

# HEMOPHILIA: TEACHING PROGRAM AT THE UNIVERSITY OF VALENCIA (SPAIN)



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The concept of hemophilia, the severity of clinical manifestations and disease problems: health problems, social problems and economic problems. All this represents a universe of ignorance for many people including some government officials. This lack of training and information also affects the medical community.

The University of Valencia, since 1983, has devoted resources to training in this pathology. Specifically, the Department of Physical Therapy, annual supply a subject (Diagnosis of treatment of the coagulopathies), 2 credits (20 hours) of free choice. Training, this has been conducted continuously each academic year until 2011



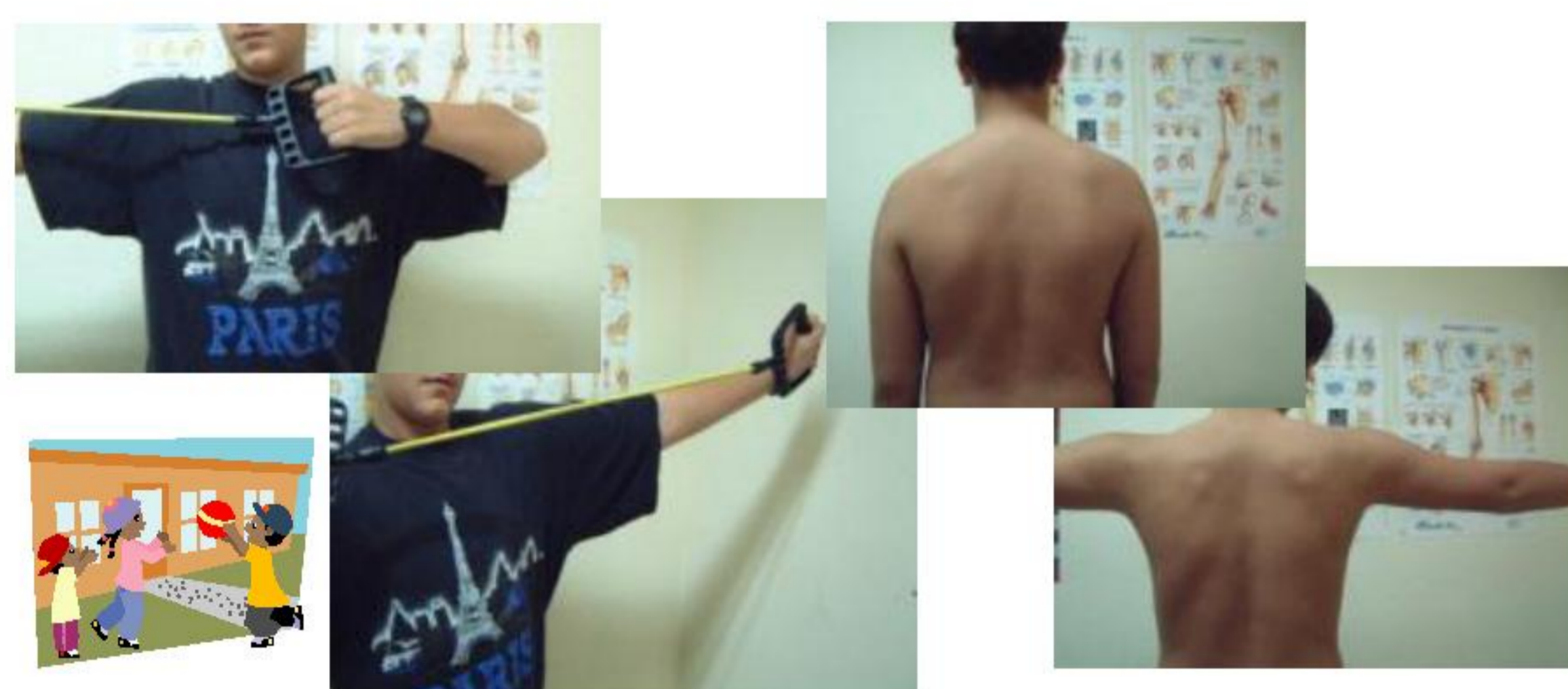
From the academic year 2011-12, Faculty of Physiotherapy at the University of Valencia, the new curricula (Bologna Process), for de Grade in Physiotherapy, include the study of hemophilia in the third year of degree in the subject: Clinics Physical Therapy Specialties. The aim of this paper is the description of the teaching guide.



The course contents include an overview of the coagulopathies, with a focus on musculoskeletal common injuries in the hemophiliac patient, diagnosis, evaluation and treatment

In summary, the course guides students in learning the evaluation and treatment of coagulation disorders (with special attention to hemophilia). There is no prior knowledge regarding the disease to study and do not specify restrictions to be accepted into the course. The resulting competencies are: Knowledge of clinical practice guidelines, evaluation of injuries, treatment planning objectives, evaluating and reporting results

<b>Block 1</b>	<b>Hematological concepts</b> Pathophysiology of haemostasis <b>Hemophilia: Overview</b> Laboratory and genetic Replacement therapy of clotting factors Prophylaxis Carriers
<b>Block 2</b>	<b>Musculoskeletal</b> Concepts of pathophysiology Common injuries in the hemophilic patient Haemarthrosis, synovitis, haematomas Haemophilic Arthropathy
<b>Block 3</b>	<b>Image</b> Conventional radiology Ultrasound CT MRN
<b>Block 4</b>	<b>Physiotherapy</b> General techniques Hemophilic patient global assessment Specific applications in acute episodes Prevention and treatment of sequelae Arthropathy and disability: Prophylaxis and treatment
<b>Block 5</b>	<b>Physical activity and sport</b> General concepts Evaluation of physical condition Recommendations for risk populations Sports
<b>Block 6</b>	<b>Psychosocial aspects</b> Family impact of haemophilia Personal acceptance and social consequences Adherence to treatment Patient associations



The classroom activities include theory and practices in laboratory (biomechanics, gym, pool, ultrasound, orthopedic clinics...). Also include practices in the hospital, in the Hemostasis and Thrombosis Unit, and is mandatory the development of individual jobs which qualification is assessed by a tutor.



The final evaluation includes a theoretical exam and a practical test to ensure, to the student, the ability to diagnose and functional recovery of common musculoskeletal injuries in the hemophiliac patient.

