AN EXERCISE PLAN FOR BEARERS OF HEART DISEASE

A set of Suggested Exercises *

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UNITERMS: Special gymnastics. Heart disease bearers.

The exercises are organized so as work the different body areas in looseness, relation, coordination, flexibility and strength. There are three levels of difficulty; group "a" is the simplest and group "c" the most complex or demanding.

For beginners or little demanding:
- 2 looseness exercises, 2 of coordination, 2 of mobility and flexibility, 3 strength exercises (consisting of sit-ups, back and legs), 1 or 2 mobility and flexibility, 3 exercises of relaxation and looseness.

Example: 1,3 - 8a), 9a) - 11a), 13a) - "21a), 20a), 23a") - 13a), 15a) - 2, 5, 7a)

For advanced or demanding:
- 2 looseness exercises, 2 of coordination, 3 - 5 of flexibility and mobility, 4 - 5 strength exercises distributed throught the different areas of the body, 2 - 3 mobility and flexibility exercises, 3 looseness and relaxation exercises.

Example: 2,3 - 8a), 9b) - 11b), 12a), 15b), 13a) - "21a or b), 20a) or b), 23 a or b), 19 a), - 17a), - 14a), - 2,5,7 a) or b)

Exercises 5 and 6 should not be repeated more than 2 or 3 times in a row.

The strength exercises suggested from 19 to 24 must not be included in a plan for carriers of heart disease previous to a 3-week minimum training period. During the first weeks it is advisable to work out just variation "a" for 15 seconds and then, once there is no trouble, breathing-wise for instance, variations "b" and "c" may be included with timing gradually increasing.

In the strength exercises special attention must be given to breathing regularity.

Also in relaxation, work out period for exercises "7a" and "7b" must be that of approximately 30 seconds, later extended to a few minutes.

The patient must carry out these activities while he feels well and it is expected that he be honest to himself in this matter.

DESCRIPTION OF EXERCISES

1 - Looser right then left upper limbs, shaking hands arms.
2 – Looser upper limbs, shaking shoulders and arms.

3 – Slightly raise one of the legs, carrying out a quick weight transfer, shaking it in a relaxed way.

4 – With arms lined up with shoulder, relax one arm then the other, waiting for oscillatory movement to cease.

5 – Inhal and exhale deeply, relaxing trunk and arms when exhaling.

6 – From a press-up position of body and legs, slowly stretch out until completely stretched and then relax.

RELAXATION

7a) Relax in indicated position with eyes closed.

7b) Alternately: tighten arms and hands (clenched first) and relax; tighten legs and feet (stretching them out) and relax.

7c) Tighter whole body, stretching it out as much as possible and then relax.

COORDINATION

Balance

8a) On tip of toes, trunk extended, tighten buttocks and abdomen.

8b) Leaning on just one leg, remain static.

8c) Walk along a line, on tip of toes, forward and backward, eyes forward.

Coordination

9a) From initial position extend both arms simultaneously, one upward and one sideways.

9b) From initial position looser arms so as they go round in opposite ways.

9c) At the same time move first, forearm and arm in circles.

10a) Walk shifting support: right heel, left heel and right and left tip of toes.

10b) Walk moving right arm and leg forward and then left.

10c) Touch feet with hands as follows: right hand – left foot – crossing front left hand – right foot – crossing front the same, crossing at the back right hand – right foot – sideways left hand – left foot – sideways

Mobility:

11a) Move shoulders forward and backwards (slowly) shoulders.

11b) Move shoulders in circles forward and backwards.

11c) Clap hands alternating over head and at the back, over head and in the front.

trunk and backbone

12a) Extend trunk stretching out left arm and then right arm.

12b) Loosen head and shoulders sideways, in a relaxed way.

13a) With feet together twist trunk to both sides with help of arms.

13b) Following forward and backward oscillatory movement of the arm, move corresponding leg in the same direction.

14a) With hands behind your head, bring chin close to chest, gently pulling head.

14b) Sitting, backbone straight and legs slightly apart, tighten abdomen and back, relax letting trunk move forward.

coxofemoral articulation

15a) With legs extended move hips sideways.

15b) Move hips in circles to both sides, keeping shoulder still.

15c) Leaning on one leg, "draw" an eight with foot of opposite leg.
front muscles of leg

16a) Move hips forward with the help of hands slightly raising heels.
16b) Touch buttocks with heel, not dislocating hip.

back muscles of leg

17a) With trunk extended lean forward and try to extended legs keeping them apart, one in front of the other.
17b) Draw trunk close to thigh with legs bent, back straight, try to stretch them.

ankles

18a) Sitting with backbone straight, bend feet outstretching them slightly.
18b) Bend front leg bringing hip along, not taking heel from floor.

STRENGTH

upper limbs

19a) Press hands against each other abreast of chest
19b) Arm bending, keeping hip in proper position.
19c) Kneeling, bend arms on floor

back musculature

20a) In prone position, slightly raise head and shoulders looking at the floor.
20b) Standing, stretch out right arm and left leg and vice-versa.
20c) The same lying down, outstretch right arm and left leg and vice-versa.

rectus abdominis

21a) Arms crossed over chest, raise head slightly
21b) Arms crossed over chest stretch chin towards chest raising shoulders.
21c) Sit-ups with help of upper limbs.

obliquus

22a) bring knee towards opposite elbow
22b) Arms crossed over chest, raise shoulder slightly twisting trunk
22c) Sit-ups with help of arms, bringing them to the right side and then left side of knee (middle)

Leg and foot muscles

23a) Alternately touch toes and heel, slightly supporting leg
23b) Bend knees and extend legs again.
23c) Unbalance forward leaning or one leg, bending it. Extended bent leg and return to initial position
24a) Sitting properly, bend extend foot.
24b) Stand on tip of toes and then lean on heel, rocking on foot sole.
24c) Bend foot against resistance from other foot

* Continuation of the preceding issue

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Looseness and Relaxation Exercises

1

2

3

4

5

6

4

5

6

Inhale and exhale deeply; when inhaling move arm backwards

7a

7b

7c

Relax; eyes closed

Tightness followed by relaxing
Stretching and Mobilization Exercises

shoulder articulation

11a

11b

11c

Trunk and backbone

12a

12b

13a

13b

14a

14b
Exercises for Strength Development

hands, neck and shoulders

19a

19b

19c

dorsal musculature

20a

20b

20c

frontal musculature of abdomen

21a

21b

21c
transverse musculature of abdomen

leg musculature

foot musculature