

Veterinary Science

Preparatory Training for the Veterinary Assistant

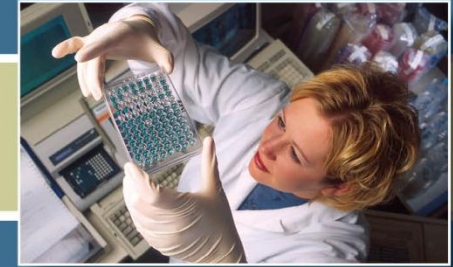
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FAZD CENTER

NATIONAL CENTER FOR FOREIGN ANIMAL
AND ZOONOTIC DISEASE DEFENSE

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Rehabilitation

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Objectives

- Define rehabilitation of animals
- Discuss the knowledge and experience of veterinarians specialized in rehabilitation
- List the types of animal health issues that can benefit from rehabilitation
- Discuss the benefits of rehabilitation for animal patients
- Discuss the clinical services of rehabilitation

Definition

- In a broad sense: repair of an injured animal
 - Aiding in the recovery of physically injured domestic and wild animals
 - Reducing and managing pain
 - Promoting health and fitness
 - Enhancing quality of life
 - Treating disabilities caused by a physical impairment

Experience and Knowledge

- Disciplines in anatomy and physiology
 - Orthopedics
 - Neurology
 - Myology
 - Biomechanics
 - Pain management

Types of Health Issues

- Sudden injuries
 - Orthopedic injury (skeleton)
 - Neurological injury (spinal cord)
 - Trauma (muscles, tendons, ligaments)
- Recovery from surgical procedures
 - Postoperative care for orthopedic injury
- Long-term degenerative conditions
 - Osteoarthritis (aging)
 - Debilitating metabolic diseases (diabetes, hypothyroidism)
- Obesity (over weight)

Benefits

- Patients become mobile after a severe orthopedic or neurologic injury
- Patients safely use a painful limb after an injury or surgery
- Improve and prolong the quality of life of geriatric and arthritic patients
- Achieve weight loss in overweight and obese animals
- Manage acute and chronic pain
- Increase the fitness of athletic and working animals
- Provide ambulatory assistance to patients who need ambulation carts (mobile support), orthotic devices (splints), or prostheses (limbs)

Clinical Services

- Therapeutic exercise
 - Underwater treadmill
 - Land treadmill
 - Manual therapy
- Massage therapy
- Stretch therapy
- Cold pack therapy
- Moist heat therapy
- Acupuncture
- Neuromuscular electrical stimulation
- Low-level laser therapy
- Therapeutic ultrasound
- Focused shockwave therapy
- Pulsed electromagnetic therapy
- Hyperbaric oxygen therapy
- Ambulation carts, orthotic devices, prostheses

Therapeutic Exercise

- Theraball
 - To help with balance and strength
- Underwater treadmill
 - Body bears less weight
 - Reduces load on painful joints
 - Water pressure reduces swelling and edema (hydrotherapy)
 - Water resistance improves musculo-cardiovascular system
 - Water float enables exercises
- Land treadmill
 - Encourages use of limbs
 - Reduces stress and pain
- Manual therapy
 - To mobilize joints

Low-level Laser Therapy

- Directs biostimulative energy to body cells
- Body cells convert chemical energy
 - Promotes natural healing
 - Promotes pain relief

Neuromuscular Electrical Stimulation

- Utilizes low-frequency pulsed alternating currents
 - Orthopedic and neurological diseases
 - Help relieve acute and chronic pain
 - Help prevent muscle atrophy

Acupuncture

- The insertion of needles into defined acupoints in the body
- To treat all forms of pain



Underwater Treadmill / Hydrotherapy



Land Treadmill



Theraball



Cold and Heat Therapy



Joint Mobilization Exercise



Low-level Laser Therapy



Neuromuscular Electrical Stimulation



Acupuncture



Ambulation Carts

