


Be|SECT

BELGIAN SOCIETY OF EXTRACORPOREAL TECHNOLOGY

- **Created 1979**
- **75 members**
- **www.belsect.be**

Goals ?

- Promotion and recognition of our profession
- Link with EBCP  **The European Board
of Cardiovascular Perfusion**
 - => certification / recertification process
- EBCP accreditation of the perfusion schools/5y
- Perfusion training and education
 - => Educational evenings:
 - => to create links between professionals => 5 x / y
or 3 x + 1 symposium / 2y

- **Board:** Chair: Eddy Vandezande / Vice Chair: ? / Treasurer: Luc Puis / Secretaries: Jesse Wouters (Dutch) and Jean-Noël Koch (French)
- **Committees:**
- **Communication Committee:** Coordinator: Jesse Wouters / Website: Mathias Allegaert / Newsletter: Emmanuel Devolder / Luc Puis
- **Educational Evening Organizing Committee:** Coordinator: Korneel Vandewiele / Hendrik Bernolet / Luc Puis / Kenny Van Zwam
- **Governmental Committee:** Coordinator: Filip De Somer / André Gruslin / Leen Vercaemst / Albert De Bakker / Dominique Hella
- **Education and Training Committee:** Coordinator: Dominique Hella (EBCP delegate) / Leen Vercaemst / Albert De Bakker / André Gruslin / Gerdy Debeuckelaere
- **Symposium Organizing Committee:** Coordinator: Luc Puis / Emmanuel Devolder / Kenny Van Zwam / Korneel Vandewiele

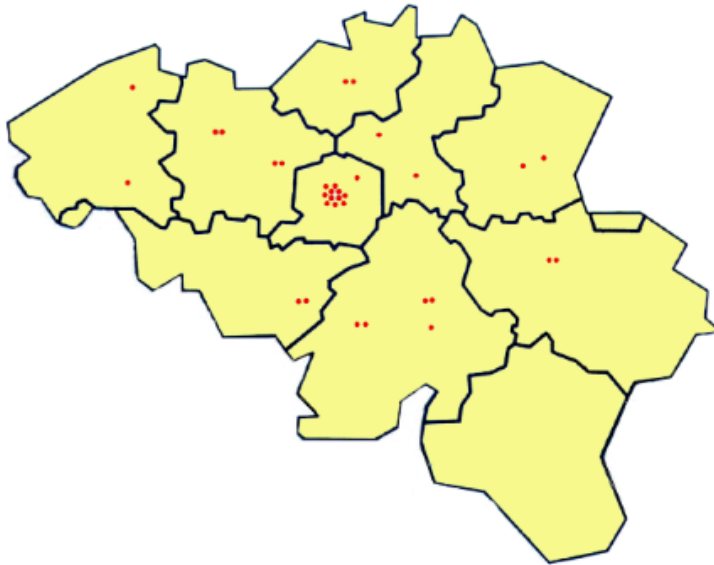
Philosophy of our Profession

- ECC in cardiac surgery and other
- Blood gas monitoring
- Coagulation monitoring
- Blood salvage
- ECMO/ECLS with follow up
- Assist devices and VAD coordination
- Transplantation: liver and heart
- Oncology: HIPEC / Limb perfusion / High frequency
- Organ perfusion
- Database management
- Research
- Teaching



Singularity of our 2 countries

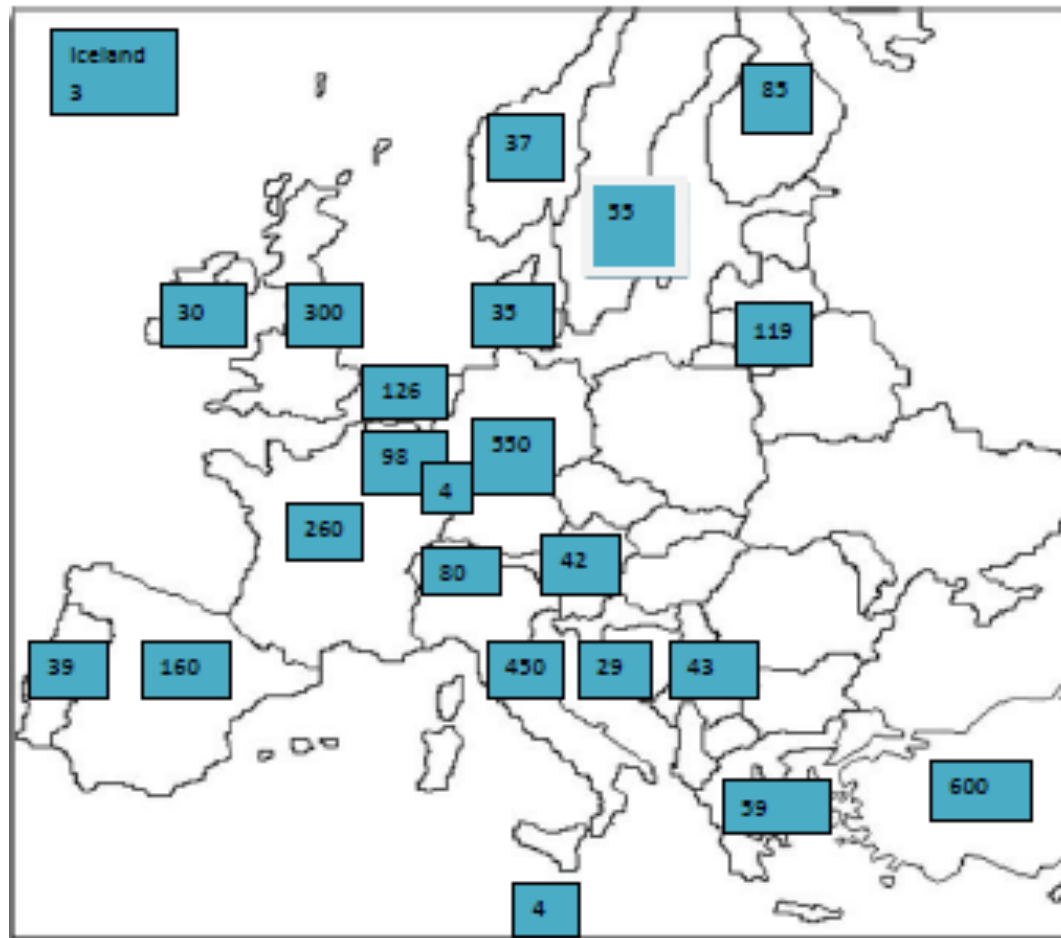
- Small countries
- Different languages



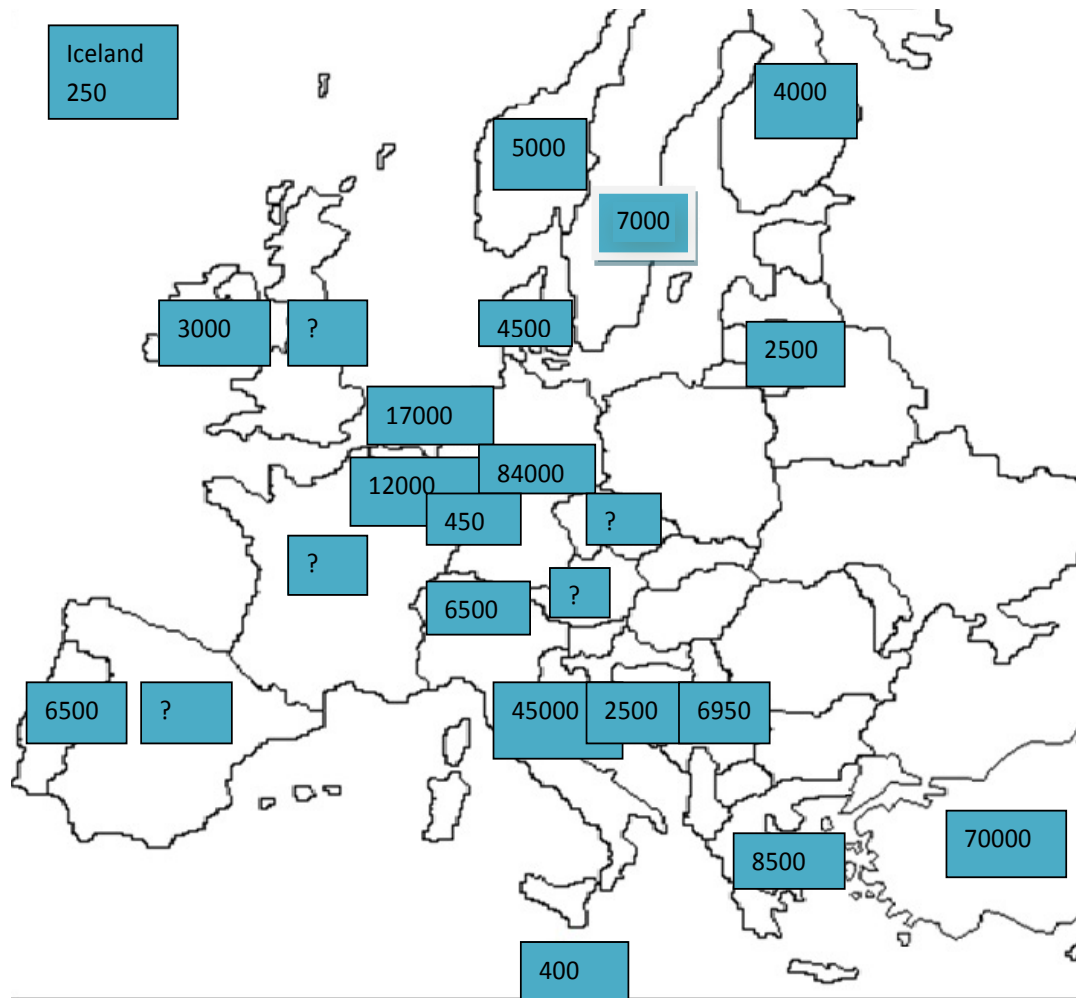
European Geography



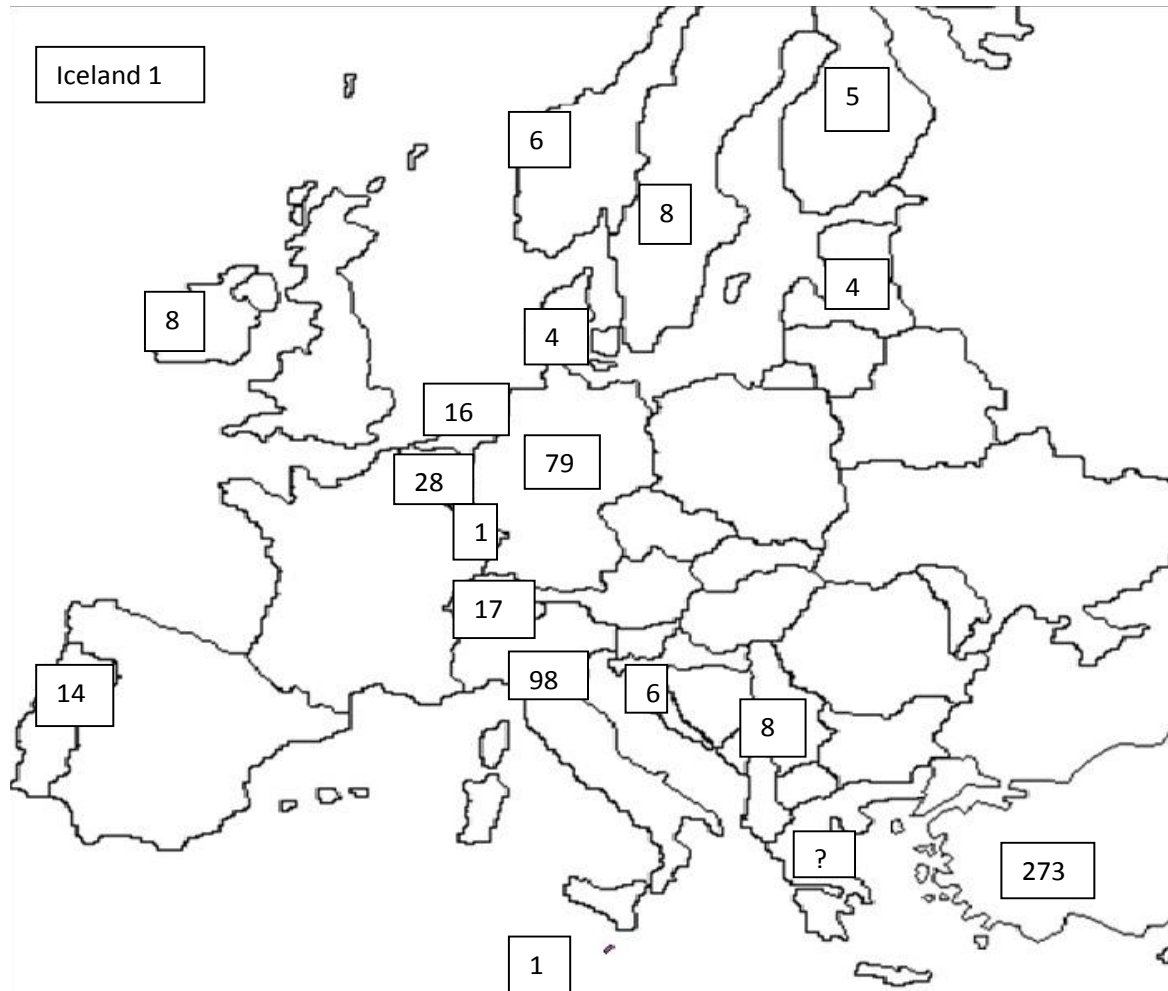
Number of perfusionists in European countries



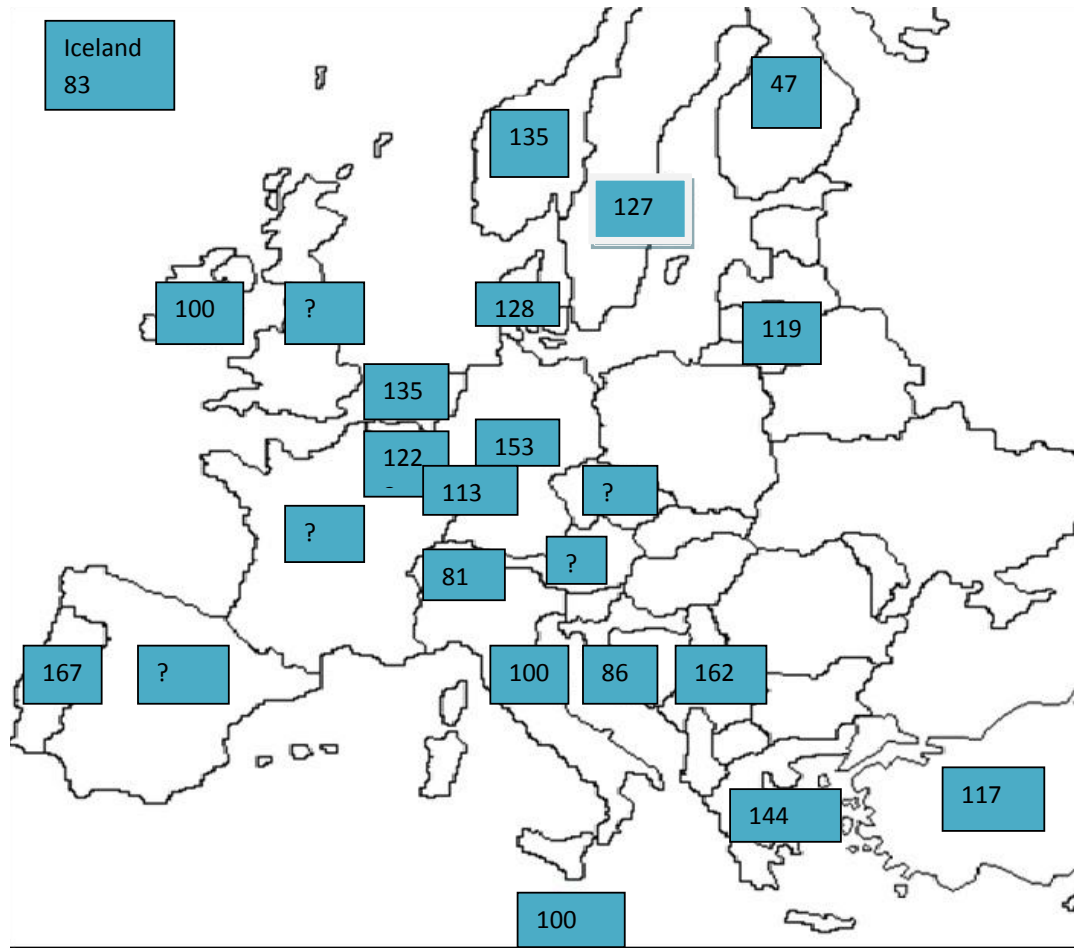
Number of ECC in European countries



Number of cardiac centers in European countries



Number of ECC/perfusionist



=> In the European countries that answered

- 2348 perfusionists doing 297 050 cases/ year
- 126 cases/ perfusionist in 577 centers
- +/- 4 perfusionists/ center
- **Total average**

Probably about 3500 perfusionists

doing +/- 450 000 cases/year

in about 800 centers / 5M inhabitants

=> 128 cases/perf/y and +/- 4,4 perf/center

Cardiac Centers in Belgium:

- 28 hospitals
- 98 active perfusionists
- 12343 cases / year (BACTS source 2011)

- Legally: min 250 cases/year/hospital
- Legally: min 2 perfusionists/hospital or/ operating room

ZOL Campus Sint Jan Schiepse Bos 6, 3600 Genk www.zol.be

ZNA Middelheim Lindendreef 1, 2020 Antwerpen www.zna.be

Universitair Ziekenhuis Brussel Campus Jette Laarbeeklaan 101, 1090 Brussel www.uzbrussel.be

Universitair Ziekenhuis Antwerpen Wilrijkstraat 10, 2610 Antwerpen www.uza.be

UZ Leuven Herestraat 49, 3000 Leuven www.uzleuven.be

UZ Gent De Pintelaan 185, 9000 Gent www.uzgent.be

OLV Ziekenhuis Aalst Moorselbaan 164, 9300 Aalst www.olvz.be

Jessaziekenhuis campus Virga-Jesse Stadsomvaart 11, 3500 Hasselt www.jessazh.be

Imeldaziekenhuis Imeldalaan 9, 2820 Bonheiden www.imelda.be

Hôpital de Jolimont-Lobbès Rue Ferrer 159, 7100 La Louvière www.entite-jolimontoise.be

HUDERF Jean-Joseph Crocq laan 15, 1020 Brussel www.hud erf.be

GHDC Saint Joseph Rue de la Duchère 6, 6060 Gily www.ghdc.be

Cliniques Universitaires Saint-Luc Avenue Hippocrate 10, 1200 Bruxelles www.saintluc.be

Clinique de l'Europe St. Elisabeth Avenue De Frélaan 206, 1180 Uccle www.cliniquesdeleurope.be

Clinique Saint Luc (Bouge) Rue Saint-Luc 8, 5004 Bouge www.st-luc-bouge.be

[Clinique Saint Jean](http://www.clinique-saint-jean.be) Kruidtuinlaan 32, 1000 Brussel www.clinique-saint-jean.be

[CUB ULB Hôpital Erasme](http://www.erasme.ulb.ac.be) Route De Lennik 808, 1070 Bruxelles www.erasme.ulb.ac.be

[CHU du Sart Tilman](http://www.chuliege.be) Domaine Universitaire du Sart Tilman B35, 4000 Liège www.chuliege.be

[CHU de Charleroi](http://www.chu-charleroi.be) Boulevard Zoe Drion 2, 6000 Charleroi www.chu-charleroi.be

[CHU Tivoli](http://www.chu-tivoli.be) Avenue Max Buset 34, 7100 La Louvière www.chu-tivoli.be

[CHU Saint Pierre](http://www.stpierre-bru.be) Hoogstraat 332, 1000 Bruxelles www.stpierre-bru.be

[CHU Mont Godinne](http://www.uclmontgodinne.be) Avenue Docteur Gaston-Therasse 1, 5530 Yvoir www.uclmontgodinne.be

[CHU Brugmann](http://www.chu-brugmann.be) Place Van Gehuchten 4, 1020 Brussel www.chu-brugmann.be

[CHR de Namur](http://www.chrn.be) Avenue Albert 1er 185, 5000 Namur www.chrn.be

[CHR Citadelle](http://www.chrcitadelle.be) Boulevard du 12ème de Ligne 1, 4000 Liège www.chrcitadelle.be

[AZ Sint Jan](http://www.azsintjan.be) Ruddershove 10, 8000 Brugge www.azsintjan.be

[AZ Maria Middelaes](http://www.azmmsj.be) Kortrijksesteenweg 1026, 9000 Gent www.azmmsj.be

[AZ Delta](http://www.azdelta.be) Wilgenstraat 2, 8080 Roeselare www.azdelta.be

[ASZ Aalst](http://www.asz.be) Merestraat 80, 9300 Aalst www.asz.be

Belgian Perfusionists

- 98 active perfusionists / 75 Belsect members
- 14 students
- 65 ECCP (2/3)
- 33 active without any certification (1/3)

Number of cases

- About 12000 cases / year in 28 centers
- No proportional repartition:
 - 6 centers > 800 cases
 - 10 centers 400 => 800 cases
 - 8 centers 200 => 400 cases
 - 4 centers 40 => 200 cases => must disappear?

Perfusion Training in Belgium

- **Two Perfusion Schools:**

1. Katholieke Universiteit Leuven (Flemish speaking part)
2. Université de Liège (French speaking part)

1986 : PSL / Perfusion School Leuven - KUL



- Theoretical training = 40 ECTS
- Practical training + paper presentation = 40 ECTS
- => 80 ECTS => Certificate of Competence validated by dean of Faculty of Medicine KUL
- New Master impossible to create (nb of Masters fixed + small nb of potential students)
- Master in Nursing at KUL + 40 ECTS Perfusion
- Opportunities for specialties and troubleshooting training on Perfusion simulator (Orpheus)

Perfusion School Leuven :

Requirements for completion of practical training/40ECTS at PSL

≥ 1200 training hrs

≥ 40 supervised well conducted ECC's as primary perfusionist
(all scores ≥ 6)

Orpheus Perfusion Simulator ≥ 5 contacts:

Demonstration of competence in basic perfusion techniques

Introduction to different ECC set-ups and protocols

Demonstration of competence in troubleshooting

Complete & well documented EBCCP logbook

Written positive evaluation of all aspects by responsible perfusionist (EBCCP) in training center

1992: ULG Faculty of Medicine



« Certificat de compétences en circulation extracorporelle »
= Certificate of Competence validated by dean of Faculty of
Medicine ULg



Année académique 2014-2015

Données en date du : 12/05/2015

Formation continue

Faculté de Médecine

Certificat d'université en perfusion et techniques appliquées

Or Th Pr Au Crédits

Structure des études

Informations complémentaires http://progcours.ulg.ac.be/cocoon/programmes/TUR_MYCPER.html

- Accueil
- Bacheliers, masters, masters complémentaires et agrégations
- Formations continues
- Doctorat
- Recherche par enseignant
- Recherche par cours
- Version imprimable (PDF)

The University Certificate



- Short cycle (60 ECTS)
- Compatible with professional activity
- Shorten fees (495 €)
- Specific courses with the same requirements than Master



- Limited to Perfusion
- Practical training not complete

2008: School of Public Health Faculty of Medicine, ULg



=> Master in Public Health, Perfusion
option



Programme des cours



Année académique 2014-2015

Données en date du : 12/05/2015

Faculté de Médecine

Présentation des études, débouchés
et acquis d'apprentissage

Inscription et
Admission

Site de la
Faculté

Horaires

- Accueil
- Bacheliers, masters, masters complémentaires et agrégations
- Formations continues
- Doctorat
- Recherche par enseignant
- Recherche par cours
- Version imprimable (PDF)

Master en sciences de la santé publique

[Or](#) [Th](#) [Pr](#) [Au](#) [Crédits](#)

Structure des études

[Master en 2 ans \(120 crédits\)](#)



The Master Degree

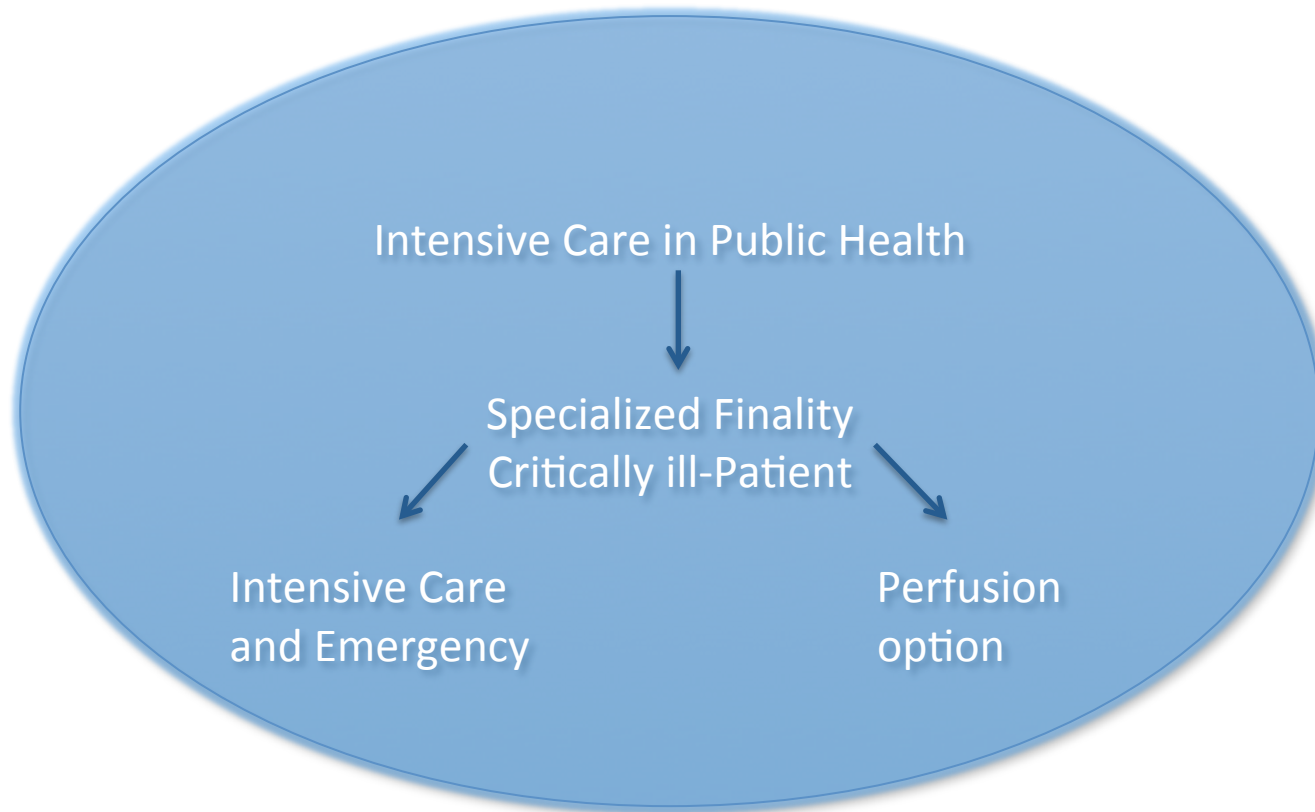


- Official University diploma
- More value in different fields
- Access to PhD

- Difficult to follow with full time job activity
(60 ECTS/y => total =120)
- Full fees +/- 850 € / y
- Workload
- Low Practical training => needs more practics to enter the profession

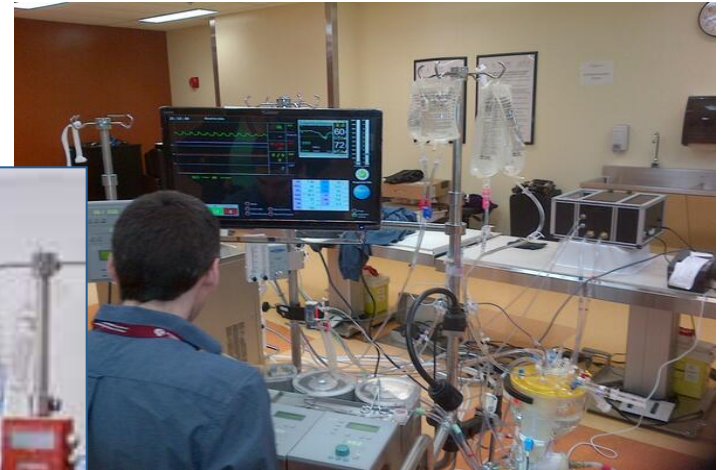
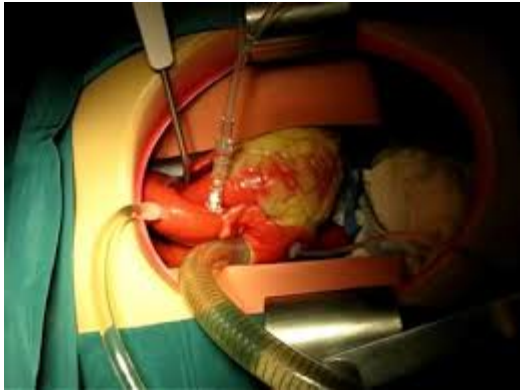
2015: Master Critically-ill patient, Perfusion option « Landscape decree »

Master in Public Health



Simulation as a tool for our education

Already in place in PSLeuven, coming soon in Liège



How to carry a training programme in Perfusion?



- Will and tenacity of Perfusionists => initiation of the programme with help of academic people
- Teachers = also Perfusionists
- Cardiac Surgeons and Anesthesiologists must support the programme and be involved in teaching
- Institutions must recognize the specificity of their perfusionists
- Contact with political world in second intention

RECOGNITION?

- 1979 BelSECT
- 1986 PSLeuven / 1990 June AR: perfusion = nurse's act
- 1991 Creation of the EBCP => push for creation of schools
- 1992 ULg «Certificat de Compétence en Perfusion »
- 1999 AR June 16: Normative framework of Cardiac Surgery Centers
- 2001 First EBCP accreditation of the 2 Belgian schools
- 2006 Official title of « Nurses specialized as perfusionists »
EBCP reaccreditation of the 2 schools
- 2008 Master Degree (ULg)
- 2011 EBCP reaccreditation of the 2 schools
- 2015 « Landscape Decree »=> fusion of ICU and Perfusion (2 options in the Master Degree ULg)

Visit of Belsect to the Ministry of Health: waiting for an answer about our profession

Belgium is not just Beer, Fries and Chocolates

- Open mind and humble people
- Find always compromise
- Real professionals

