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#### Information

Mr Yves BEGUIN

Clinical Haematology Department

Block B35 - CHU - 4000 Liege

Phone number : 04/366.76.90

e-mail address : Yves.Beguin@chu.ulg.ac.be

#### Presentation

Transfusion medicine has intensively evolved during the last decades thanks, in part, to the growing knowledge on transmissible diseases and their diagnostic tests, immuno-haematology and processing technologies. This field is submitted to a continuous evolution and should react in front of the challenge of emergent diseases and innovative knowledge and technologies.

Paradoxically, this scientific area, in a relevant number of EU member States is limited or poorly developed on the educational programs of the different educational cycles of the studies of Medicine and other Certifications on Health Sciences, leading to a limited training or knowledge of this part of the medical practice or, at least, to a heterogeneous training on this speciality.

Currently Transfusion Medicine learning occurs during a few months of the studies of Medicine through the Haematology specialization.

All this clearly indicates the need of a process of definition of a learning programme, at least, on the post-graduate situation.

To face this situation, the consortium of Transmed Project, has developed a common educational content of this scientific area, the European Master in Transfusion Medicine and Advanced Cell Therapies (EMTACT).

#### Special conditions of access / students concerned

Have a relevant BSc (for example Medicine, Pharmacy, Biomedical Sciences, Biology) or a Bachelor's degree with relevant course work, or its equivalent, in another relevant (bio-medical) discipline from a recognised university of good standing.

Insufficient previous education (e.g. a non-relevant BSc) may be compensated by sufficient professional experience in blood transfusion, blood banking, or cellular and tissue therapy, on the grounds of a decision to that effect taken by the board of admission.

Are sufficiently proficient in English, to be assessed by the Board of Admissions. This means to submit proof of: IELTS score 6.5; or TOEFL score 233 (computer-based), 577 (paper-based) or 91 (internet-based); C1 level within CEF (Common European Framework of Reference for Languages), unless they have completed previous education in Canada, USA, UK, Ireland, New Zealand, Australia or any other country providing bachelor education in English, or if they have obtained an International Baccalaureate or European Baccalaureate diploma. A Language Advisor to the Board of Admissions may conduct an interview with the applicant by telephone to verify his/her level of English.

#### Duration of the training

The structure of the programme will be a part time on-line programme offered in two years of 30 ECTS each (total 60 ECTS).

#### Courses programme

## First Year

### Module 0 : Introduction of the field

#### Compulsory courses

MCER0201-1	<i>Module I : Blood donation</i> (english language)				<b>9</b>
	- <i>Introduction</i> - N...	-	-	-	
	- <i>Promotion of Blood donation</i> - N...	-	-	-	
	- <i>Blood donation</i> - N...	-	-	-	
	- <i>Laboratory of hemodonation and transfusional safety</i> - N...	-	-	-	
	- <i>Elaboration of blood components</i> - N...	-	-	-	
MCER0202-1	<i>Module II : Transfusion</i> (english language)				<b>12</b>
	- <i>Introduction</i> - N...	-	-	-	
	- <i>Pre-transfusion tests and transfusion administration</i> - N...	-	-	-	
	- <i>Indications of transfusion</i> - N...	-	-	-	
	- <i>Incidents and transfusion effects</i> - N...	-	-	-	
	- <i>Alternatives to Allogeneic transfusion</i> - N...	-	-	-	
	- <i>Therapeutic aphaeresis and plasma exchange</i> - N...	-	-	-	
	- <i>Use of Plasma derivates</i> - N...	-	-	-	
MCER0203-1	<i>Module III : Immunohematology</i> (english language)				<b>9</b>
	- <i>Introduction</i> - N...	-	-	-	
	- <i>Erythrocyte-IH</i> - N...	-	-	-	
	- <i>Platelet - IH</i> - N...	-	-	-	
	- <i>Granulocyte-IH</i> - N...	-	-	-	
	- <i>HLA System</i> - N...	-	-	-	

## Second year

**Compulsory courses**

MCER0204-2	<i>Module IV : Cell and tissue therapies. Tissue Banks</i> (english language)				<b>15</b>
	- <i>Introduction of stem cell therapies</i> - N...	-	-	-	
	- <i>General Concepts on stem cell</i> - N...	-	-	-	
	- <i>Hematopoietic stem cell (HSC) therapy</i> - N...	-	-	-	
	- <i>Immunotherapy</i> - N...	-	-	-	
	- <i>Cell therapy for organ repair. Regenerative medicine. Advanced Therapies</i> - N...	-	-	-	
	- <i>Cell banking : cord blood</i> - N...	-	-	-	
	- <i>Tissue banking</i> - N...	-	-	-	
	- <i>Quality assurance, standards and accreditation</i> - N...	-	-	-	
	- <i>Regulations</i> - N...	-	-	-	
MCER0205-2	<i>Module V : Transfusion Medicine management concepts</i> (english language)				<b>5</b>
	- <i>Quality systems management</i> - N...	-	-	-	
	- <i>Information technology</i> - N...	-	-	-	
	- <i>Leadership, strategy and management</i> - N...	-	-	-	
	- <i>Finances and management control</i> - N...	-	-	-	
	- <i>Human Resources management</i> - N...	-	-	-	
	- <i>Marketing</i> - N...	-	-	-	
MTFE9004-1	<i>Module VI : Thesis of graduate degree</i> (english language) - COLLÉGIALITÉ	-	-	-	<b>10</b>

**Registration**

Enrolment will take place at the Consortium Secretariat, located at the Fundació Dr. Robert (Barcelona). Admitted Third Country students will send legalised documents while EU students certified copies to the Consortium's Secretariat and a signed acceptance letter together with commitment fee of 100 EUR once they have received the preadmission letter. Once revised, the Consortium's Secretariat will send the admission letter to the student.

Students must register on joining a course and then renew registration every year. Continued registration will depend on satisfactory progress, which will be formally reviewed at regular intervals.

There will be only one tuition fee, the same for European and non-European students. Fees cover tuition fees and all local administrative costs. These fees will be paid once a year to the consortium's secretariat (FDR).