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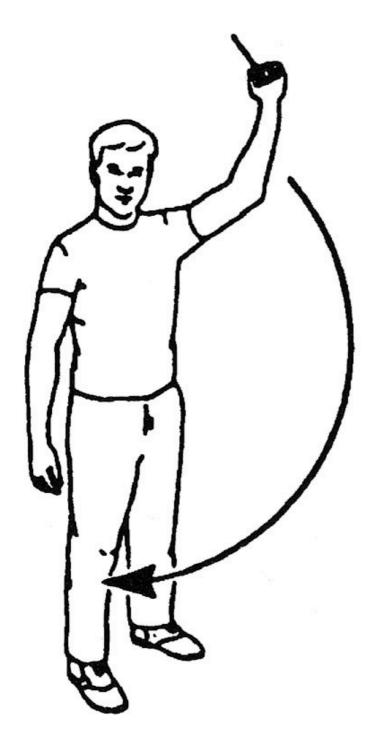
THROWERS TEN EXERCISE PROGRAM

The Thrower's Ten Program is designed to exercise the major muscles necessary for throwing. The Program's goal is to be an organized and concise exercise program. In addition, all exercises included are specific to the thrower and are designed to improve strength, power and endurance of the shoulder complex musculature.

Do each exercise		_ times a day.
Repeat each exe	rcise _	times.
Use	band f	or exercises.

1A. DIAGONAL EXTENSION (D2)

- o Involved hand will grip tubing handle overhead and out to the side.
- o Pull tubing down and across your body to the opposite side of leg.
- o During the motion, lead with your thumb.



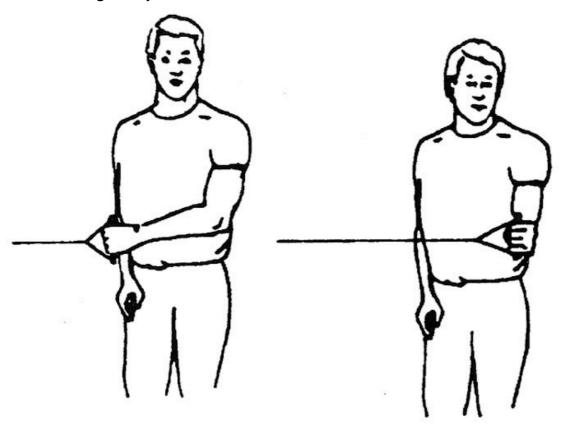
1B. DIAGONAL FLEXION (D2)

- o Gripping tubing handle in hand of involved arm, begin with arm out from side 45° and palm facing backward.
- o After turning palm forward, proceed to flex elbow and bring arm up and over involved shoulder. o Turn palm down and reverse to take arm to starting position.



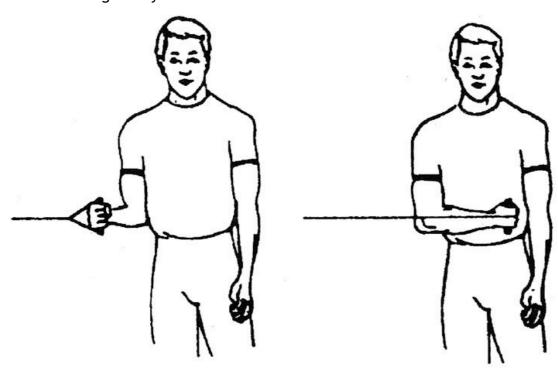
2A. EXTERNAL ROTATION @ 0°ABDUCTION

- o Stand with involved elbow fixed at side, elbow at 90° and involved arm across front of body.
- o Grip tubing handle while the other end of tubing is fixed.
- o Pull out arm, keeping elbow at side.
- o Return tubing slowly and controlled.



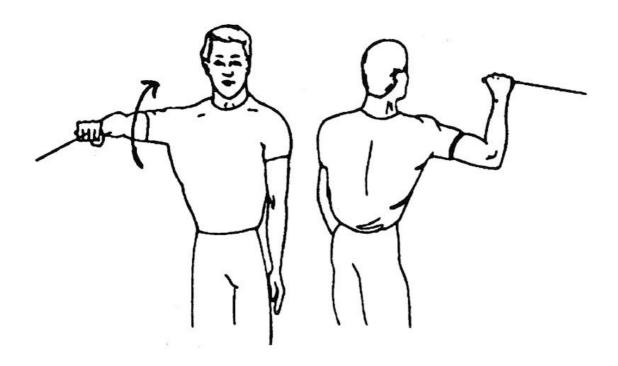
2B. INTERNAL ROTATION @ 0° ABDUCTION

- o Standing with elbow at side fixed at 90° and shoulder rotated out.
- o Grip tubing handle while other end of tubing is fixed.
- o Pull arm across body keeping elbow at side.
- o Return tubing slowly and controlled.



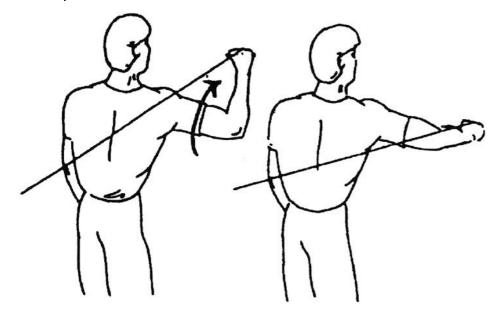
2C. EXTERNAL ROTATION @ 90° ABDUCTION (OPTIONAL)

- o Stand with shoulder abducted 90°.
- o Grip tubing handle while the other end is fixed straight ahead, slightly lower than the shoulder.
- o Keeping shoulder abducted, rotate shoulder back keeping elbow at 90°.
- o Return tubing and hand to start position.
- _ Slow Speed Sets
- _ Fast Speed Sets



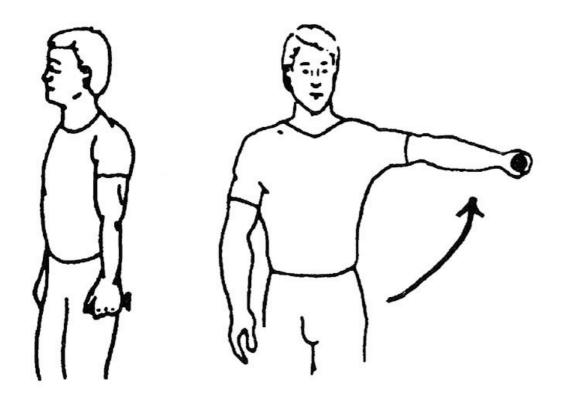
2D. INTERNAL ROTATION @ 90° ABDUCTION

- o Stand with shoulder abducted to 90°, externally rotated 90° and elbow bent to 90°.
- o Keeping shoulder abducted, rotate shoulder forward, keeping elbow bent at 90°.
- o Return tubing and hand to start position.
- _ Slow Speed Sets
- _ Fast Speed Sets



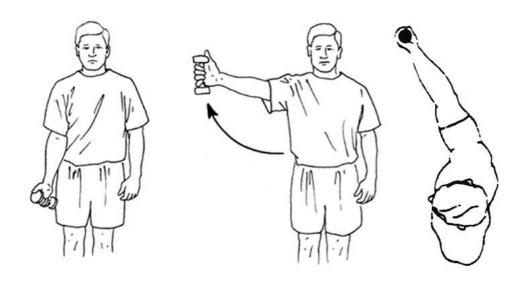
3. SHOULDER ABDUCTION TO 90°

- o Stand with arm at side, elbow straight, and palm against side.
- o Raise arm to the side, palm down, until arm reaches 90° (shoulder level).
- o Hold 2 seconds and lower slowly.



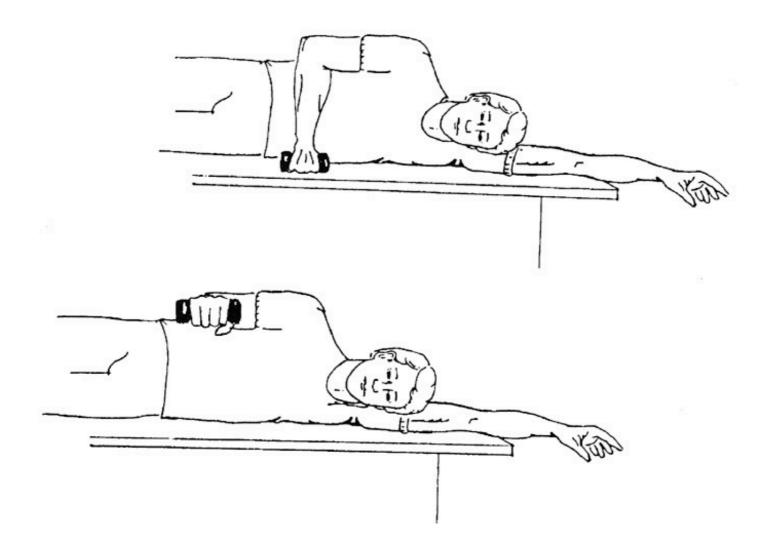
4. SCAPTION WITH EXTERNAL ROTATION

- o Stand with elbow straight and thumb up.
- o Raise arm to shoulder level at 30° angle in front of body.
- o Do not go above shoulder height.
- o Hold 2 seconds and lower slowly.



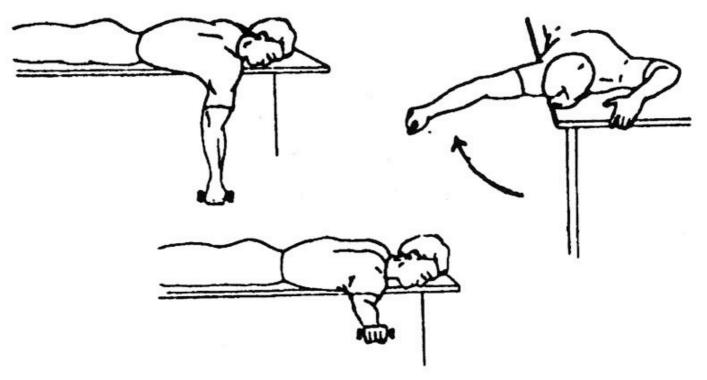
5. SIDELYING EXTERNAL ROTATION

- o Lie on uninvolved side, with involved arm at side of body and elbow bent to 90°. o Keeping the elbow of involved arm fixed to side, raise arm. o Hold 2 seconds and lower slowly.



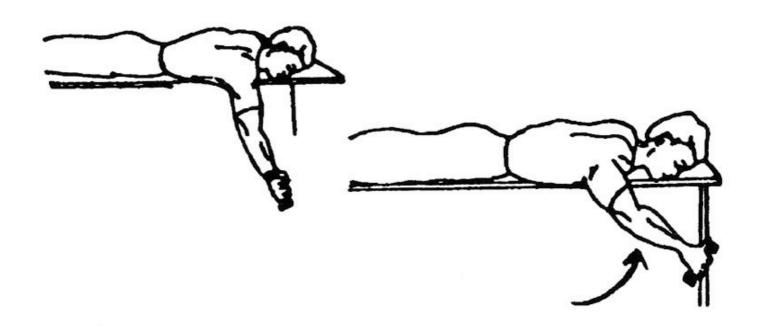
6A. PRONE HORIZONTAL ABDUCTION (NEUTRAL)

- o Lie on table, face down, with involved arm hanging straight to the floor, and palm facing down.
- o Raise arm out to the side, parallel to the floor.
- o Hold 2 seconds and lower slowly.



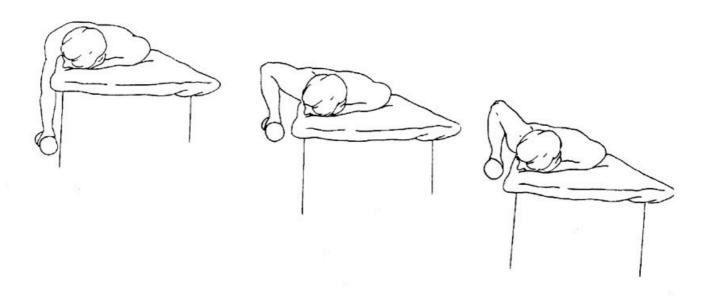
6B. PRONE HORIZONTAL ABDUCTION (FULL ER, 100° ABDUCTION)

- o Lie on table face down, with involved arm hanging straight to the floor, and thumb rotated up (hitchhiker).
- o Raise arm out to the side with arm slightly in front of shoulder, parallel to the floor.
- o Hold 2 seconds and lower slowly.



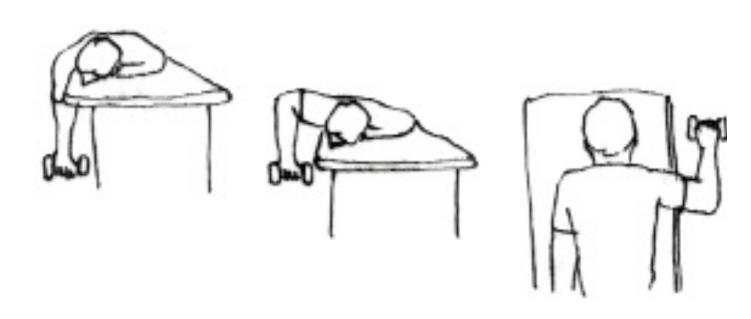
6C. PRONE ROWING

- o Lying on your stomach with your involved arm hanging over the side of the table, dumbbell in hand and elbow straight.
- o Slowly raise arm, bending elbow, and bring dumbbell as high as possible.
- o Hold at the top for 2 seconds, then slowly lower.



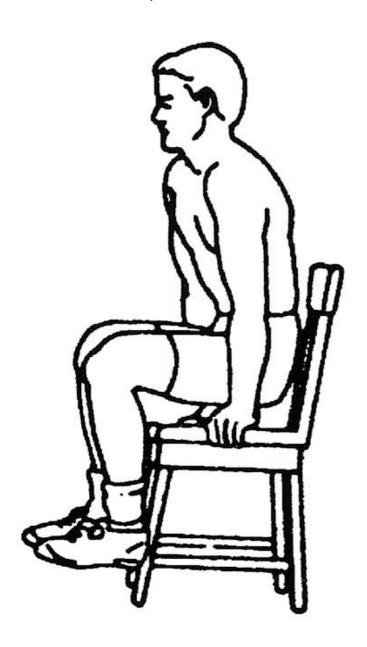
6D. PRONE ROWING INTO EXTERNAL ROTATION

- o Lying on your stomach with your involved arm hanging over the side of the table, dumbbell in hand and elbow straight.
- o Slowly raise arm, bending elbow, and bring dumbbell as high as possible.
- o Rotate forearm upward, keeping elbow bent, maintaining pain free position.
- o Hold at the top for 2 seconds, then slowly lower.



7. TRICEP PRESS-UPS

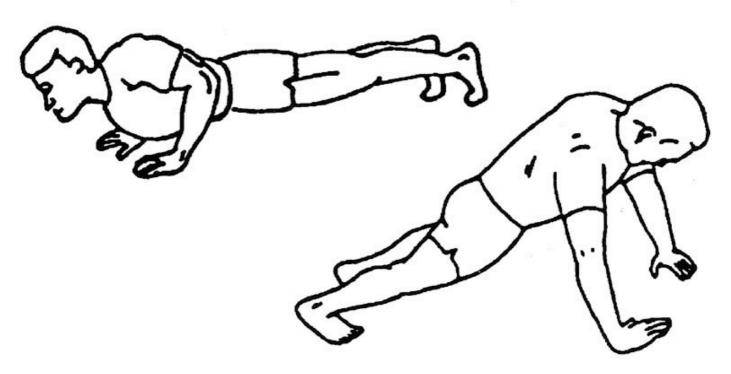
- o Seated on a chair or table, place both hands firmly on the sides of the chair or table, palm down and fingers pointed outward. o Hands should be placed equal with shoulders. o Slowly push downward through the hands to elevate your body. o Hold the elevated position for 2 seconds and lower body slowly.



8. PUSH-UPS

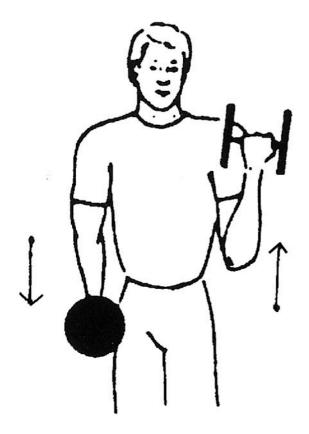
- o Start in the down position with arms in a comfortable position.
- o Place hands no more than shoulder width apart.
- o Push up as high as possible, rolling shoulders forward after elbows are straight.
- o Start with a push-up into wall.

Gradually progress to table top and eventually to floor as tolerable.



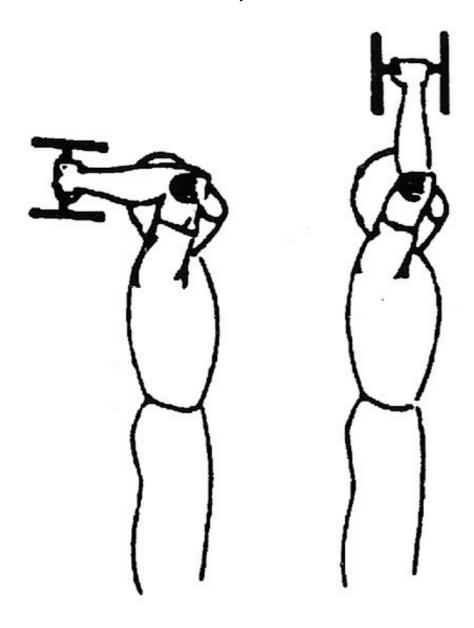
9A. ELBOW FLEXION

- o Standing with arm against side and palm facing inward, bend elbow upward turning palm up as you progress.
- o Hold 2 seconds and lower slowly.



9B. ELBOW EXTENSION (ABDUCTION) o Raise involved arm overhead.

- o Provide support at elbow from uninvolved hand.
 o Straighten arm overhead.
 o Hold 2 seconds and lower slowly.



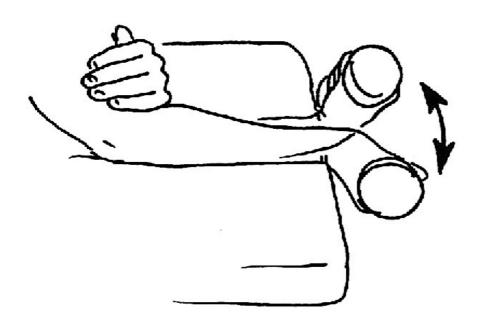
10A. WRIST EXTENSION

o Supporting the forearm and with palm facing downward, raise weight in hand as far as possible. o Hold 2 seconds and lower slowly.



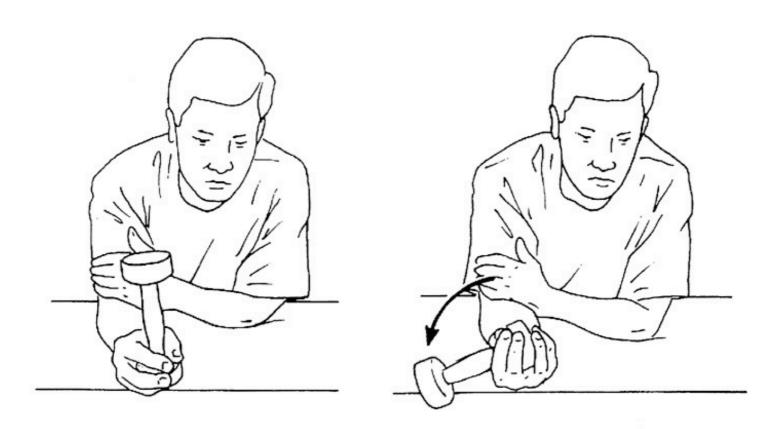
10B. WRIST FLEXION

o Supporting the forearm and with palm facing upward, lower a weight in hand as far as possible and then curl it up as high as possible. o Hold for 2 seconds and lower slowly.



10C. WRIST SUPINATION

- o Forearm supported on table with wrist in neutral position.
- o Using a weight or hammer, roll wrist taking palm up. o Hold for a 2 count and return to starting position.



10D. WRIST PRONATION

- o Forearm should be supported on a table with wrist in neutral position. o Using a weight or hammer, roll wrist taking palm down. o Hold for a 2 count and return to starting position.

