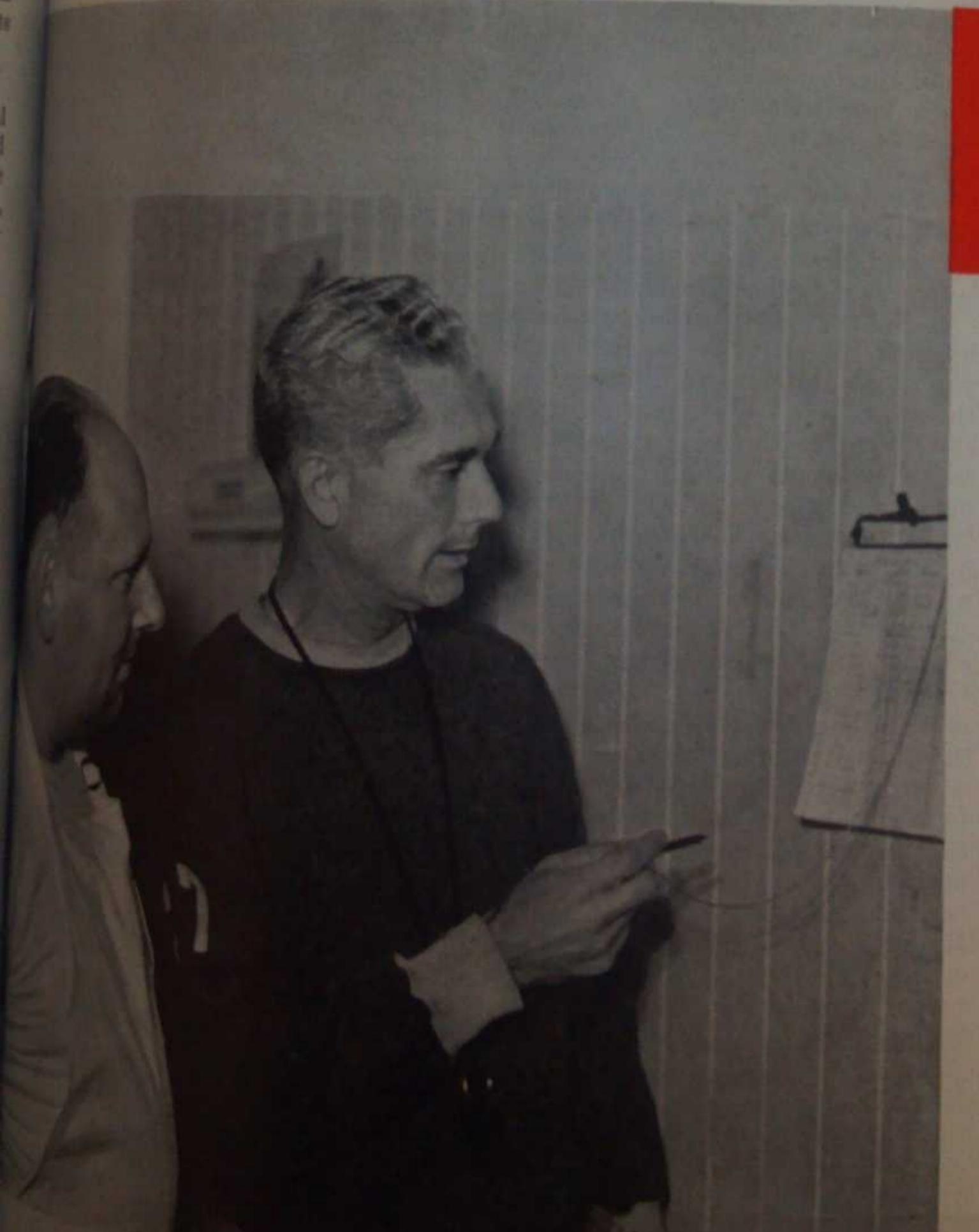
# RAINERS JOURNAL SECTION

NATIONAL AIHLETIC TRAINERS ASSOCIATION

SEPTEMBER, 1941

No. 1



Official Publication
Of the National Athletic
Trainers Association

The Value and Methods of
Home Treatment for
Athletic Injuries
Frank Wiechec

Preparatory Drills for Football
Players
Albert Baumgarten

Ankle Injuries
Percy Quinlan

Trainer Henry Schmidt and Coach L. T. "Buck" Shaw University of Santa Clara

# The High School Trainers Plan

A T a time when much emphasis is being put upon the physical fit-ness of the youth of our country, the high school trainer's plan is being proposed by the National Athletic Trainers Association through its publication The Trainers Journal.

Three things are necessary for the successful working of the plan: (1) An organization to head up the plan, to outline it and to send out material; (2) The co-operation of coaches to start it in their schools and (3) Four boys in every high school who have a desire to take the training course.

The first of these is assured as the officers and directors of the National Athletic Trainers Association have pledged their support.

#### The Coaches Responsibility

1. The coach will select four boys, one from each of the four high school classes. It may be suggested here that a conference with the instructor of the hygiene classes will help in the selection of boys who have shown a special interest in this study.

2. The senior class trainer in many cases will be the team manager.

3. Coaches should provide their trainers with a copy of the Trainers Journal and instruct them to keep the issues throughout their high school years, four, three, two and one as the case may be. The lessons will be continuous and progressive throughout the four-year course. Naturally this year, all student trainers will get the same material, but as the years pass, the lessons will progress.

4. The student trainers are to assist the coach and the medical supervisor or school physician.

5. The coach should explain to the boys whom he selects that they are to enter the course as upon any study course, to learn and to apply their knowledge in a practical way. By the time the freshmen trainers have become senior trainers, a coach will have helpful trainer assistants and will have been relieved of many of his arduous training duties.

## The Student Trainers Program

1. The training lessons will be taken from the pages of the Trainers Journal and will be studied under the direction of the team medical supervisor or in consultation with him.

2. The course will include diet; exercises; protective gear for ankles, knees, shoulders, hips, wrists, etc.; all types of bandaging; body structure; treatment of injuries; hydro-therapy, electro-therapy, etc. These subjects will not necessarily be in the order named but in an order designed to sustain the interest of student trainers.

3. Many coaches now have managers who assist in the weighing in and out of the athletes. This duty may easily be assigned to student trainers. This is a simple task but an important one. The weight chart is as fundamental as the sterilizing of a surgeon's instruments. Weight charts tell the coaches the answers to the questions, is the boy getting too much exercise, too little, enough sleep, enough food or the right kind.

4. The student trainers' field is comprehensive. The extent of the responsibility put upon the trainers will depend upon the coach and his selection of trainers. (a) They should have a knowledge of the social restrictions that their coaches put upon their athletes outside the training hours, such as late hours, drinking, smoking and dates. This should not be interpreted that the student trainer is to act as a spy. (b) They should have a knowledge of prophylactic care and responsibility for it, dependent again upon the coach. The study of each athlete will bring out individual factors that will go a long way toward preventing injuries. In this connection student trainers should: (a) Examine the records of the athletes made by the examining physician at the beginning of the training period; (b) Have a knowledge of taping, bandaging, etc.; (c) Inspect the equipment and the proper fitting of it; (d) Keep continuous records as to the weight and general physical condition of the athletes; (e) Know about emergency care when a phy-

sician is not available; (f) Know a skin abrasions, blisters, boils, etc. IN port them at once; (g) Recognize ment and muscle injuries; (h) Rem the seriousness of injuries that require immediate services of a physician; Have a knowledge of diet. Information on diet will be given out in the This Journal. Student trainers should in iarize themselves with this information

5. Student trainers may be most be ful to the coach in assisting with the proper exercises for each sport. Athen are hardened by systematic extra which are an exact science and vary the sport. It may be noted that the paratory drills for football players by bert Baumgarten in this issue are trated by a high-school boy.

6. Student trainers may assist in how ing protective equipment. A great bell of money may be invested in modern to to-date equipment and training room in tures. Where the funds are limited as dent trainers may build protective a preventative equipment out of odds al ends found around the average long room. To this end the Trainers Journal will endeavor to contribute by describe and picturing homemade devices now in

7. Most important of all responsible ties that student trainers should assert is that of an absolutely clean training room. There is no excuse for an insula tary training room which is dedicated the prevention of ills.

8. Student trainers should familians themselves with the equipment and silve plies needed in the training room. listing of supplies for the model training

room in this issue for three budgets, III be studied with interest.

The National Athletic Trainers Asses ation has one object in sponsoring program—that of decreasing into among the athletes, and is appealing the boys in the high schools to join in program. Enroll at once with your co and ask that he send your name to secretary of the National Athletic Trans ers Association, Iowa City, Iowa.

# TRAINERS IOURINAL ublication National Athletic Trainers Association

September, 1941

No. 1

Officers National Athletic Trainers Association For 1941-1942

President, Lloyd Stein, University of Minnesota

1st Vice-President, John Kelly, New York University
1st Vice-President, Henry Schmidt, Santa Clara University
1st Vice-President, Wilbur Bohm, Washington State College
1st Vice-President, Washin

# Irainers, Here We Are

HERE is the first issue of the Trainers Journal, Haccording to the announcement made in June. his a modest beginning but with the enthusiasm adeo-operation already shown by many trainers in Tarious parts of the country the Trainers Journal

Five years ago when the National Athletic Trainas Association was founded in Des Moines at the fine of the Drake Relays, it agreed upon a broader purpose than to organize merely for goodfellowship and an exchange of ideas among its members. It mmediately set up an educational program and becan issuing bulletins which contained articles by outstanding trainers and doctors interested especially in training of athletes.

The distribution of our bulletins was necessarily limited. Our educational program on the fundamentals of training called for a monthly magazine, one that would reach every high school and college that had an athletic program. The many requests that came to us for our bulletins was evidence that

here was a demand for a wider distribution.

Many of our athletic trainers have been able and alling to assist coaches and high school athletes in their vicinities with training problems. At coachschools and clinics where some time has been alofted to training subjects, much interest has been

shown by coaches in attendance.

We are cognizant of the fact that thousands of our school coaches have to do all or much of the actaping of their athletes and care for the minor The school physician, who in many cases the town physician, devoting in addition to his practice some time to high school athletes, be not have time to attend to the taping and minor We are therefore suggesting the High Plan, explained elsewhere in the Trainers High school coaches, who in the past have the training responsibilities of their boys have streat possibilities in this plan, and have shown desire in the clinics this summer, where the plan explained in detail, to follow it.

# UNDER THE SHOWERS



LLOYD STEIN, President of the N. A. T. A., has worked with Bernie Bierman, of Minnesota, the past nine years. Lloyd was at one time one of Bierman's great guards. He is the sort of trainer that goes back to school

every summer, always on the watch for better ways to do this or that-truly a very fine trainer.

William "Bill" Dayton, head trainer at the University of Miami, represented the N. A. T. A. at the Florida coaching school held at Daytona Beach during August. He presented the high school trainers plan and reported a very favorable response by the coaches to this much needed program.



TOHN KELLY, head trainer at U New York University and first Vice-President of the National Athletic Trainers Association, has offered his services and training room facilities to all athletes in the greater New York area. This co-

incides with the educational and co-operation theme song of the N. A. T. A. We encourage every trainer to give his time and information to all high school athletes.

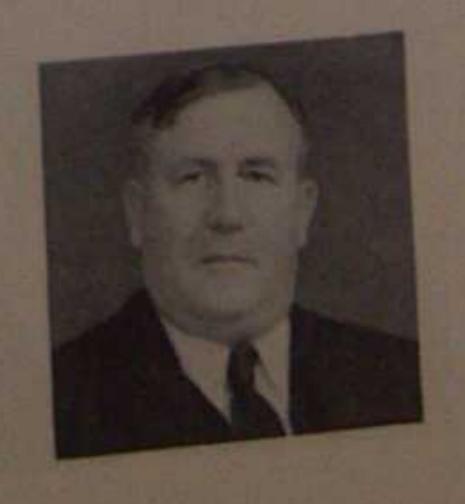
Frank Hugo, the head trainer at Syracuse University, has served that school for the past seventeen years.



HENRY SCHMIDT has trained 11 the Santa Clara teams for the past thirteen years. He and Jack Heppinstall, who is the head man at Michigan State College, have many an interesting talk as their two teams meet each year on the

football field, first on the West Coast and then in the Mid-West. Schmidt is now the second vice president of the N. A. T. A.

Frank Kavanagh, trainer of the 1936 Olympic teams, has been at Cornell University for twenty years. He was on the bench during the All-Star game this year with his coach, Carl Snavely, who was the All-Star coach.



WILBUR BOHM of Washing-ton State College has just completed a very fine book for trainers and physical education men, "Research and Writings on Training, Conditioning, Treatment of Athletic Injuries and Corrective (Continued on page 41)

# The Value and Methods of Home Treatment for Athletic Injuries

By Frank J. Wiechec

Athletic Trainer, Temple University

T has often been noted that compara-tively simple injuries such as ankle A sprains, shoulder separations, muscle contusions and knee injuries have kept boys from participating in sports for weeks and even months. It would be possible to cut down this long convalescence or absence from competition, if the trainer would instruct a boy in home treatment and provide the necessary apparatus to carry on treatment. In nearly all cases of mjury, although facilities are available and the boy receives treatment either from the trainer or in a hospital physical therapy department, he can, as a rule, have only one treatment a day. The boy's daily class work and the large number of people to whom the trainer must give attention during the day prevent more frequent treatments. I think this is one of the reasons why it takes so long for injuries to heal.

If an injury were treated three or four times a day, the patient would recover more rapidly. Since it is not possible for a trainer or a physical therapy department head to devote that much time to one boy, it is, therefore, best to instruct the boy himself in treatment and have him carry it on at home. This, plus his regular hospital treatment, should materially cut down his time of convalescence.

In many hospitals, patients who are referred to the physical therapy department for treatment invariably receive instructions in methods of treatment that may be carried on at home. Frequently instruction is given in the application of heat, massage and exercise. Since these three phases of physical therapy are often used by trainers in treating athletic injuries, let us discuss methods of treatment and types of apparatus that injured athletes may use. The simple methods of heating that the trainer can teach the athlete to use at home are the following: (1) heat lamp, (2) paraffin bath, (3) hot compresses, and (4) contrast bath.

#### Heat Lamp

As part of my equipment at Temple University I have five small clamp lamps which I loan out to various boys for treatment at home. The lamps are small, light and inexpensive, and, if lost, can easily be replaced.

The important part of a lamp is not the stand or the reflector but the heat element

itself. This may be a resistant metal rod or a bulb. I prefer the use of bulbs for lamps rather than metal resistant units because medical experiments have demonstrated that the heat penetration from bulbs is greater than from the units.

The heat lamp is easily set up, not difficult to apply, and there is little danger of receiving burns from it. Almost any part of the body can be treated by the lamp. For best results it should be placed about fifteen to eighteen inches away from the injured part, for a period of not less than thirty minutes. Both the lamp and the part being treated should be covered with a sheet so as to prevent the rapid escape of heat.

#### Paraffin Bath

Melted paraffin is another heating agent that may be utilized by the injured athlete at home. It is a good source of heat and the close contact of the wax will keep the part warm for some time. I have found that better results are obtained with

BEFORE becoming head trainer at Temple University, Frank Wiechec served as supervisor of technical work and technicians in the department of Physical Therapy at the Mayo Clinic from 1936-38.



Frank J. Wiechec

paraffin than with the heat hamping injuries of the extremities and toes, fingers, wrists, ankles and the lamp will give heat only to the the extremity while immersion of the jured part in wax will provide the heat around the entire part

For treatment, about three pounds of paraffin, or jelly was all commonly called, should be used him heated in a double boiler until it liquefied. It is then allowed to exist a thin, white coating appears on the face. It is then ready for use land ing fingers or toes, dip them in and the wax until several coatings back applied, then let them remain in the wax for twenty minutes in that the patient not move his free a they are covered by the wax. The part can then be taken out and the peeled off like a glove. To treat elbows, ankles and knees obtain a me brush or a wooden handle covered to gauze, dip this in the wax and paint and over the entire area to be treated and the part is completely covered be paint ten to twelve coatings on top it Cover with a towel or blanket und be on for twenty minutes. Peel of the and the part is ready for further to ment. If the part to be treated by great deal of hair, it will be necessary in to coat the area with some oily subsur such as mineral or olive oil before ing the wax. This will prevent was in sticking to the hair.

#### Hot Fomentations

Heavy turkish towels, flannel or many dinary woolen blanket may be used by and dip in hot water, 115 to 120 deps of heat. Wring out and place on the post of the body to be treated. Cover we piece of flannel or woolen cloth to provide the escape of heat. Renew the formations frequently for a period of thing forty-five minutes. This type of heat not so satisfactory as that which is post off by a heat lamp nor as that from off by a heat lamp nor as that from bath. Not only does the rapid cooks the towels necessitate frequent represent, but the towels are also clums and difficult to apply.

#### Contrast Baths

This is still another type of treatment

THE ATHLETIC JOURN

To used for sprains, strains, and It tends to increase the periwilntion and relax the museles. de or feet. Use two deep buckwo-thirds filled with water as hot borne safely and comfortably, der two-thirds filled with cold tap Pisce the part to be treated in the off three minutes, then in the cold de minute. Alternate from hot at aster for a period of twenty-four Begin and end in the hot water. te shoulders, knees and other parts of Mody. Secure a bath spray or a rubclose and attach it to a hot and cold or fancet. Use the hot spray for five then the cold spray one minute, the hot spray three minutes and the topny one minute. Continue changfor twenty-six to thirty minutes. Alend with the hot spray.

#### Massage

timent. Since it is not possible for an bidual to massage himself, I have at that, if instructions on massage are the boy, he in turn is able, with the aid the instruction sheet, to have some one home give him massage. The follow-instructions may be given a player for me treatment.

Rules for Massage. 1. Be sure that the set to be massaged is relaxed and combinable and that the clothing is not tight a binding. 2. Have someone else give to massage as it is almost impossible to be massage one's self. 3. Massage well above as below the affected area. 4. Heaviest masure should be on the upward stroke ward the heart, lighter pressure on the sanward movement. 5. Massage should be deep, firm, slow and rhythmical. Keep hand in contact with the skin at all labes. 6. Massage should rarely be pain-

Direction of Massage. The arm: Massage from elbow to shoulder, wrist to ellow, finger tips to wrist. The leg: Massage from knee to hip, ankle to knee, toes askle. The back: (1) Massage from the muscles of the back on both sides of spine from buttocks to neck; (2) from the back to underarm; (3) along the muscle, and (4) over the entire back.

Movement of Massage. 1. Stroking:

This is a long, smooth movement. Keeping
that hand in contact with the skin, begin
that and gradually increase the presthat a kneading: This consists of graspset of a muscle or muscle group. Take
the entire hand and arm in the movethat in small circles, making the skin
the around over the underlying struc(Continued on page 40)

# The Famous Ille Portable Underwater Therapy Jank With Hydro-Massage ...

TAKES PRECEDENCE OVER ALL OTHER EQUIPMENT IN TRAINING ROOM FOR TREATMENT OF ATHLETIC INJURIES OF EXTREMITIES.



Combination Arm, Leg and Hip Tank. U. S. Pat. No. 369904

# Will Accomplish the Following:

# REDUCE TIME OF DISABILITY OF ATHLETIC INJURIES 50%

This is a broad statement but it is made without fear of contradiction. It is the opinion of many physicians, coaches, and trainers who have presented clinical evidence of spectacular results obtained by this method in injuries involving the extremities.

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To quote a prominent medical authority on hydrotherapy, "As a preliminary to other therapy, the Whirlpool Bath is surpassed by no other measure. It not only makes manual massage, stretching, and manipulation possible, but reduces the time required about 70%, a factor to be considered where many are to be treated."

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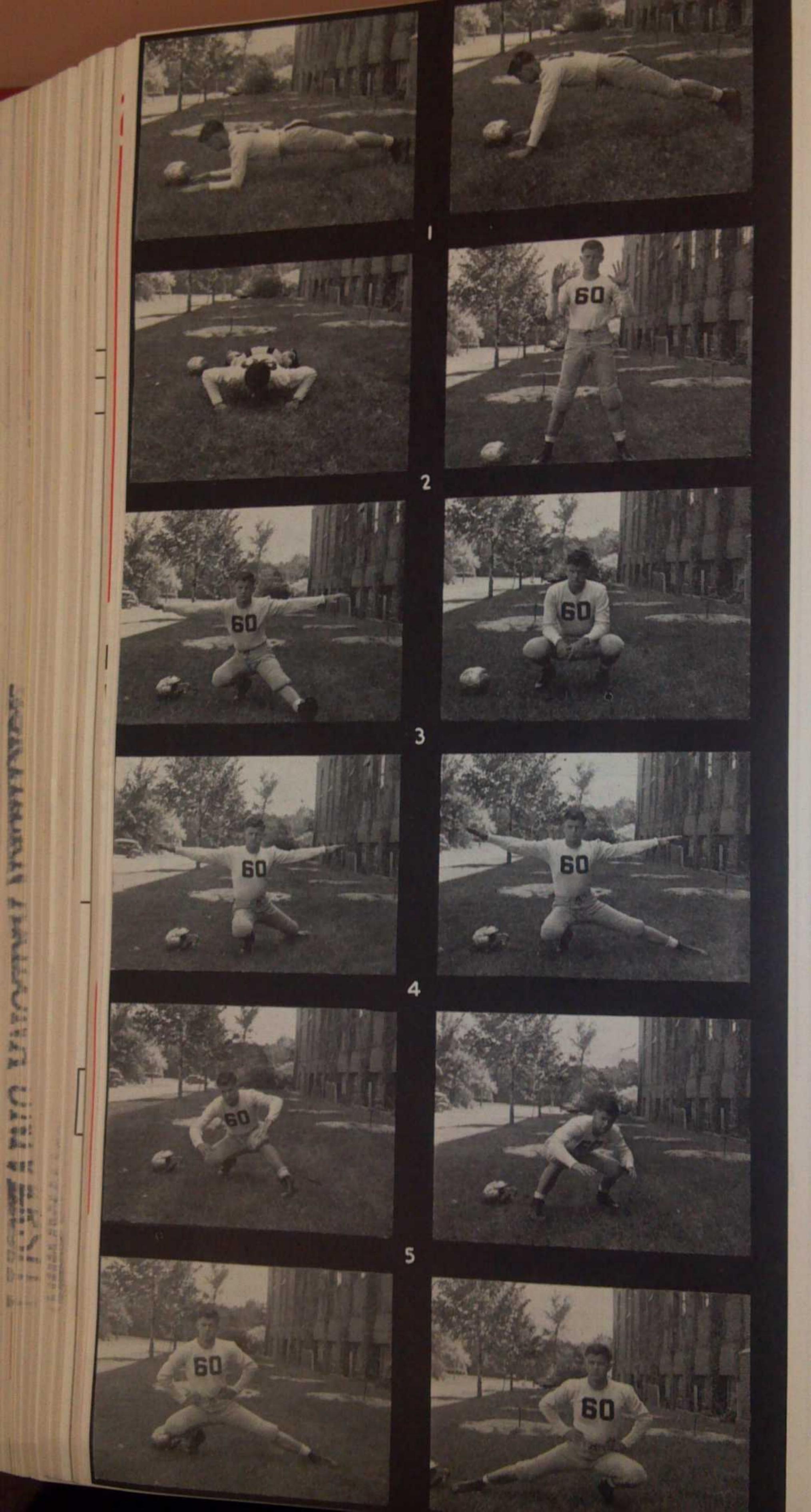
ROLL AWAY YOUR FOOT TROUBLES

## LANG FOOT AND ARCH NORMALIZER

For use after a foot or ankle injury, when proper time arrives for exercise. Now adopted for training room equipment by Universities of: Alabama, Georgia, Mississippi, Detroit, Kansas, Texas, Pennsylvania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Georgia Tech, vania, Toledo, Mercer, Harvard, Ohio State, Oklahoma, Toledo, Mercer, Toledo, Toledo, Toledo, Toledo, Toledo, Toledo, Toledo, Toledo, Toledo, Toled

TRAINER'S JOURNAL

Iowa City, Iowa



# Preparatory Driller Football Player

By Albert Baumganhar Gymnasium Coach, State Unines

ognized the value of exercises for conditions a backfield man needs different exercises are suggested in additional exercises are suggested in additional your program.

When an athlete changes from to another, it is a fact that he muscles the muscles not extensively the previous sport and gradually and the muscles to the requirements to sport he is to enter. This set of he tions will be followed by illustrately cises for other sports during the tions in this issue is shown at the tions in the tions in this issue is shown at the tions in the t

#### For the Ends

1. Position: The body is facing as ward and supported by the hands about a feet, thighs extended, hands about a half arms length ahead of the shad and shoulder-width apart; the is should be held straight (Illustration Action: Flex the arms so that the first touch the ground, keeping the form parallel with the body. Extend the is to starting position and repeat.

2. Position: Stand with the legs and ly apart, forearms forward with impointing upward and slightly inward lustration 2). Action: Fall forward land on the hands; flex the arms in to catch the fall.

ward and supported by the fingeries feet, thighs extended, the back is straight, hands directly below the six ders and shoulder-width apart (Note trated). Action: Flex the arms unit chest almost touches the ground, the tend the arms to starting position and peat.

4. Position: Flex the knees fully trations 3 and 4). Action: Alternated left and right, place the leg forwards ward and backward.

#### For the Tackles

by two. Both men face each other, hands grasping each other, the feet of man between the feet of the other illustrated). Action: Against the lance of the man that remains standards

THE ATHLETIC JOUR

## reparatory Drills for Football Players By Albert Baumganner Anasium Coach, State University W

OACHES have for some time ognized the value of early by exercises for conditioning s. Close observation will shown field man needs different comments hose required by a center; at e requires different exercises given an end. These special s are suggested in addition to the conditioning exercises her

n an athlete changes from one pen her, it is a fact that he must be muscles not extensively used a vious sport and gradually accuson ill be followed by illustrated etc. toging backward. r other sports during the par ial position in each of the illustrathis issue is shown at the right on at left.—Editor's note.

#### For the Ends

Flex the arms so that the elbors ne ground, keeping the foreams with the body. Extend the ams ng position and repeat.

ition: Stand with the legs slight-, forearms forward with fingers upward and slightly inward 2). Action: Fall forward and the hands; flex the arms slightly the fall.

ghs extended, the back bell total hands directly below the should shoulder-width apart (Not illus Action: Flex the arms until the ost touches the ground, then esarms to starting position and re-

tion: Flex the knees fully (lllis and 4). Action: Alternately, ight, place the leg forward, sile backward.

#### For the Tackles

ion: Double front leaning mi Both men face each other, will sping each other, the feet of out een the feet of the other (Not ). Action: Against the resident he man that remains standing

THE ATHLETIC JOURNAL

mun lowers himself slowly to tion with the legs straight and the back-lying position. The man slowly gives in with the ding forward and so places himthe front leaning rest on the other Took From this position, either goe or both together flex and exthe arms. The top man pulls the on upward and both change post-

Son: Flex fully both knees (11-(55). Action: Walk forward and with alternate trunk bending

and night and left. Pastion: Stand with the legs apart, the fully flexed, the right leg extendslessys, the hands placed on the hips Senstion 6). Action: Alternately oge the knee flexion from left to right

Postion: Lie on the back with hands e is to enter. This set of illustrated by illustrat

#### For the Guard

a Position: Flex the knees fully and hee the hands on the ground outside the ines and near the toes (Illustration 7). letion: Extend the knees sharply, with sition: The body is facing down the ground. ad supported by the hands and 10. Position: Take a wide walk position to be extended bonds bonds and 10. Position: Take a wide walk position ighs extended, hands about one length ahead of the about one length about one length ahead of the about one length ahead of the about one length about on oulder width about the shouldes be body erect (Illustration 8). Action: oulder-width apart; the bek themstely flex and extend the arms so be held straight (Illustration I). the body lowers and rises with the arm movements.

Il. Position: Bend the trunk forward and place the hands in front of the toes; bees remain straight (Not illustrated). Letion: Take small steps forward and backward on hands and feet.

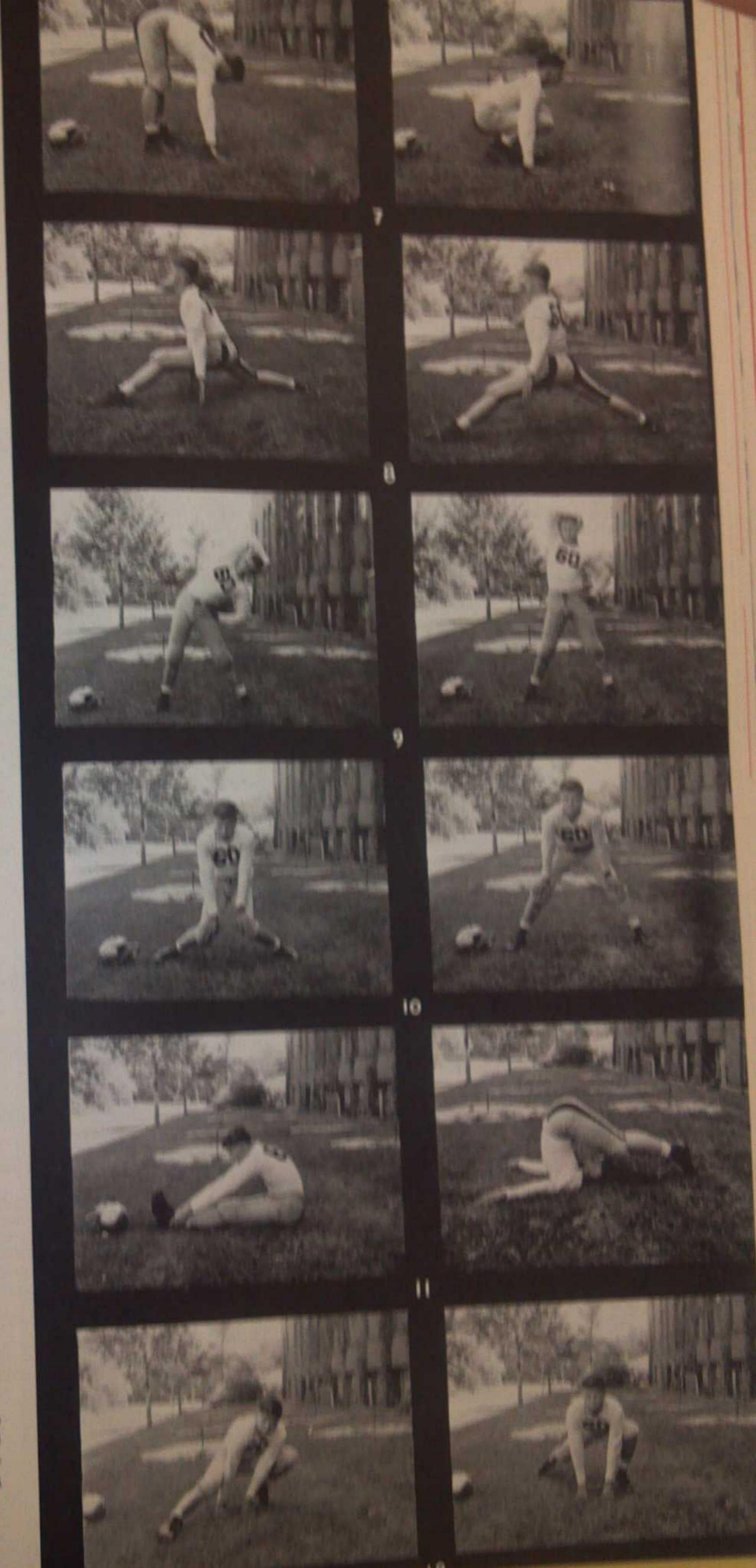
12 Position; Stand with the legs apart, nght hand placed on the head, the left and on the hips (Illustration 9). Action? Bend the trunk to the left, both hands asition: The body is facing down sting by a powerful pressure. Do the supported by the fingertips and some to the right with change of hand po-

#### For the Center

13 Position: Stand with the legs wide men and with the hands grasp the ankles som behind (Not illustrated). Action: Fix the arms and pull the trunk downand until the head is between the legs mel near the ground.

14. Position: Stand with the legs apart, the knees slightly flexed and the hands paced on the knees (Illustration 10). Achen: Hex the knees as much as possible shat they touch each other. Do this at est twenty times;

15. Position; Stand with the legs apart, bet knee flexed; the hands are placed on blips (Not illustrated). Action; Vigsously change the knee-flexion with a (Continued on page 40)



# Training Room Equipment for Three Types of Budgets

Trainer, University of Miami

Three types of budgets has been suggested by William "Pall" Days ton head trainer at the University of Mant with the hope that each reader

add a valuable piece by some small effort and ingenuity. If you are just setting up a training room you will find that one of these budgets not only will save you time and money, but will give you the benefit of the experiences of others in selecting

have been omitted. Ailments and treatments for them that are pecular unusual climates have been disregant The rule, or average, rather than the ception has been the basis for the

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will find these recommendations with that compare your own equipment with that	materials of this type. Quantities and names of manufacturers		The state of the s	EDITOR'	
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etc. Use to prevent and protect injuries	HE	*****			
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a Laurinea. Denyl chloride, an anesthetic for	the folion for prickly heat and other make	. Fetrolatum, to			18
TOP YOUR COME TOP YOU COME	and the state of t	mergy. Listerine	X	(L)	(
when the contraction of the party of the par	h a morning Dellin, Ammoniated	**********		(M)	
septies. Alcebol, iodine, metaphen, mercu	sed in dressing boils. Ammoniated mercury—to b. Zinc ointment—soothing and healing on burns, especially lime burns.	ber cent used	X	(N)	
AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Permangapate all wood	1233333333333	Λ		
the substant with them there made and the state week (	Thome made heat lamps.	tor disinfecting	X		
at lamps, large or small. Mild heat for a longer ()	Salt tableta or a very liberal	(H) Powders.			TOR

<sup>(</sup>A)

<sup>(11)</sup> short period.

very liberal amount of table (b) Towels with ico.
(c) Pail with towels.

Aromatic Spirits. (K) Ammonia Capsules.
(L) Salt Water.

<sup>(</sup>M) Boric Acid. (N) Whitfields Ointment, Zinc Ointment.

# Ankle Injuries

By Percy H. Quinlan

Trainer, University of North Carolina

ANY a valuable athlete is benched every season in every benched every season in every branch of sport because of an branch of course, should be This, of course, should be This, of course in order to

him back in action.

him back in action.

let us discuss the three types of eversion (2) eversion. Ninety per cent with injuries, (1) inversion. Ninety per cent and ankle sprains are of the inversion.

This type is caused when the foot the forced to turn in, and the ligative forced to turn in t

The second type, or the eversion sprain, the second type, or the foot has been forced to

The third type, or the forced extension, the third type, or weight being apart by pressure or weight being apart to the heel while the athlete is lying his stomach. Here you get an over-

Now what happens when you receive an Now what happens when you receive an sersion sprain? The tibia-fibula ligament has been strained by being overwhelm has been slightly pulled away from the tibia. The same thing might have appened to the external lateral ligament. If you have both, the injury is more serie. In severe cases of this type of sprain you will notice a great deal of swelling round the external malleolus or on the utside of the foot. This is the most compon type of sprain and is usually the only ne for which we strap.

The eversion type is rather uncommon, and is generally accompanied by a hair-ine fracture. This hair-line fracture, alled a Pott's fracture, shows up on the lover condyle of the fibula. If the sore-ine or pain is felt around the internal maleolus (or inside) you know that it is meversion sprain.

Simple sprains are not accompanied by much swelling, but when they are of severe nature there is a rapid influx of which collects in the ankle joint and mond it.

Important. If the ankle has been imped before the sprain occurred, have the athlete leave the adhesive on for forty-sent hours and as soon as possible have imput his foot in a pail of cold water to much cracked ice has been added. This hould be done for at least two hours after the impury occurred for the purpose of being the swelling. The more swelling the swelling. The more swelling the is, the more severe is the sprain or main. This same treatment should be intervals of every two hours at intervals of every two hours are intervals of every two hours are intervals. During the two-hour many has occurred. During the two-hour

#### High School Trainers Lesson No. 1

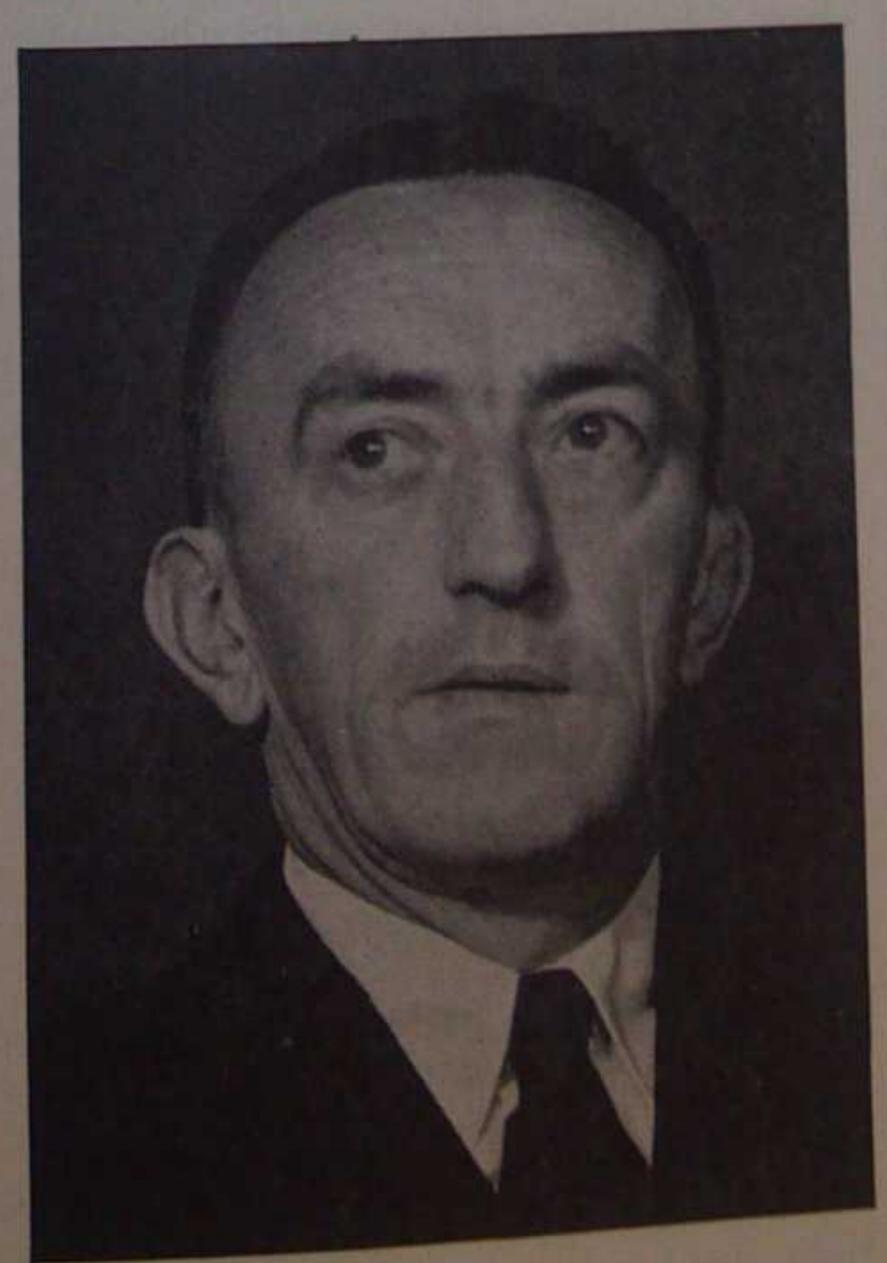
and keep the foot elevated.

Forty-eight hours after the sprain occurred the tape should be removed. You now have an opportunity to see how serious the sprain may be. If there is a great deal of swelling and discoloration, you can rest assured that the sprain is a serious one. All sprains of this type should have an X-ray picture, so that you may find out whether the athlete has a fracture. We owe this to the athlete. Many a grave mistake has been made by not taking a picture.

#### Treatment

Forty-eight hours after the injury has occurred you may start to apply the heat. I advocate three heat treatments a day. There are several ways of applying heat and all institutions do not have the more expensive methods of application. I am a strong advocate of the inductotherm and short wave diathermy treatments.

FOLLOWING his graduation from Springfield College, Mr. Quinlan coached and served as trainer at Penn State and Virginia Military Institute. For the past twelve years he has held the position of head trainer and varsity wrestling coach at the University of North Carolina.



Percy H. Quinlan.

This is deep penetrating heat and that is what it takes to break up the congestion and to stimulate a complete circulation. This type of heat will penetrate as deep as the periosteum (or the filament of the bone). Each of these treatments should last from twenty to thirty minutes.

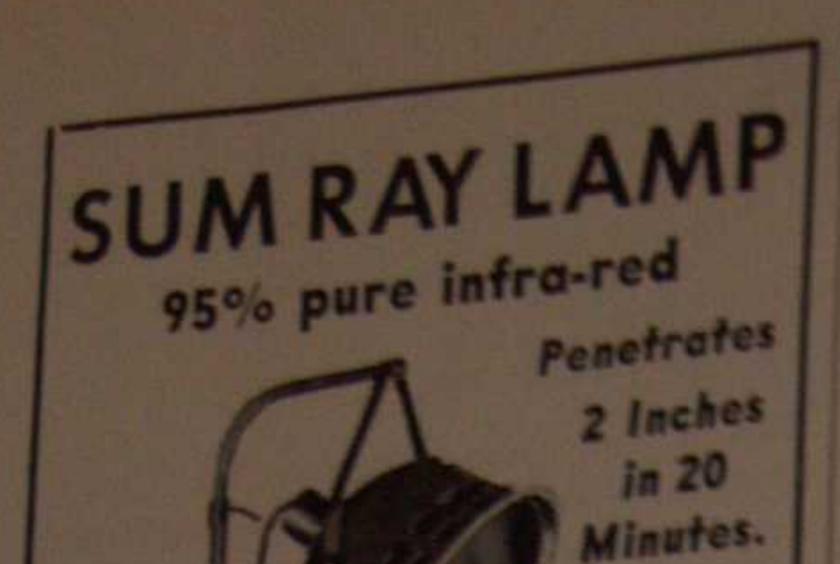
In a week's time the ankle should be massaged lightly while the foot is kept elevated. I use the vibratory type of massage. When the soreness has disappeared, the ankle should be worked and exercised but not too strenuously. An athlete who has received this type of sprain may be benched for three weeks and in many cases for a much longer duration. Be careful and do not put him in action until he has made a complete recovery. A fairly good substitute in good physical condition is far more efficient than a crippled star. I dislike seeing a star performer carry an ankle limp for a whole season when it is absolutely unnecessary.

In reference again to treatment, I will mention other types of heat to be applied. I believe the following types will not be as efficient as the above-mentioned, but I realize that we all cannot have cream in our coffee. Infra-red or the Thermolite are lamps which will aid immensely. In using all these devices, care must be taken not to burn the skin. Here is a suggestion for the boy who has no opportunity to get any of the treatments, mentioned above. Fill one pail with hot water and a second one with cold water to which ice has been added. Immerse the foot in one and then in the other at intervals of every twenty or thirty seconds. Keep this up for at least one-half hour three times a day.

When you decide that the athlete is ready for action, you should not let him practice or play without being strapped with adhesive. Adhesive properly applied is far superior to the linen wrap. I personally use mole-skin tape on this type of ankle.

#### Precaution

Every man on your squad should be issued a pair of linen ankle wraps. They should be at least eight feet long and two inches wide. Every member of the squad should be shown exactly how to apply these wraps. If applied incorrectly they will cause a sprain. Wrap them fairly tight and always work pulling out and up when wrapping. Make this wrap fast above the ankle with tape and fix securely. With a squad of fifty or sixty men it is impossible for a trainer to strap every man with adhesive. Therefore, ankle wraps should be furnished. If you have several weak ankles on your squad, I



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applied activities standarding with authority with en the true of a game I stant from SANTY TO PERMIT SHARES A PRESIDENT WITH THE The first ten to the miles of authority (Two inches waite) annually. I find it must Whatever method of strapping vant have

it should be such as to prevent the foot from turning in as 30 per cent of all ankle spiralns are of the inversion type. I enclose the whole ankie with adhesive when Latrip. This is different from the backet means with the break in front. If a break is left in front, as in most busket-weave strapping, the ankle does not have the proper support.

## Preparatory Drills for Football Players

(Continued from page \$7)

gradual enlargement of the stride position through sideward placing of a foot. .

16. Position: Stand with the legs apart, hands extended upward (Not illustrated). Action: Rotate and bend the trunk to the right and immediately return to the starting position and rotate and bend the trunk to the left. Knees should remain straight during the exercise.

#### For the Fullback

17. Position: Place the right leg backward (Not illustrated). Action: Swing the thigh forward till horizontal or at right angles to the trunk; then fling the leg forward with the toes pulled backward. Repeat this several times.

18. Position: Lie on the back, the right leg flexed and the sole of the right foot on the ground (Not illustrated). Action: Raise the left leg and grasp the left ankle with both hands. Pull the left leg to the chest. In this position extend the right leg.

19. Position: The body is facing downward and supported by the hands and feet, thighs extended (Not illustrated), Action: Move and circle the hip sidewards left and right. (Increase the movementcircumference and speed.)

20. Position: Lie on the back, legs raised backward with the toes touching the ground behind the head, thighs extended, arms raised overhead (Illustration 11). Action: (a) Swing the legs forward: (b) Raise and bend the trunk forward, grasp the feet; (c) Return to starting position and repeat.

21. Position: Stand with the legs apart. left knee flexed, trunk bent loosely to the left, right arm hanging over the head, left arm toward the ground (Not illustrated). Action: Push the hip to the left and change the knee flexion from left to right, swing the trunk to sideward flexion right, the left arm hangs over the head and the right arm towards the ground.

# For the Hallback

forward and buckward (Victoria)

hankly on the growth between Riturn (P) At time (F) 

arms on the side of the boil in trated) Action: Rake the think until you rest on the next of alternately left and right toward to until they touch the ground.

25. Position: Lie on the back had forward, toes touching the floor bell head, arms parallel to the body the histrated). Action: Straddle the land ward and close them again, Do so and snappy.

#### For the Quarterback

26. Position: Sit with the less me (Not illustrated). Action: Graph. lower leg with both hands and pain the chest. The legs and buck straight as much as possible.

27. Position: Lie on the box . raised a hand-breadth from the rai (Not illustrated). Action: Abraleft and right, pull the knee to the with the help of the hands.

28. Position: The body is faring to ward and supported by the bask feet, thighs extended (Not illustrate Action: Hop forward with the let straddle stand and return.

29. Position: Lie on the back kall forward, toes touching the ground be the head, arms sideward (Not illustrate Action: Make semi-circles of the on legs to the right and left; los na ground.

### The Value and Method of Home Treatment Athletic Injuries

(Continued from page 35)

and do not allow the fingers to ship the patient's skin, 4. Begin and est massage of each part with stroking ish with a very light stroke. 5. The required for a massage; arm, five " minutes; leg, ten minutes; back, fifteen minutes.

#### Exercise

Too frequently athletes return to proafter recevering from an injury out find that the injured part cannot s

And play impound upon it. All Physics Heart to Lorger that The purpose of the authority of the auth The line and a consequent weaken-The state of the s Mer pain and a return of function Parting of the second s California de Wenken the Corrective exercises are, The property to already him the muse. We have the market and the second sec Walking or running in not Market to strengthen an ankle The letter be necessary to have one or The level musely or ligament Joseph In an injured region and The wise trainer will take time de up a group of exercises, then give To the injured player who should be ben at home and at any other time that he has. Exercises may be I at soon as heat and massage are They should be graded in olly. Soon after injury they should whit then, as pain subsides and funcreturns, the exercises should be wed and made more strenuous;

## Under the Showers

(Continued from page 33)

bik" Wilbur is one of the leaders of NATA, handling the West Coast his section, since the association was mied. He is now acting as third vicesident of the N. A. T. A. The profesa needs men like Bohm. We award him emonth's "Gold Plated Bucket" for outading work in the N. A. T. A.

1.8 Peariello, head trainer at Long Isd University, the school of the famous skelball teams, has been appointed manst of the section surrounding New York The handle the new high school trainprogram. Picariello presented the a sponsored by the N.A.T.A. to the the Eastern Coaching during August. He also handled training program for that clinic. who wishing to receive more informaabout the above mentioned plan ad contact Picariello or the N.A.T.A.

heb hauman of the St. Louis Browns abil team has been appointed chairof the professional baseball trainers on of the N.A.T.A. Bob is one of charter members of the association the contributed some fine articles on summes of baseball players. He has and many of the outstanding baseball "refor membership in the association the past few years. After the basesource, he is head trainer for St. Louis

ack Shuart did such a fine job as state of the NATA while at Alathat he was inneclintely awarded Position for the state of Missis-

sippi when he moved to that state as head trainer at "Ole Miss." Besides training athletic teams, Jack has studied law and some day the training profession may lose a good trainer.

West Point has the right idea about trainers. They now have two of the best in Roland Logan and Rollie Bevan. Bevan moved to West Point with his coach, Red Blaik. Up until that time Bevan was head trainer at Dartmouth. More schools should follow the example of West Point and employ more good trainers to discharge properly the many duties incident to training. Too many schools are trying to do the job without enough help.

Bill Raney, head trainer of the University of Alabama, has recently been appointed state manager of Alabama, replacing Jack Stuart who has moved on to Mississippi University, representing the N.A.T.A. He will have complete charge of the high school trainers' program. Coaches from that state or surrounding states wishing to receive information about this plan should contact, Raney. Bill has trained the Crimson Tide for several seasons. Your editor recently had the pleasure of reviewing Bill's new training quarters at Alabama, and found them to be complete in every respect. There is electrical equipment enough to make Steinmetz envious and gadgets that would have given Edison a thrill. The N.A.T.A. is very grateful for men of Raney's ability to act in the important position of state manager.

Raney has the niftiest way to apply benzoin or tuff-foot to any part of the body. He merely uses an insect spray gun filled with either fluid. It gives an even surface of benzoin and prevents waste. Because of the fine spray that the gun affords, the benzoin dries more rapidly, permitting the trainer to work on the part sprayed much sooner. Benzoin prevents tape rash, and enables the user to remove tape much more easily, as well as making possible perfect adhesive surfaces. Bill also uses a common squirt can to apply his rubbing dope. The can is handy, will not leak and will not spill. It is simple but good. Thank you, Raney, for the two helpful suggestions on handy gadgets for the training room.

Leonard Mann has trained athletic teams for the past thirty-five years. Fifteen of these were at Chicago University, two at Penn State and the rest at his present school, Purdue University. Reports come to me that the training rooms at Purdue University are the finest in the Big Ten. Purdue has in Dr. Floyd Eastwood a man who is doing much toward improving training methods and equipment. His new position on the board, recently appointed by the Football Coaches Association, will help him carry out his work nationally.

Jake Weber has been in the training profession for so long that it is easier for

him to remember the years he has been a trainer than the ones when he was not. He has trained Olympic teams and Fordham University teams, the latter for the past twenty-nine years. He is a trustee of the N.A.T.A. and almost the grandpappy of the trainers.

Howard Waite moved to Pittsburgh from Colorado University several years ago. At the latter school he had the pleasure of handling Whizzer White and has wished for another Whizzer ever since. Howard has recently perfected a knee brace that should take good care of some of the "Jikkey" knees around the country. This is a plug for Waite. His address is

just Pittsburgh University.

Eugene "Scrap Iron" Young, and he comes by the name honestly, has trained the Notre Dame teams nineteen years. I have heard that he has a Tung Oil grove down south and a very large tung tree all picked out with plenty of shade around it to keep the sun off when he retires. This tree has many tung nuts on it. Why? So that "Scrappy" can name each one after one of the Notre Dame greats. He has so many greats under his care that he would have to have a very prolific tree to carry out his naming idea. A great trainer and a great school-the two together will spell poison to many a football team.

Matt Bullock is starting his twentyseventh season at the University of Illinois as head trainer. Matt had a very serious illness a year ago and it looked as if he were not going to be able to continue his work at the school, but he has recovered and is back on the job. Zuppke has one worry off his mind-he has Bullock to condition his teams.

Every school should teach training methods to its physical education students just as Michigan State College does. The man responsible for this fine course is Jack Heppinstall, head trainer. The course is outstanding in the field of training. Future coaches are taught exactly what should be done to prevent injuries and how to treat them if they do appear, Michigan State men will know how to get the backs around the ends and also how to keep the men on the field playing. Jack has championed the trainer's cause ever since the association was formed and is one of America's outstanding trainers.

Tape Topics

TINDER the heading Tape Topics, a Column will appear in the October issue and subsequent numbers of the Trainers Journal containing questions and answers on trainers' problems. If you request immediate answers to your questions they will be sent you direct, otherwise held for the Tape-Topics column. All questions should be sent to the publication office of the Trainers Journal, Iowa City, Iowa. Until October we'll be taping. BILL FREY, Editor.