

The invention refers to the medical equipment and may be used in traumatology in the functional development in case of fracture of shoulder, elbow, forearm, at trainings for development of articulations, reinforcement of muscles.

The installation for functional development of humeral articulation includes a frame (1) with guide grooves, on one end of which there are mounted bearing wheels (2), and on the other end – a folding footboard (3). In the central part of the frame (1) there is fixed a vertical support (5), onto which it is mounted with the possibility of rotation a horizontal axle (6), on one end of which there is rigidly mounted a wheel (7), on one spoke of which there are made adjusting holes (9), into one of which it is articulately mounted a hand fixation means, made in the form of glove (10) with a fastening bolt (11). On the other end of the axle (6) it is rigidly fixed a pulley (12), made with different diameters and joined by means of a belt (13) with another pulley (14), made with different diameters, rigidly fixed onto the axle (15) of a drive motor (16). From the end of the wheel (7), onto the frame (1), it is mounted a mobile chair (17) with bearing elements (18), placed into the guide grooves, equipped with a fixing handle (19), installed into the adjusting holes (9), onto the lateral parts of the chair (17) there are mounted two vertical supports (21), each equipped with a height control mechanism (22), and on the upper end of each support (21) it is mounted a fixative (23), the upper part of which is made arched of soft elastic material. From the other end of the wheel (7), onto the frame (1), it is mounted the second mobile chair (24) with bearing elements (25), placed into the guide elements, at the same time both chairs are equipped with height control and rotation mechanisms.

The installation additionally may contain a coupling bushing, fixed onto the horizontal axle (6) from the end of the pulley (12), and a handle (26) for mechanical setting in motion of the installation, which is joined with the bushing, as well as two handles (4), fixed onto the frame (1) from the end of the folding footboard (3).

Claims: 3

Fig.: 3

