

# Valduce Hospital

## Villa Beretta

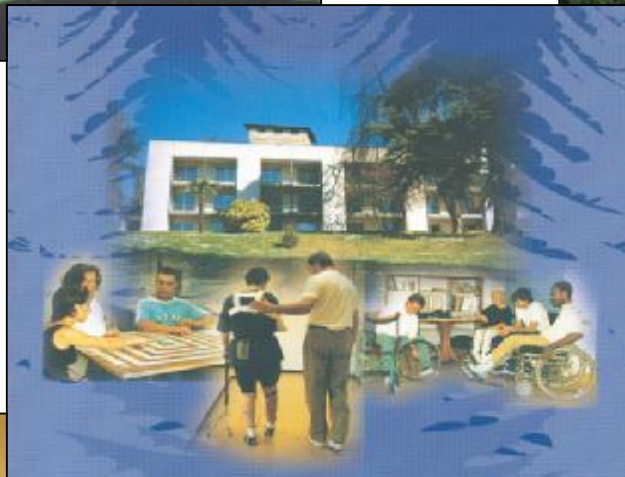
### Rehabilitation Centre

Via Nazario Sauro

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*ITALY*

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**We provide high-quality, compassionate medical care and rehabilitation for individuals with physical disabilities .**

**We treat many types of physical disorders, with special programs for people with:**

- **Traumatic brain injury**
- **Spinal cord injury**
- **Stroke**
- **Neuromuscular disease**



## **Facilities**

**81 beds ( 7 single rooms, 37 double rooms: each room with bath room and shower)**





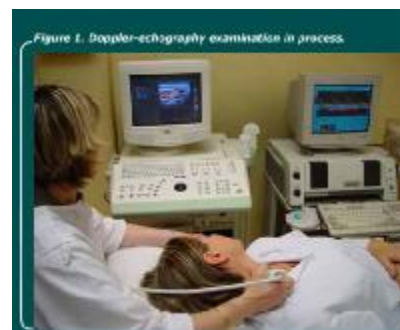
30 PT

4 Speech therapist

16 MD

## Medical Diagnostical Equipment

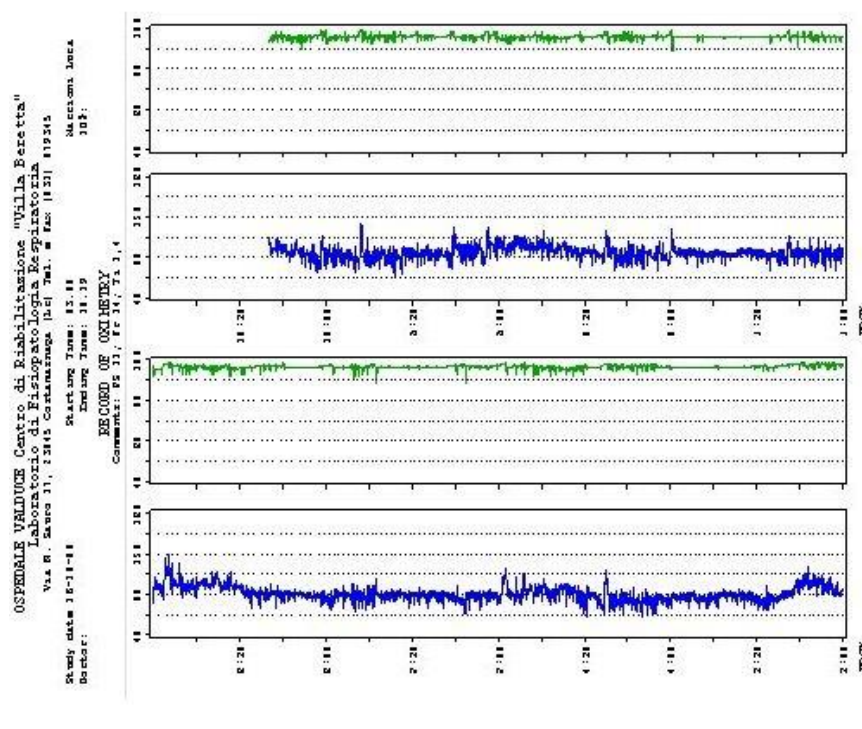
MRI, fMRI, CT, echography



**Electrodiagnostic Center** : combines the latest advances in clinical neurophysiology with computer technology to measure a patient's brain activity and to assess peripheral nerve and muscle function.

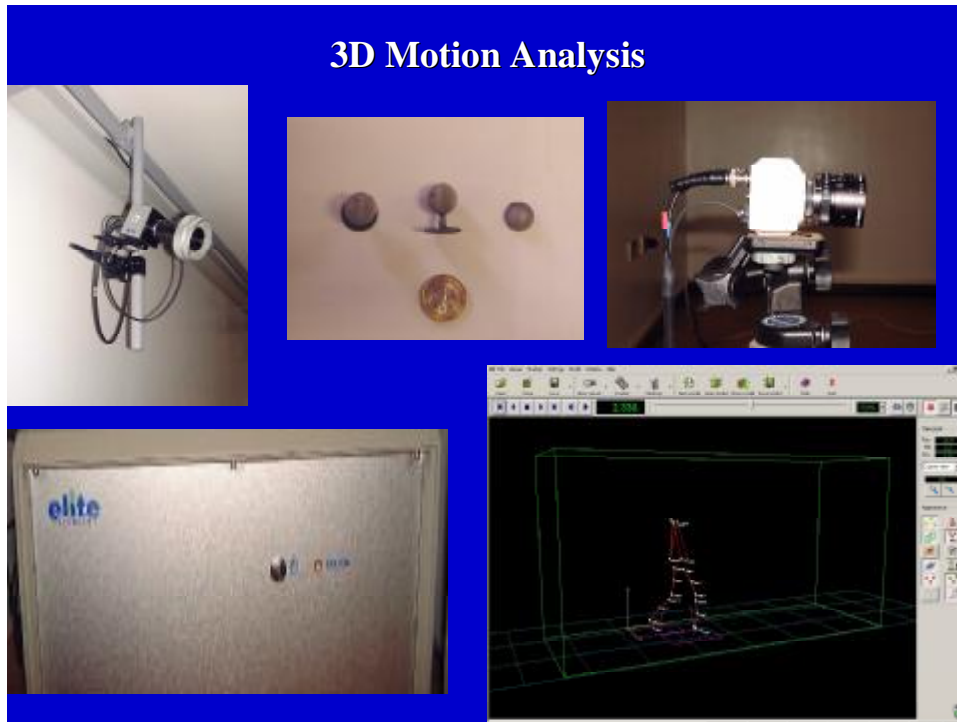


**Laboratory of respiratory physiopathology:** blood gas analyzer, spirometer, Polissonnography



## **Gait and Movement Analysis Lab (Dynamic EMG, 3D motion analysis):**

this Lab helps physicians evaluate causes of walking and related movement problems. This sophisticated lab analyzes muscle function and dexterity and is especially useful for patients with central nervous system disorders or neuromuscular disease. For patients with central and peripheral nervous system damage, motor control analysis provides a specific basis for corrective physical, medical, and surgical therapies



## **Special equipment for training**

### **Lokomat Robotic Gait Orthosis:**




## Erigo



## Wheelchair clinic

**Design Features**

- Snap-in/Snap-out NiMH battery
- Quick-release wheels
- Interactive wheel torque adjustment
- Compact size



A photograph of a black wheelchair with a motor and a battery pack. The wheelchair is shown from a side view. A circular inset image shows a close-up of a hand adjusting a wheel. The background is a blue gradient with gear icons.

## Isokinetic Cybex



## **Botulinum toxin treatment:**



Local treatment with botulinum toxins can be used as adjunctive therapy, along with oral antispasticity medications, or alone to provide localized decrease in symptoms of spasticity.

## **Intrathecal Baclofen Pump**



In this program individuals with severe spastic and dystonic hypertonicity are evaluated for placement and ongoing management of intrathecal baclofen pumps.

## **H.Valduce Villa Beretta Rehabilitation Center activity focuses on diagnosis and treatment of :**

- 1. Cognition:** Language disorders , Attention problems , Disorders of action , Recovery from coma
- 2. Motor control/mobility:** Understanding how movements, such as walking, are planned and carried out in healthy people and determining how to restore useful movement to people with paralysis, amputation and spasticity.
- 3. Outcomes:** Measuring how well people with disabilities function after completing the rehabilitation process and determining if treatments delivered are effective.
- 4. Respiratory Disorders:** we treat patients with neuromuscular disorders and respiratory insufficiency using nasal intermittent positive pressure ventilation (NIPPV) through a nose mask to support ventilation during the day-time and/or during sleep.

