

上肢智能康复机器人反馈训练系统A300

产品名称	上肢智能康复机器人反馈训练系统A300
公司名称	力迈德医疗（广州）有限公司
价格	.00/个
规格参数	
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产品详情

上肢智能反馈训练系统（上肢机器人）A300

A300- 标准版

A300- 高级版

A300- 豪华版

产品介绍：

上肢康复机器人是以神经可塑性原理为理论基础，实时模拟人体上肢运动规律设计的一款先进的上肢康复训练设备。患者通过重复训练，循序渐进治疗,可以有效提高患者的上肢协调性、肌肉力量、肩肘腕等关节活动范围和抓握的力量等上肢运动能力；帮助因脑卒中、脑外伤、脊髓损伤等导致上肢功能障碍的患者重新学习已失去的上肢功能，通过不断的训练促进神经与大脑的连接。

The design of Intelligent Upper Extremity Rehabilitation Feedback Training System A300 is based on neuro-plasticity principle and it comprised of advanced technology. This system can accelerate the remediation process and fast progressing therapy. In terms of improving daily functioning, self-initiated upper extremity repetitive training program includes coordination, muscle strength, range of motion and grasp training allows incremental improvements on the way to the long-term goal. By providing arm weight support, the A300 enables patients such as stroke, traumatic brain injury, spinal cord injury to use any remaining motor functions and encourages them to achieve a higher number of reach and grasp movements based on specific therapy goals.

功能特点:

1. 上肢关节5个自由度训练模式，可针对肩关节、肘关节、腕关节、手指抓握力进行多关节或单关节训练
适应2级肌力以上患者进行上肢主动训练
2. 独有的肘关节被动训练模式，改善肘关节活动范围，预防肌肉萎缩
3. 电刺激（FES）与上肢运动训练相结合(豪华版)
4. 多个角度传感器，全方位采集病人训练信息，实时记录训练信息和作出评估，直观地显示出治疗效果
5. 具有手臂减重系统，适当增加或减少患者上肢的负重，以达到最佳训练效果
6. 多种情景互动游戏，减少治疗枯燥性提高病人参与训练的主动性和兴趣
7. 记录治疗信息及治疗方案，建立患者数据库，治疗过程中治疗方案可调

1. The A300 allows simultaneous arm and hand training in an extensive workspace with five degrees of freedom includes shoulder, elbow, wrist and fingers joint (grasping). In

addition, the active training with multi-joint or single-joint is recommended for patients with manual muscle strength testing Grade 3 or above.

2. This system provides a unique passive training mode to address the critical functional motion of elbow to prevent muscular atrophy and reduction in the motion of the joint.

3. Functional electrical stimulation (FES) improves muscle strength and motor function. (Deluxe version only)

4. The built-in sensors of the system can detect the kinematic data of patient during training activities. The results can be used to analyze and document the patient ' s state and

therapy progress for further optimize therapy.

5. The arm support enables patients to achieve a better training outcome.

6. Implementation of the interactive training system can promote user motivation and engagement.

7. Performance data such as repetitions, resistance and progress are automatically captured for each user. Reports can then be utilized in the development of goals setting and

initiatives. injury to use any remaining motor functions and encourages them to achieve a higher number of reach and grasp movements based on specific therapy goals.

治疗作用：

1. 增加上肢关节活动角度，预防上肢肌肉萎缩
2. 提高运动目标准确性及大脑对上肢的控制能力

3. 缓解痉挛，抑制错误运动模式
4. 增强上肢的肌力与耐力，逐渐恢复上肢运动功能
5. 增强和改善上肢运动的协调性
6. 促进脑功能恢复

1. Improve muscle strength and range of motion, prevent muscle atrophy.
2. Enhance motor recovery related to neural plasticity.
3. To reduce spasticity, stabilize the shoulder to avoid compensation movement.
4. Increase muscular strength or endurance and restoration functional capability of upper extremity.
5. Improve the coordination of upper extremity.
6. Promoting brain plasticity and enhancing recovery outcome.

适应症：

脑血管疾病、严重的脑外伤或者其他的神经系统疾病造成上肢功能障碍或者手术后恢复上肢功能的患者。例如：中风患者、多发性硬化症、脑瘫、帕金森氏症、脊髓性肌萎缩症、脊髓损伤、创伤性脑损伤等。

Application in the field of neurology: e.g. stroke, severe traumatic brain injury, cerebral palsy, multiple sclerosis, spinal cord injury, Parkinson's disease, spinal muscular atrophy etc. Uses in the field of orthopedics, e.g. post shoulder, elbow and wrist joint surgeries and other conditions that limit mobility.