, Wrist, and Hand 32-370-163	υ.	1 C 2 PE <sub>2</sub>	1 C 2 PE <sub>2</sub>	Evaluate patients and plan treat- ment programs for selected elbow, wrist, and hand conditionsDis- cuss objectives and goals, and in- struct patient and/or family. Defend your plan.	
			•		
Orthotics: Upper & Lower Members 32-370-164	U	3 C 2 D 2 PE <sub>1</sub>	3 C 2 D 2 PE <sub>1</sub>	splints and braces, proper fit of each splint and brace, and condi- tions for which each splint or brace might be prescribed. De-	Din toto.
				dynamic handsplints. Given a pa- tient in a long or short brace; check the fit, analyze gait and make appropriate adjustments or suggestions. Describe or demon- strate the method of measuring fo a wheel chair using a wheelchair prescription form. Describe the three basic weelchair frames. State the basic components of a wheelchair, and given a specific patient, describe appropriate mod	r -
,			12	ifications.	1165

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Subject and LP Number	Class	Hrs, Meth Peace	nod(Medium) Mob	Lesson Objective	References
			2 C	Define facilitation as related to	Basmajian (2),
Facilitation echniques: ntroduction 32-370-175	U	2 C		therapeutic exercise. Explain how the various sensory modalities are used to facilitate movement. List	och op 14; [Brunብ· østrom (2); Knott & Voss;
	* (1)		1923 18 11	the three most common indications for the use of facilitation tech- for niques State the common CNS man- ifistations which should be con- sidered when using facilitation techniques. Contrast and compare the general characteristics of the PNF, Bobath, Brunnstrom and Rood approaches.	Payton, Hirt, Neuman. -
Facilitation Techniques PNF Approach 32-370-176	U	2 C 6 D 14 PE <sub>1</sub>	2 C 6 D 14 PE <sub>1</sub>	Discuss the philosophical bases of PNF. Define and discuss the basic principles of PNF to include mass patterns, maximal resistance, reinforcement, normal timing, man- ual contacts, commands and communi- cations, stretch, traction and approximation. Define, discuss and demonstrate the following tech- niques: Slow reversals, rhythmic initiation, repeat contraction, timing for emphasis, contract- relax, hold-relax and rhythmic stabilization. Describe and/or demonstrate extremity and trend patterns, functional mat activities and resisted gait training, utilizing the basic principles and techniques aboveGiven a patient diagnosis; evaluation results, and goals, choose the most appro- priate patterns, and techniques to achieve the stated goals.	19
Mobilization the Spine 32-370-177	U	2 C 2 D 4 PE 2 GS	2 C 2 D 4 PE <sub>2</sub> GS	Review back evaluation techniques and findings. State the joint play and/or component motions of the spine and sacroiliac joints. Given a normal subject, demonstrate passive movement tests and perform basic mobilization of the spine and sacroiliac joints.	Maitland (1); Mennell (2)(3) Alenne 114 Zon; Paris (2).
			17 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	Ъ. С.	166

## ACADEMY OF HEALTH SCIENCES MEDICINE AND SURGERY DIVISION PHYSICAL THERAPY BRANCH

M 32-370 560-3 059

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AN OVERVIEW OF ORTHOPEDIC MANUAL THERAPY FOR THE SPINE

OBJECTIVES: At the end of this unit you should be able to:

- 1. design and perform an appropriate subjective and objective evaluation of the spine, relating findings to possible pathology and treatment techniques.
- 2. perform one accessory and one physiologic mobility test/ treatment technique for the cervical and lumbar spine.
- 3. perform longitudinal traction (manual) as a general treatment technique in the cervical and lumbar spine.
- 4. understand your limitations in this area, and intelligently explore in detail the vastness of orthopedic manual therapy for the spine.

#### UNIT DESIGN:

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WEDNESDAY, JUNE 13, 1979, four afternoon class periods

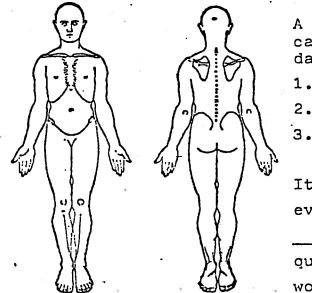
- Review of subjective evaluation for the spine
- Review of objective evaluation for the spine
- Relating evaluation to pathology to treatment

FRIDAY, JUNE 15, 1979, four afternoon class periods

- Treatment of the lumbar spine: Mobility testing Traction General mobilization Exercise
- Treatment of the cervical spine: Mobility testing General mobilization Traction
- Contraindications to manual techniques for spinal pain
- \*\* For the Friday session ladies will need a swimsuit top or a halte top that allows adequate visualization of the spine.

THE SPINE - SUBJECTIVE EVALUATION

2. з.



A body chart such as the one at the left can allow a rapid recording of a lot of data, such as:

It is essential to order your subjective evaluation, and always perform it in , so as not to forget any questions. What follows is the order that works the best for me:

AREA: Record the body chart information, detailing as much as you can.

## HISTORY:

First episode:

- What caused the pain to begin? - Any associated symptoms? - Where did it start? (neurological, viscer - Where did it start? (neurological, viscer - Where did it spread? - How did changes in postu: and activity affect it? - How long did it last? - How was it treated?

SUBSEQUENT EPISODES:

1. 2.

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- How many? - Similar to the first? How? - Increasing in sev

This attack:

- How did it come on? (sudden, gradual; - Is it worsening, stal incident, no incident) getting better? - Any associated sympto - When did it start?

BEHAVIOR OF PAIN:

- What aggravates the pain? - What eases the pain?
- How is it in the AM? thru the - What is the effect of re: day? in the PM? ٩
- How does a cough feel? of activity?

During the behavior section, it helps to find an sign For \_\_\_\_\_ functional activity find out:

This allows you to determine the <u>irritability</u> of the pain as a clue to how the objective evaluation will be

SPECIAL QUESTIONS: ( discovering contraindications)

For all spinal patients ask:

- 1. Any unexplained weight loss? (CA, metabolic disturbances)
- 2. General health good?
- 3. X-rays OK?
- 4. What medications is the patient on <u>now</u>, and during the week. BEWARE of \_\_\_\_\_!!!! They demineralize bones. This also gives you an idea of the \_\_\_\_\_.

Then:

#### Cervical

- 5. Any dizziness? (vert.art. compromise)
  - 6. Gait OK? (spinal cord compression)

#### Lumbar

- 5. How is bowel and bladder function? (compression of S4 nerve root)
- 6. Pain, paresthesia, anestthesia in the saddle area? (S4 root)

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## THE SPINE - OBJECTIVE EVALUATION

## INSPECTION: observe

ADL: gait? willingness to move?

AIDS: crutches? collar? corset? heel lift?

POSTURE: view from behind and to the side: kyphosis? lordosis? scoliosis? flattened areas? areas of increased curve? Level and symmetry of:

iliac crests PSIS - fibular heads gluteal folds lateral malleoli greater trochanter

SHAPE: body type- obese? bony deformities? SKIN: color (circulation)? scars?

MOVENENT TESTS: <u>Active physiological</u>: look for which joints \_\_\_\_\_ and which \_\_\_\_\_ Compare one side with \_\_\_\_\_. Also observe any rhythmic slippage, local blocking, and spasm. Test: FLEXION - be careful!! ( do last)

EXTENSION 2 DE CATEIUITE ( do 1000 EXTENSION LATERAL FLEXIONS ROTATIONS

		. 435170	<u>911,02020,2</u>		-			
5	•	Passive	accessory	•				
	1		end feels:	ve, note: spasm? hypermobile	? b	ony block?	bouncy?	
	PAI		(for condit emperature?	ion) moisture?	hyperasth	esia?		?
		Muscles	: atrophy?		? to	ne?		
		Subcuta	neous <u>tissu</u>	e: edema?		<b></b>	•	
	2	Ligamen	ts : thicke	ned? lax?	tender?		•	
			(for positi ae and bony	on) landmarks.	C	r may not b	e signif:	icant.
	NE		AL: This i least perfo	s best done rm it:			•	
20	•	2.						•
		Monoseg	mentally in	nervated mu	scles:			
67		5	CERVICAL	- 20		LUMBAR		
	e.	C 5 C 5-6 C 6 C 7	Trapezius Deltoid Biceps Wrist exte Triceps/ w Thumb exte Interossei	rist flexor nsors	L 3 L 4 L 5	Psoas Queads Ant. Tibia Ext. hallu Peronei/ a Hamstrings	astroc/ 1	onei
		Reflexe	S	¥	· ·			
		C 5-6 C 7	.Biceps jer Triceps je		L 3 L 5-S	Knee jerk 1 Ankle jer	rk	
		For	both; Bab	inski sign:	for cort	icospinal t	cract	·
		Coordin	ation: gai	t			•	
		Nerve s	tretches:	a *			•	
•		T 1		lbow flexio	n L5-S2	SLR '		
			10 19	s. <u>s</u>	L3	РКВ	•	te.
*			2					
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Cor	onsidering pr	oduced spinal pain, one can have two
gei	eneral types of overload, to	rsional and
<b>m</b> .07		2
	DRSIONAL:	an the freet inists
- 1	May affect either the disk	
	DISK: as it dehydrates wi	
1.	Loosening and migration of	1752
	Hx: - sudden onset, with	or without trauma
	pa - any age	
050 <b>.</b>	- uni or bilateral pa	in '
•	Signs: - may be	in one position
	- one or several mot	ions with decreased range, others less, or completely OK
•	- usually no	pain.
	Treatment: Consider: mobil	•
	for unstable condition	n .
-		
2.	Annular distortion due to	bulgy nucleus pulposus
	Hx: - Onset	a heavy lifting activity or other "we
	on" incident.	
•	- pain develops later incident.	in the day, or the next after
	- pain uni or bilater	al
	- not in elderly	an. 2 <sup>1</sup>
	Signs: - can be associate	d with a postural deformity such as
	- ROM variable: somet	imes several motions blocked and pain
	OR (rarely) no a	rticular motion hurts.
	- May be some	
	Treatment: If there is a in mobilizations.	ostural deformity: specially designed
	- If no postural defo	rmity: high poundage static lumbar
	traction. - Flexion exercises a	are best avoided.
•		osus and subsequent nerve root com-
3.	pression	-
	Hx: Usually	history of "attacks" of increasing
	· severity.	segmentally spreading from
· ' 1	- Graduar onset parn, s - Unilateral	SCEWGRIGHTT, Shienerus trom
%.₽	- Not in elderly · ">	
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1455 12	3.	DISK MELINIACION, COM C
•	•	<pre>Signs: Paresthesia, weakness - spinal motions may be full range, OR several limited more than the others signs of S4: SEND BACK TO MD!!!!</pre>
	i.	Treatment: If muscles are weak, condition can't be reversed. - Static Traction, high poundage to
	FAC	CET:
	4.	Pinched intrarticular meniscus, loose body
		Hx:onset - Local pain, unilateral(primarily) , - Non-migratory pain.
		Signs:locked joint - some motions limited, some not.
		Treatment: Mobilization, exercises, inter- mittent traction.
	ÅY:	IAL OVERLOAD
	1.	Facet Arthritis (weight bearing facets)
5.		Hx: Gradual onset, may or may not be related to trauma - Pain pattern - Pain increases in "weight on" positions.
	9	Signs: Patient usually obese - beer belly, - Generalized pain to all motions. - No neurological signs
		Treatment: exercises.
	2.	Cômpression fracture
		Hx: Sudden onset, usually with a history of heavy lifting or falling
		person, female - osteoporotic
	ар 195	<pre>Signs: "Weight on" or "weight off" positions comfortable. Patier is in agony getting up from lying down. - All motions may hurt and pain unless gross fracture - X-ray evidence of fracture</pre>
		Treatment: immediate: no manual treatment avails: all will agera
		recovered: GENTLE PA's (mobilization) may help to decrease generalized ache.
	з.	Spondylolysthesis
•	ŧ	Hx: Gradual onset of back and leg aching. - Prolonged standing increases the ache.
,	ŀ •	Signs:
•		Treatment: send back to MD. NO MOBILIZATION, ESPECIALLY IN A
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The available ROM when testing passively can be categorized as so:

0 No movement

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2

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6

- Markedly decreased movement
- Slightly decreased movement
- Normal movement
- 4 Slight increase in movement
- 5 Harked increase in movement
  - Complete instability

"Mobility tests" can also be used as specific mobilizations. Maitland's grading system for treatment movements is so:

Grieve summarized the following rules for orthopedic manual treatment of the spine:

#### MOBILISATION / MANIPULATION / TRACTION THEATMENT

#### SUMMARY OF RULES OF PROCEDURE

- 1. Bear in mind contra-indications, and the conditions requiring extra care and gentleness. DO NO HARM!
- 2. Examine thoroughly, and carefully assess patient's signs and symptoms for indications of initial technique and likely progress.
- 3. Always try to localise the problem(s) and work in a specific way, i.e. localise the treatment, too.
- Begin feeling your way forward by exploratory mobilisation, or traction, and keep the treatment under control by frequent re-assessment and precise recording.
- 5. Each step should be reasoned. and roverned by the response to the previous steps in treatment.
- 6. Use vigorous procedures only if necessary; for the most part only when adequately applied mobilisation is not achieving the degree of improvement reasonably expected.
- 7. If a procedure is being effective, do not substitute another until it censes to produce adenuate improvement. Discard or modify techniques which are unproductive.
- 8. Remember to warn patients about treatment soreness and temporary after-effects; this relieves their unnecessary anxiety between treatments.
- 9. Do not over-treat; when signs and symptoms are cleared, STOP.
- 10. NEVER push through spasm when it is protecting the joint you are treating, and treat joint irritability with respect.

CONTRAINDICATIONS TO ACTIVE TREATMENT

OF SPINAL PAIN

## PRESENCE OF:

in

- 1. Advancing autoimmune disease, such as rheumatoid arthritis
- 2. Active or past bacterial infection affecting soft tissues or bone.
- 3. Neoplasm
- 4. Signs of advanced arteriosclerosis, such as a calcified aorta, vertebral artery.
- 5. Dangerous neural compression, such as indications of <u>S4</u> root compression.
- 6. Osteoporosis, or other gross bony deformity.
- 7. Pregnancy, last trimester, or history of miscarriage.
- 8. Severe neuosis

READING LIST

- $\underline{WHY}$ :
- 1. become slack. Steroids cause osteoporosis.
- 2. Will weaken bone, predisposing to \_\_\_\_\_.
- 3. Undiscovered
- 4. Vigorous treatment may cause arterial \_\_\_\_\_, or occlusion.
- 5. S4 crucial for \_\_\_\_\_ and bladder control.
- 6. Predisposes to fracture or
- 7. Vigorous movement may cause miscarriage.
- 8. Unpredictable reaction to definitive, pain relieving treatment

Calliet, R.: Low Back Pain Syndrome, ed 2. Philadelphia, F.A. Davis Company, 1968. (Good rationale for Williams exercises)

- Calliet, R .: Neck and Arm Pain. publisher same as above. 1964
- Cookson, JC: Orthopedic manual therapy : an overview, Part II the spine. Phys Ther 59: Mar 1979
- Cyriax, J. Textbook of Orthopedic Medicine, Volume One: Diagnosis of Soft tissue lesions, ed 6. Baltimore, The Williams and Wilkins Company, 1975 (Good rationale for disk pathology)
- Cyriax, J.: Textbook of Orthopedic Medicine, Volume II: Treatment by manipulation, massage and injection, ed 8. Wms and Wilkins 1971. ( General mobilizations, traction "how to's")
- Grieve, G.: Mobilisation of the Spine: Notes on examination, assessment, clinical method . Publisher? 1975. (Quoted treatment rules from this booklet)
- Haitland, GD: Vertebral Manipulation, ed 4. London, Butterworth and Co. (Publishers) LTD 1977 (all pictures from this bookexcellent for evaluation and treatment!)

Maitland, GD: The Vertebral Column: Examination and recording guide, ed. 6. Adelaide, Virgo Press, 1977. Mennell, AJ McM: Back Pain: Diagnosis and treatment using manipulativ techniques. Boston, Little, Brown and Co. 1960

Paris, SV: Course notes: The Spine - Etiology and treatment of dysfunction including joint manipulation, January 1975 issue. Handed out at Mr. Paris's course (Evaluation and treatment techniques, facet theory and substantiating articles within)

## FOR FURTHER COURSE WORK:

These first two are offered quite regularly and are an example of how divergent the rationale and treatment approaches can be,with essentially the same evaluation!

SV Paris: evaluation, mobilization, mobility testing, specific techniques

SV Paris, President Institute of Graduate Health Sciences 20 Linden Ave. NE Atlanta, GA 30308

J Cyriax, MD: evaluation, disk pathology, general Grade V mobilization

> Postgraduate Course in orthopedic Medicine Dept. of Orthopedics University of Rochester School of Medicine Rochester, NY

A variety of short courses are always announced in the journal (P Categorized by type:

Australian method: Peter Edgelow, Jim and Jennifer Lynn, Linda Van Housen

Norwegian: Ola Grimsby

These folks also offer quality courses: John Mennell, MD, Sandy Burkart, PhD, Rick Bowling, Richard Ehrhart.

## ACADEMY OF HEALTH SCIENCES, US ARMY MEDICINE AND SURGERY DIVISION PHYSICAL THERAPY BRANCH

LP 32-370-558 040

## THERAPEUTIC APPLICATION OF EXERCISE: LOWER MEMBER MOBILIZATION 1L, 2D, 4PE

COURSE PRESENTED TO: 6H-65B US Army-Baylor University Program in Physical Therapy.

PLACE: Physical Therapy Lab

**REFERENCES:** 

Maitland, G.D., <u>Peripheral Manipulation</u>, 2 ed., London-Boston: Butterworths 1979, chapter 8. Mennell, John McM., Joint Pain, Boston: Little Brown & Co., 1964, chapters 9-13.

STUDY ASSIGNMENT: Prior to class review the anatomy and kinesiology of the hip, knee, and ankle.

STUDENT UNIFORM AND EQUIPMENT: Lab uniform,

TOOLS, EQUIPMENT AND MATERIALS:

M 32-370-558-1, M 32-370-558-2 - Issue before hours 1 and 2

M 32-370-558-3 - Issue before hours 3 and 4

M 32-370-558-4 - Issue before hours 5 and 6

**PERSONNEL:** 

INSTRUCTIONAL AIDS: Model of skeleton and chalk board

TROOP REQUIREMENTS: "None

TRANSPORTATION REQUIREMENTS: None

MEIHOD OF INSTRUCTION: Demonstration and Practical Exercise

- I. INTRODUCTION (5 min)
  - A. Opening Statement: With the knowledge of the anatomy and kinesiology of low member that we have learned over the past several months, we can begin examining the joints and soft tissue for possible joint dysfunction related to restricted motion. Mobilization techniques will be used to evaluate and restore normal joint motion.
  - B. Objectives:
    - 1. Describe the accessory motions of the hip, knee, ankle and foot joints.
      - 2. State the close-packed position and capsular pattern of restriction for the major joints of the lower member.

- 3. Demonstrate and state the purpose of selected mobilization techniques of the lower member.
- C. Class Brocedure and Lesson Tie-In: This block of instruction will follow the anatomy, kinesiology, and therapeutic exercise of the regions of the lower member.

#### II. EXPLANATION (20 Min)

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- A. Review Terminology
  - 1. Physiological movements movements which the patient can carry out actively.
  - 2. Accessory movements movements which cannot be performed by voluntarily.
  - 3. Grades of movement
    - a. Stretch articulation
    - b. Progressive oscillation
    - c. Grade I passive oscillations at the beginning of the range at a rate of 2 or 3 per second.
    - d. Grade II passive oscillations through the mid range.
    - e. Grade III passive oscillation from the mid to end of range.
    - f. Grade IV passive oscillations at the end of range.
    - g. Grade V (Manipulation) low amplitude, high velocity thrust at the end of range for the purpose of increasing range.

#### QUESTIONS:

For what general types of joint condition is mobilization directed at?

#### ANSWER:

Mobilization is directed at 3 types of joint condition

- Restoring structures within a joint to their normal position, i.e., meniscus tear.
- 2. Stiff painless joints can be stretched to restore normal range and mechanics.
- 3. Painful joints which limit active motion may be treated to decrease pain and maintain normal range during an acute episode.

i,

- B. Principles of Performing Joint Mobilization
  - 1. Patient must be relaxed. A modulity sometimes helps.
  - 2. Therapist must ensure patient comfort by positioning, proper grip, and use of mechanical advantage.
  - 3. Therapist must embrace the part to be moved in order to feel the movement and control the movement.
  - 4. The therpist must be comfortable by using proper body mechanics and leverage.
  - 5. Therpist shall not cause increased pain.
- C. Mobilization Technique
  - 1. Assessment
    - a. At initial evaluation
    - b. At the beginning of each treatment

c. At the end of each treatment

d. Questions to ask

- (1) How have you been? This leaves it open for a patient response.
- (2) What do you feel was the effect of yesterday's treatment? Better or worse?
- 2. Signs of an abnormal synovial joint
  - a. Constant pain even at rest in the neutral position.

b. Constant pain except in a neutral rest position

- c. Painless at rest but painful on movement.
- d. Painless at rest and with movement but stiff.
- e. Pain and stiffness majority of patients.
- D. Close packed position of hip: Extension and Internal Rotation
- E. Capsular pattern of hip: limited in Flex/Abd/Int. Rot.

- F. Accessory Motions of the Hip
  - 1. Inferior glide: necessary for hip flexion and hip abduction
  - 2. Anterior glide: necessary for external rotation
  - 3. Posterior glide: necessary for internal rotation
  - 4. Traction: for general capsular stretch
  - 5. Lateral distraction: for general capsular stretch

## III. DEMONSTRATION (20 min)

- A. Hip Flexion/Adduction Test: To find the limitation the hip should be moved through an arc of flexion in adduction from 90° to 140°. The therapist then applies pressure through the shaft of the femur. Pain without compression indicates capsular problem; pain with compression indicates articular problem.
- B. Joint Massage
  - 1. Position of Patient (P): Supine
  - 2. Position of Therpist (T): Standing
  - 3. Method: Therapist places hand on greater trochanter and pushes medially. Other hand is on the knee and performs ER/IR or Flex/ext of the hip.
  - 4. Uses: to decrease pain
- C. Inferior Glide or Long Extension or Traction
  - 1. P Supine with belt across ASIS's for stabilization. Hip in slight abduction and external rotation.
  - 2. T Grasps the leg at the femoral condyles and the ankle
  - 3. M Apply traction and inferior glide by leaning backward with the trunk.
  - 4. Uses General capsular stretch and to increase flexion and hip abduction
- D. Lateral distraction

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- 1. P-- Supine with hip and knee at 90° flexion.
- 2. T Position belt around proximal femur and his waist and hands on condyles and ankle

- 3. M Lateral distraction is performed locking pelvis backward and moving femur into adduction
- 4. Uses general capsular stretch to increase adduction
- E. Inferior Glide in Flexion
  - 1. P Supine with hip and knee flexed to  $90^{\circ}$
  - 2. T Supports lower leg by letting it rest on trapezeal ridge. Proximal femur is grasped
  - 3. M Inferior glide is imparted with hands while rocking the thigh into flexion
  - 4. Uses to increase flexion
- F. Anterior Glide

1

- 1. P Prone with knee bent to  $90^{\circ}$
- 2. T Supports knee and lower leg. The mobilizing hand contacts the posterior aspect of the proximal femur with the heel of the hand
- 3. M The mobilizing hand imparts an anterior glide to the head of the femur
- 4. Uses to increase external rotation and stretch posterior capsul.
- G. Anterior Glide
  - 1. P Supine
  - 2. T Grasps proximal femur level with trochanter
  - 3. M Anterior glide is imparted by lifting
  - 4. Uses For increased ext. rotation.

## H. Posterior Glide

- 1. P Supine
- 2. T Supports distal thigh and places mobilizing hand over proximal femur
- 3. M Posterior glide is imparted to femoral head
- 4. Uses To increase internal rotation

## IV. PRACTICAL EXERCISE (60 min)

- A. Students pair off and one acts as therapist and second student acts as subject for performing the demonstrated mobilization techniques.
- B. Students Reverse Roles.
- C. Instructor Supervises Techniques

## Hours 3 and 4

## V. DEMONSTRATION (20 min)

- A. Femorotibial Joint
  - 1. Long Axis Distraction
    - a. P Sitting on the edge of the plinth
    - b. T With back to patient, both hands grasp distal tibia proximal to the malleoli
    - c. M A long axis distraction is imparted through varying degrees of flexion of the knee
    - d. Uses general capular stretch
  - 2. Anterior glide of tibia on femur
    - a. P Supine with the knee slightly flexed from the limit of extension.
    - T Stabilizes distal femur anteriorly and grasps posterior aspect of proximal tibia
    - c. M An anterior glide is imparted to the tibia on the femur
    - d. Uses to increase kneepextension
  - 3. Posterior glide of tibia on femur: Position is the same as for anterior glide except hands are reversed. Uses - to increase knee flexion.
  - 4. Internal Rotation
    - a. P Supine, with the knee flexed to  $90^{\circ}$
    - T Grasps proximal tibia with thumbs gaining a purchase on the tibia

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- c. M Both hands rotate the tibia medially
- d. Uses To increase knee flexion

## `LP 32≏370-558` 040

- 5. External Rotation: This is performed exactly like internal rotation except that the tibia is moved externally on the femur. This motion is used to increase knee extension.
- 6. Valgus Tilt and Varus Tilt: These are performed similar to the collateral ligament integrity test and are used as a general capsular stretch.
- B. Patello Femoral Joint
  - 1. Medial Lateral Glide
    - a. P-- Supine with the knee slightly flexed  $(10^{\circ})$
    - b. T Contacts the lateral or medial petellar border with his thumb pads.
    - c. M Medial or lateral glide is imparted to the patella
    - d. Uses General mobilization of restricted patellar movement
  - Superior Inferior Glide: Performed in a similar manner to mediallateral glide. Superior glide is necessary for knee extension. Interior glide is necessary for full knee flexion.
- C. Proximal Tibio Fibular Joint:
  - 1. Anterior Ppsterior Glide
    - a. P Supine with knee\_flexed to  $90^{\circ}$
    - b. T Grasps the head and neck of proximal fibula with the index, long finger and thumb. Care is taken to avoid the common peroneal nerve.
    - c. M The proximal fibula is moved anteriorly and posteriorly
    - d. Uses Fibular head must move forward on knee flexion and backward on knee extension

VI. PRACTICAL EXERCISE (70 min)

A. Students Berform Mobilization Techniques in Bairs

B. Instructor Supervises Techniques

Hours 5 and 6

## VII. DEMONSTRATION (20 min)

NOTE: Pass out M 32-370-558-3 Mobilization of the Ankle and demonstrates the following techniques:

- A. Distal Tibio Fibular Joint: Anterior Posterior Glide Use - This accessory motion is necessary to allow ppreading of the distal tibio fibular joint which is required for full dorsiflexion.
- B. Ankle Joint:
  - 1. Long axis distraction: This accessory motion must occur to allow full plantar flexion
  - 2. Anterior glide of the talus on the tibia: This accessory motion must occur with plantar rlexion at the ankle
  - 3. Posterior glide of the talus on the tibia: This accessory motion must occur during dorsiflexion
- C. Subtalar Joint:
  - 1. Long axis distraction is performed for a general capsular stretch
  - 2. Valgus Tilt: This accessary motion is necessary for eversion
  - 3. Vavus filt: This accessory move next is necessary for inversion at the subtalar joint
  - 4. Dorsal Rock of Calcaneus on the Talus: This accessory motion occurs at the end of full dorsiflexion
  - 5. Plantar Rock of Calcaneus on the Talus: This ascessory motion occurs at the end of full plantar flexion
- D. Talonavicular Joint: Dorsal-Plantar glide is performed to increase forefoot motion
- /E. Naviculocuneiform Joint: Dorsal Planter glide is performed to increase forefoot motion
- F. Cuneiform Metatarsal Joints: Dorsal-Planter glide is performed to increase forefoot motion
- G. : Cuneiform Metatassal/Cuboid-Metatarsal Joints: Rotation is performed to increase pronation and supination of the forefoot.

VIII, / PRACTICAL EXERCISE (70 min)

Students perform mobilization techniques on each other in pairs.

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B. Instructor supervises and answers questions

## IX. <u>SUMMARY</u> (5 min)

A. Questions From Students

B. Review of Main Points

1. Terminology

i,

- 2. Principles of Mobilization
- 3. Mobilization Techniques
- 4. Specific Mobilization for the lower member
- . C. Closing Statement: With the use of joint mobilization we are able to restore joint mobility much quicker than with traditional methods. A thorough knowledge of anatomy and many hours of practice will be essential to game expertise in this form of treatment.

# Jack J. Pursel

ATTORNEY AND COUNSELOR AT LAW

SUITE 1610 VALLEY BANK PLAZA 300 SOUTH FOURTH STREET LAS VEGAS, NEVADA 89101 TELEPHONE (702) 382-6321

May 6, 1981

The Honorable Robert E. Robinson Assemblyman Nevada State Assembly Carson City, Nevada

> Re: S.B. 492 A Bill extending regulation of bank holding companies, mergers, etc.

Dear Bob:

As I mentioned to you in our telephone conversation last Saturday, I am seriously concerned with the passage of **5**.B. 492 which is presently being considered by your committee.

Will you please give consideration to the enclosed objections, criticisms and comments and to the proposed changes in the language of the bill as drafted.

Thank you for your good work as Assemblyman and for your attention to this important matter.

Sincerely, PURSEL

JJP:bl Enclosure

#### SENATE BILL 492

Page 1

Lines 14-17 Leaves ambiguous the situation of a bank holding its own shares as a fidiciary for such as a family trust of a shareholder; or the situation of holding treasury stock as a result of its own shares being surrendered as collateral for a defaulted loan which was made as an arms-length transaction.

RECOMMEND: Amend page 1, line 15 by inserting:

"....one or more banks, other than itself;" and amend page 1, line 17 by inserting: "....more banks, other than itself; or"

Page 1,

Lines 18-23 Imputes knowledge to the directors and officers of any bank as to the affairs and circumstances of all of that bank's shareholders, even when the shareholders are acting independently of the bank, each other shareholder, and even each other shareholder's trustee(s). The language of the bill would impute a criminal liability to the officers and directors for an omission of which they could have no knowledge, since a bank can require reports of investments in other banks made by directors and officers but not its own general shareholders.

RECOMMEND: Delete page 1, lines 18 through 20, inclusive; Also amend page 1, line 23:

".....bank or its (stockholders or members) officers or directors,"

## Page 2,

Lines 11 and 12 are so open-ended and general as to invite ambiguity and abuse. Inasmuch as the requirement of lines 8 through 10 so

Thoroughly exhaust the affairs of a bank holding company, lines 11 and 12 are not needed.

RECOMMEND: Delete page 2, lines 11 and 12.

Page 2,

Lines 14 and 15 leave the dates and frequency of subsequent reports too vague and open to abuse by permitting reports to be required daily, weekly, monthly or even at random. This can be corrected by establishing the frequency of reports with specific language.

RECOMMEND: Amend page 2, lines 15:

"...., and <u>annually</u> thereafter (on dates designated by the superintendent)."

Page 2, lines 16 through 25 are so broad, sweeping, discretionary and potentially devastating to every banking corporation as to invite abuse; and to assure allegations of abuse and appeals from every investigation ever undertaken as being in violation of due process and the equal protection clause of the constitution. Inasmuch as this section of NRS would be involved whenever an out of state holding company felt it was being subjected to a different standard than a Nevada resident, the language herein would invite litigation in Federal courts, and be an open invitation to the Federal government to interject itself into the minutest area of state banks and banking regulation, due to the broad sweep of power and discretion granted in lines 16 and 19, and the punitive financial burden imposed by lines 24 and 25. There is a need to make substantial modifications in the language of the bill, by limiting attention to the proper province of the superintendent, establishing a statutory frequency of investigations

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and removing the punitive nature of the financial burden.

RECOMMEND: Amend page 2, lines 17, 18 and 19:

"....of and into the affairs of every bank holding company and every <u>banking</u> subsidiary thereof doing business in this state upon the filing of each annual report (as often as the superintendent may deem necessary)."

Further RECOMMEND: Delete page 2, lines 24 and 25. Page 2, lines 26 through 42 would establish an entirely new principal in Nevada banking law; that of requiring the affirmative action of a strictly appointive official before citizens may protect their own assets and the financial integrity of all Nevadans. It requires but minimal exercise of foresight to anticipate that some future day would see a distressed or nonliquid state bank tendered a merger offer with a stable out-of-state institution. The existing statute would expedite such a merger as properly protecting the financial needs of the state as a whole. Under the existing statute, the superintendent has all the authority necessary to sue to prevent any unlawful or inequitable merger, through NRS 666.046 and NRS 658.195, as well as to bring action to prevent any consolidation or merger which is a clear and convincing threat to the public good. The essential thrust of the proposed language would be to make the superintendent himself the investigator, prosecutor, judge and jury with no burden of proof save his administrative discretion. The proposed language in effect makes all proposed mergers or consolidations guilty of restraint of trade until proven otherwise. And since an administrative act is accorded such presumption of propriety in all judicial proceedings, the burden of proof is now placed entirely upon the industry.

RECOMMEND: Amend page 2, lines 27 and 28 by deleting:

"A state bank may (, with the approval of the superintendent,)"

Further RECOMMEND: Delete page 2, lines 31 through 42, inclusive, renumbering subsections 3, 4, 5 and 6 of NRS 666.035 to retain the numbering of the existing statute.

Further RECOMMEND: Amend page 3, lines 33 and 34 by deleting: "....(, with the approval of the superintendent,)....."

Further RECOMMEND deleting page 3, lines 37, 38 and 39, retaining the numeration of the subsections of the existing statute for NRS 666.045.

Page 3, lines 29 through 31; At this point, the proposed language merely makes a minor correction of syntax. However, both the existing statute and the proposed language of this bill leave a discomforting anomoly. While the <u>license</u> to operate as a state bank is terminated, the state banking corporation charter remains in limbo, awaiting only a refiling by its holders with the FDIC to spring forth anew as a Phoenix. This would invite a perpetual cycle of mergers and relicensing or extensive litigation to settle. the matter.

RECOMMEND: Amend page 3, lines 30 and 31, by inserting:

"....the license to operate as a state bank, and the Nevada state banking corporate charter (shall automatically terminate) automatically terminates."

[Wayne Strong and Stanley Margolis]



May 11, 1981

William Elliot c/o Las Vegas Downs 711 Racetrack Road Henderson, Nevada 89105

Dear Mr. Elliot:

Enclosed herewith you will find financial statements on British American Kennel at Las Vegas Downs up to the end of April.

To summarize: We have lost \$21,340.58 to date and we are top kennel!

Moreover, we have no intention of continuing to lose money whilst the track operators, the state and the city make a profit, effectively, at our expense.

No one can make a profit if there are no greyhounds to race and with the present handle and purse money structure no one can afford to race greyhounds at Las Vegas. It is frankly just a matter of time before every kennel withdraws.

Today, it costs approximately \$2000 to breed, rear and school a greyhound to racing age. You can then anticipate an <u>average</u> of 24 months racing life, i.e. to age 3½ or, alternatively, say 150 races. If that dog were leased to British American Kennel (or any other kennel) at Las Vegas on normal 35% lease terms it would, therefore, have to run out \$5714 for the owner just to get back his \$2000 investment--leaving aside profit or even interest on his money.

With Grade A win purses averaging \$75, that greyhound, therefore, has to win over 50% of its races all in Grade A for the owner to get his money back!

I would also point out that an increase in purse money from 3% to 5%, in itself, will not solve the problem. All it will do is reduce our losses--but it will reduce them to a level whereby we can afford to absorb them until the handle increases.

To use the same example as above, if purses were increased to 5% but the handle remained the same, Grade A purses would increase to \$125. For a dog owner on 35% lease terms, therefore, he would receive \$43.75 for each win and would need 46 wins to

All inquiries to: 8733 Sunset Blvd., (Suite #205), Los Angeles, CA 90069 Phone: (213) 652-9038

page two

recover his \$2000 investment. This is still requiring over a 30% win percentage which is impossible to achieve on an overall basis.

British American's win percentage is currently 24.9% but again I would emphasize we are top kennel and even so we cannot expect to maintain this high a level.

With eight dogs in each race it is obvious that the overall average win percentage must be 12½%. Equally a dog will finish second 12½% of the time and likewise third and fourth. Overall, therefore, a dog will have one win, one second place finish, one third and one fourth from every eight races. This equates to the equivalent of two win purses for every eight races.

To achieve a <u>median</u> break even situation, therefore, a greyhound must earn \$5714 from 19 wins, 19 seconds, 19 thirds, and 19 fourth place finishes (i.e. in each case 12½% of an estimated racing life of 150 races). This equates to an average win purse of just over \$150. So even with 5% win purses we still need to see the handle increase substantially and let me repeat this is just to recover our investment!

I am sure that the legislators are totally unaware of the above economics and feel sure that if they are educated to the facts they will wholeheartedly support the requested increase.

Unfortunately, and with the utmost of respect to you, dogmen generally do not have a grasp of the facts or figures involved. Consequently they do not have the ability to support their claim that they are losing money. Hopefully this letter and the enclosed accounts will help.

Our accountants are Price Waterhouse & Co. and every single figure on our accounts is accurate and can be verified.

We have now cut our expenses to the bone but even so we need to win approximately \$1700 per week to break even and as top kennel we have only achieved that level once since the track opened.

Dogmen in the past and (so far as Las Vegas Downs are concerned) in the presents have been looked upon by track operators as a necessary evil. They have to have us because we supply the dogs but they would rather do without us and just sell hotdogs. It would be interesting to see how many hotdogs they'd sell if the buying public didn't have racing to watch whilst they were eating them!

With kind regards. Yours sincerely,

Shanden Manash

Stanley Margolis

	Income & Expendit	ure Account	
	For the period January 1	.981	
		PERICD	YEAR TO DATE
Purse Money		\$ 3304.21	
Other Incom	e		*
TOTAL	INCOME	<u>\$ 3304.21</u>	
Kennel Setu	Ip Costs	\$ 544.99	-
Commissions	: Payable	1039.76	
Wages and I	Imployee Benefits	2330.40	
Transportat	ion Costs	175.00	
Feed		811.59	
Vet Fees, M	Medication & Greyhnd Supplies	335.00	
Rent and To	elephone	522.74	
Motor Expe	ises	543.75	
Printing,	Postage & Programs	2.50	
Insurance		108.00	÷
Bank Chgs	and Loan Interest	159.99	
License Fe	•	240.00	
Sundry Exp	enses	62.08	
_	on Greyhounds	331.81	
-	Kennel Equipment	145.18	
TOTA	L EXPENSES	\$ 7352.79	<u>م</u>
Net Income	/(Loss) for the period	S_(4048.58)	1

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#### Balance Sheet as at January 31, 1981

#### FIXED ASSETS

Greyhounds, at cost	\$	14000.00			
Lass depreciation to date		1327.25	*	Ş	12572.75
		5226.47			
Kennel Equipment, at cost		5220.47			
Less depreciation to date		562.77	-		4663.70
				\$	17336.45
CURRENT ASSETS					
Feed Inventory	s	410.13			÷
Deposits and Prepayments		1557.26			
Purse Money Receivable		1389.04			
Cash at Bank and in Hand		477.37			
			-		
	Ş	3833.80			
			3		.*
CURRENT LIABILITIES					
Loan Account-STALRA Family Partnership	\$	10000.00			
Commissions Payable		284.79			_
Sundry Creditors		2265.65			
· ·	\$	12550.44	_		
NET CURRENT ASSETS				_\$	(8715.64)
TOTAL ASSETS				5	8619.81
CAPITAL ACCOUNTS					2
Stanley Margolis					2
Balance, brought forward	\$	7454.85	·		
		•			

Capital introduced/(withdrawn) --O--Share of profit/(loss) for the period (2024.29) Balance carried forward \$ 5430.56 Wayne Strong Balance, brought forward \$ 4674.84 Capital introduced/(withdrawn) \$ 538.70 Share of profit/(loss) for the period (2024.29) Balance carried forward \$ 3189.25

\$ 8619.81

For the period 'February		
	PERIOD	YEAR TO DATE
Purse Money	\$ 5523.98	\$ 8828.19
Other Income	-0-	-0-
TOTAL INCOME	\$	\$ 8828.19
Kennel Setup Costs	\$ 213.04	\$ 758.03
Commissions Payable	1903.42	2943.18
Wages and Employee Benefics	2183.00	4513.4C
Transportation Costs	195.00	370.00
Feed	856.01	1667.60
Vet Fees, Medication & Greyhnd Supplies	222.88	536.88
Rent and Telephone	635.14	1157.88
Motor Expenses	528.39	1072.14
Printing, Postage & Programs	90.00	92.50
Insurance	108.00	216.00
Bank Chgs and Loan Interest	161.35	321.34
License Fees	o	240.00
Sundry Expenses	93.97	156.05
Depreciation Greyhounds	331.81	663.62
Kennel Equipment	145.18	290.36
TOTAL EXPENSES	\$ 7667.19	• \$ 15019.98
Net Income/(Loss) for the period	\$(2143.21)	\$ (5191.79)

## Balance Sheet as at February 28, 1981

			14 A
42 - 41	FIXED ASSETS		
	Greyhounds, at cost	\$ 14000.00	
	Less depreciation to date	1659.06	\$ 12340.94
	Kennel Equipment, at cost	\$ 5226.47	
	Less depreciation to date	707.95	4518.52
			\$ 16859.46
1.10	CURRENT ASSETS		
	Feed Inventory	5 834.76	
	Deposits and Prepayments	1574.05	
	Purse Money Receivable	758.31	
	Cash at Bank and in Hand	1336.27	
	с. ж	\$ 4503.39	
	CURRENT LIABILITIES		
	Loan Account-STALRA Family Partnership	\$ 10000.00	-
2	Commissions Payable	789.01	0.05
	Sundry Creditors	3153.89	
		\$ 13942.90	
	NET CURRENT ASSETS		s (9439.51)
	TOTAL ASSETS		\$ 7419.95
	CAPITAL ACCOUNTS		
*	Stanley Margolis		
	Balance, brought forward	\$ 5430.56	
	Capital introduced/(withdrawn)	-0-	
	Share of profit/(loss) for the period	(1071.51)	
	Balance carried forward		\$ 4358.95
	Wayne Strong		
	Balance, brought forward	\$ 3189.25	
	Capital introduced/ twithdrawn)	943.35	
	Share of profit/(loss) for the period	(1071.60)	3061.00
	Balance carried forward		
	<i>x</i>		\$ 7419.95

	Income & Expenditure Account	
For March 1981	and period January 1, 1981 to March 31, 198	1

	PERIOD	Y	EAR TO DATE
Purse Money	\$ 4575.67	\$	13403.86
Other Income	-0-	_	-0-
TOTAL INCOME	\$ 4575.67	\$	13403.86
Kennel Setup Costs	\$ -0-	\$	758.03
Commissions Payable	1383.46		4326.64
Wages and Employee Senefits	1991.50		6504.90
Transportation Costs	-0-		370.00
Feed	653.59		2320.19
• Vet Fees, Medication & Greyhnd Supplies	244.60		802.48
Rent and Telephone	451.47		1609.35
Motor Expenses	272.95		1345.09
Printing, Postage & Programs	133.60		226.10
Insurance	138.21		354.21
Bank Chgs and Loan Interest	184.80		506.14
License Fees	-0-		240.00
Sundry Expenses	50.01		206.06
Depreciation Greyhounds	331.81		995.43
Kennel Equipment	145.18		435.54 🥯
TOTAL EXPENSES	\$ 5981.18	•	\$ 21001.16
Net Income/(Loss) for the period	\$ (1405.51)		\$ (7597.30)

Balance Sheet as at M	<u>AICH 31, 1981</u>	
FIXED ASSETS		
Greyhounds, at cost	\$ 14000.00	
Less depreciation to date	1990.87	\$ 12009.1:
Kennel Equipment, at cost	\$ 5226.47	
Less depreciation to date	853.13	4373.34
		\$ 15382.4
CURRENT ASSETS		
Seed Inventory	\$ 728.92	
Deposits and Prepayments	2096.03	
Purse Money Receivable	439.64	
Cash at Bank and in Hand	2027-56	
	\$ 5292.15	
CURRENT LIABILITIES		
Loan Account-STALRA Family Partnership	\$ 10000.00	2*
Commissions Payable	73.91	
Sundry Creditors	4488.29	
	\$ 14522.20	
NET CURRENT ASSETS		(9230.0
TOTAL ASSETS		\$ 7152.4
		•
CAPITAL ACCOUNTS		
Stanley Margolis		
Balance, brought forward 3/1/81	\$ 4358.95	
Capital introduced/(withdrawn)	-0-	
Share of profit/(loss) for period	(702.75)	
Balance carried forward		\$ 3662.2
Wayne Strong		
Balance, brought forward 3/1/81	\$ 3061.00	
Capital introduced/(withdrawn)	1131.90	
Share of profit/(loss) for period	(702.76)	3490.1
Balance carried forward		
		5 7152.4

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### Balance Sheet as at April 30, 1981

#### FIXED ASSETS

Greyhounds, at cost	\$ 12000.00	
Less depreciation to date	1954.26	\$ 10045.74
Rennel Equipment, at cost	\$ 5226.47	
Less depreciation to date	998.31	4228.16
		s 14273.90

#### CURRENT ASSETS

Feed Inventory	Ş	624.00
Deposits and Prepayments		2040.87
Purse Money Receivable		163.09
Cash at Bank and in Hand		687.84
	ş	3515.80

### CURRENT LIABILITIES

Loan Account-STALRA Family Partnership	\$ 10000.00
Commissions Payable	90.75
Sundry Creditors	4763.33
	\$ 14854.08
NET CURRENT ASSETS	

TOTAL ASSETS

CAPITAL ACCOUNTS

Stanley Marcolis Balance, brought forward 4/1/31	5 3662.28		
Capital introduced/(withdrawn)	162.58		
-	(2326.49)		
Share of profit/(loss) for period	(2328.49)		
Balance carried forward		5	1498.37
Wayne Strong			
Balance, brought forward 4/1/31	\$ 3490.14		
Capital introduced/(withdrawn)	273.59		-
Share of profit/(loss) for period	(2326.48)		
Balance carried forward			1437.25
	89) 1	5	2935.62

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\$(11338.28)

\$ 2935.62

# Income & Expenditure Account

# For April 1981 & period January 1, 1981 to April 30, 1981

	PERIOD	¥	TEAR TO DATE
Purse Money	\$ 2028.76	Ş	15432.62
Other Income (Loss on Dog destroyed)	(1684.21)		(1684.21)
TOTAL INCOME	\$ 344.55	ş	3 13748.41
Kennel Setup Costs	s -0-	s	5 758.03
Commissions Payable	587.18		4913.82
Wages and Employee Benefits	1529.28		8034.18
Transportation Costs	80.00		450.00
Feed	740.59		3060.78
Vet Fees, Medication & Ghnd Supplies	83.25		885.73
Rent and Telephone	672.72		2282.07
Motor Expenses	464.95		1810.04
Printing, Postage & Programs	100.00		326.10
Insurance	95.49		449.70
Bank Ches and Loan Interest	151.81		657.95
License Fees	10.00		250.00
Sundry Expenses	58.89		264.95
Depreciation Greyhounds	279.18		1274.61
Kennel Equipment	145.18	•	580.72
TOTAL EXPENSES	\$ 4997.52		\$ 25998.68
Net Income/(Loss) for period	\$ (4652.97)		\$ (12250.27)

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Income & Expenditu	ITE ACCOUNT	
For the period October 10	, 1980 to Decemb	<u>ber 31,</u> 1980
-		
	PERIOD	YEAR TO DATE
Purse Money		· •••;
Other Income		
TOTAL INCOME	-	
		2
Kennel Setup Costs	\$ 978.85	\$ 978.85
Commissions Payable		
Wages and Employee Benefits	1591.95	1591.95
Transportation Costs	1866.60	1866.60
Feed	880.84	880.84
Vet Fees, Medication & Greyhnd Supplies	164.50	164.50
Rent and Telephone	437.75	437.75
Motor Expenses	537.73	537.73
Printing, Postage & Programs	575.27	575.27
Insurance		
Bank Chgs and Loan Interest	53.59	. 53.59
License Fees	50.00	50.00
Sundry Expenses	540.20	540.20
Depreciation Greyhounds	995.44	995.44
Kennel Equipment	417.59	417.59
TOTAL EXPENSES	s 9090.31	, <u> </u>
Net Income/(Loss) for the period	(\$9090.31)	(\$9090.31)

Income & Expenditure Account

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### Balance Sheet as at December 31, 1980

#### FIXED ASSETS

Greyhounds, at cost	5 14,000.00	
Less depreciation to date	995.44	\$ 13,004.56
Kennel Equipment, at cost	\$ 5,011.00	
Less depreciation to date	417.59	4,593.41
•		\$ 17,597.97
CURRENT ASSETS		
Feed Inventory	\$ 529.20	
Deposits and Prepayments	834.78	
Purse Money Receivable		
Cash at Bank and in Mand	(1,555.36)	
*	<u></u>	•
	\$ (191.38)	

#### CURRENT LIABILITIES

Loan Account-STALRA Family Partnership	\$ (4,000.00)		(1 <b>1</b> -3)
Commissions Payable			
Sundry Creditors	(1,276.90)		
*	\$ (5,276.90)		
NET CURRENT ASSETS			(5,468.28)
TOTAL ASSETS		\$	12,129.69
			3
PITAL ACCOUNTS			
Stanley Margolis			
Balance, brought forward	ş <del></del>		
Capital introduced/(withdrawn)	12,000.00		
Share of profit/(loss) for the period	(4,545.15)	Ş	7,454,85
Balance carried forward			,
Wayne Strong			
Balance, brought forward	\$		
Capital introduced/(withdrawn)	9,220.00		
Share of profit/(loss) for the period	(4,545.16)	49	4,674.84

Balance carried forward

12,129.69

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EXHIBIT L

ROBERT E. ROBINSON Assemblyman Chairman-Commerce Committee

417 LACY LANE Las Vegas, Nevada - 89107 Phone: (702) 878-3202



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COMMITTEES CHAIRMAN COMMERCE MEMBER ELECTIONS WAYS AND MEANS

# Nevada Legislature

SIXTY-FIRST SESSION

May 14, 1981

Joseph O. Sevigny Superintendent of Banks Banking Division 406 E. Second Street Carson City, NV 89710

Dear Joe,

Enclosed is a copy of A.B. 585, which was heard before the Commerce Committee on Wednesday, May 13, 1981.

The reasoning behind this bill was that some of Mrs. Ham's constituents complained that their banks had made offset withdrawals from their checking accounts to cover overdue installment payments. The withdrawals threw their accounts into overdraft, and they were distressed because some of their other checks were then returned and additional charges were made against their accounts for the processing of the overdrawn checks.

The first knowledge that these people had of their accounts being overdrawn was through calls that they received from people regarding payment on bad checks. Mrs. Ham claimed that they had not received a notice that an offset deduction was going to be made.

Lt. Governor Leavitt testified that the same thing had happened > to him.

There will be a great many serious problems with A.B. 585, and testimony by bankers convinced Mrs. Ham to withdraw her bill with the condition that all of the banks and savings and loan companies and others handling checking accounts would give notice when an offset, such as described above, was made. The notice would have to give the amount of the charge and the reason for the charge.

Two of the major banks testified that they were already doing this, (giving notice), and we feel that it would be a good idea to make such notice standard practice for all financial institutions.

If the banks and financial institutions do not voluntarily adopt such procedures, you should require it by regulation. Hence this letter. The Legislature intends that you solve this problem through

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Joseph O. Sevigny May 14, 1981 Page 2

your regulatory authority.

If you should have any questions concerning this matter, please let me know.

Very sincerely yours,

Robert E. Robinson Assemblyman

RER:ee

Enclosure

#### Good Afternoon Gentlemen:

My name is Arthur Senini, President of the Wine & Spirit Wholesalers of Nevada.

Our industry supports A.B. #598 and does hope that you will act favorabley in a "Do Pass" vote.

This proposed legislation was presented to Mr. Roy Nickson, Exec. Secretary of the Nevada Tax Commission, discussed in detail and was approved in concept at that meeting. In view of the fiscal note attached to this bill wherein there is no effect to local Government and no effect on the State or on Industrial Insurance, the Nevada Tax Commission could find no objection to this bill. If anything, it could be beneficial to the Tax Commission. A.B. #598 is an industry sponsored bill wherein we are imposing additional requirements on ourselves in pursuit of a more orderly conduct of business. This bill assures complete service to the entire beverage industry.

Government has strong and legitimate interests in the public benefits offered by this proposed legislation. Enforcement of liquor tax collection and liquor control laws can be strengthened by this proposal wherein all beverage alcohol must pass through three controllable levels prior to sale to the consumer.

A.B. #598 will help protect public revenue. The tax revenues generated by beverage alcohol sales is aided significantly by the "proper audit trail" resulting from this proposal within the frame work of our three-tier system of distribution.

After repeal of Prohibition, many of the license states and control states enacted laws similiar to that which we propose. Their basic purpose is to define a legal and efficient channel of distribution of beverage alcohol for purposes of efficient and effective taxation and protection of the public health and safety through state liquor control administration.

1152

Once again. we ask your support to A.B. #598 and do hope that you will act favorabley in a "do pass" vote.

Thank you.



EXHIBIT N

#### PROUDLY SERVING THE GREAT STATE OF NEVADA

AB 554 does not address the real problem. Tenants, in some cases, are not receiving their deposit refund within the required 21 days. The Apartment Association in both the North and South admit this problem exists and is heavily concentrated in out of state owned apartment complexes. We propose amendments to AB 554 as follows:

- 1. Delete Section 1 through Section 8 and amend the summary and the description of the act.
- 2. Include as Section 1, an amendment to NRS 118A.240, subparagraph seven inclusive.

Should the landlord willfully neglect to return the remaining portion of the Security Deposit as described in Subsection 4 or 5 above to the tenant within 21 days after termination of tenancy, the landlord shall be required to return the entire deposit forthwith, without any deduction whatsoever for defaults in payment of rent, repairs, or costs of cleaning the premises. If a judgment in favor of the tenant is granted and the defendant fails to comply within a reasonable time, the defendant shall be liable for a misdemeanor charge as well as the judgment.

- 3. Include as Section 2 an amendment to NRS 118A.260, subparagraph 4 inclusive.
  - If the principal or corporate owner does not reside within the state of Nevada:a. He shall designate a representative within the state to receive service in connection with any legal action brought by tenants or others.
  - b. In the absence of such designation then the on-site manager, or other person managing or operating the property, will automatically become the designated representative to accept legal service.
  - c. The obligations of the landlord devolve upon the persons authorized to enter into a rental agreement on his behalf.

These amendments address the real problem, lack of compliance with the three week deposit refund provision and lack of availability of local Small Claims courts to tenants to voice their grievances against out of state landlords. There does not appear to be a problem with landlords retaining the Security Deposit and having it available to return to a tenant. We therefore urge your adoption of our amendments to AB 554 since this addresses the primary problem within our state.



NORTHERN OFFICE 570 CALIFORNIA AVENUE RENO, NV 89509 (702) 322-6622



SOUTHERN OFFICE 1111 LAS VEGAS ELVD., SO. - 210-C LAS VEGAS, NV 89109 (702) 382-3256

### DEXHIBIT O

1981 REGULAR SESSION (61st)

SUBLY ACTION	SENATE ACTION	Assembly AMENDMENT BLAN
Adopted Lost Date: nitial: Concurred in Not concurred in Date: nitial:	Adopted	AMENDMENTS to Assembly Joint Bill No. 580Resolution No. BDR 58-2044 Proposed by Committee on Commerce
5. Cati		· · · ·
Amendment N	900 <sup>-</sup>	

Amend section 1, page 1, line 11, by deleting "single rate" and inserting:

"rate for interruptible service".

Amend section 1, page 1, line 14, by deleting "<u>customers.</u>" and inserting:

"customers in Nevada."

#### EXHIBIT P

#### 1981 REGULAR SESSION (61st)

ASSEMBLY ACTION	SENATE ACTION	Assembly AMENDMENT BLAN
Adopted Lost Date: Initial: Concurred in Not concurred in Date: Initial: Initial:	Adopted Lost Date: Initial: Concurred in Not concurred in Date: Initial:	AMENDMENTS to Assembly Joint Bill No. 288 Resolution No. BDR. 54-1131 Proposed by. Committee on Commerce

Amendment Nº

· 595

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·		S.	

Amend the bill as a whole by deleting sections 1 through 6 and by inserting a new section designated section 1, to read as follows:

"Section 1. Chapter 624 of NRS is hereby amended by adding thereto a new section which shall read as follows:

1. Each contractor who completes the performance of a contract for which he employs a subcontractor shall, on the day on which the performance is completed, mail to each subcontractor notice that the performance was completed. The notice must be sent by registered or certified United States mail, return receipt requested.

2. The contractor shall retain the returned receipt in his records for at least 2 years after the performance is completed.

3. Willful or repeated failure to comply with the requirements of this section is cause for disciplinary action."

Amend the title of the bill to read as follows:

"AN ACT relating to contractors; requiring notice to subcontractors of completion of contracts; and providing other matters properly relating thereto."