

Discipline MCP5876
Critical Analysis of Heart Transplantation Results in the Treatment of Refractory Heart Failure

Concentration area: 5131

Creation: 11/12/2025

Activation: 17/12/2025

Credits: 2

Workload:

Theory (weekly)	Practice (weekly)	Study (weekly)	Duration	Total
4	12	14	1 weeks	30 hours

Professors:

Fábio Antônio Gaiotto
Fernando Bacal
Fabiana Goulart Marcondes Braga
Sandrigo Mangini

Objectives:

Training and improvement of human resource in research and teaching in heart transplantation, emphasizing aspects related to organ donation, the patient with refractory heart failure and the results of heart transplantation. Core Question: Is heart transplantation still the best option for the treatment of refractory heart failure in Brazil and worldwide?

Rationale:

Despite the great advance in the treatment of heart failure in the last decades, this clinical syndrome still presents a high mortality rate. Heart transplantation is considered the gold standard treatment of refractory heart failure, however, situations such as the shortage of donors limit the number of transplants and combined to the severity of the recipients, it has been increasing the indication and use of ventricular assist devices. Considering a reduced population for large randomized clinical trials, the critical analysis of the available data and the proposal of new research gives insights and allows better results in the field of heart transplantation.

Content:

The course will be divided into 3 modules and the students allocated in each of them: donor, recipient and transplant. On the morning of the first day, introductory lectures will be held and after the students will have 3 periods of study to prepare the seminars and a specific task for each module. At the end there will be evaluation. Monday morning – 8-12 am (4h) Course presentation Lectures: 1- Situation of heart transplantation in Brazil and worldwide 2- Strategies for preservation of donated heart 3- Strategies for indication and use of ventricular assist devices 4- Early complications of heart transplantation 5- Late complications of heart transplantation MODULE 1 Donor – Thursday morning – 8-12 am (4h) Seminars: 40 min each 1- Critical analysis of the functioning of the OPOs / Transplants' Center 2- Critical analysis of donor care 3- Critical analysis of donor assessment risk scores Group task: Ideal model proposition to increase the number of viable donors - 30 minutes MODULE 2 Receptor –

Thursday afternoon – 1-5 pm (4h) Seminars: 40 min each 1- Critical analysis of transplant indications (INTERMACS classification and available prognostic scores) 2- Receptor: priority vs outpatient 3- Critical analysis of the use of ventricular assist devices in Brazil Group task: strategies propositions to increase the number of transplants with better results in Brazil – 30 minutes MODULE 3 Transplantation – Friday morning – 8-12 am (4h) Seminars: 40 min each 1- Critical analysis of the results of immunosuppressive therapy in heart transplantation in relation to cell-mediated and antibody-mediated rejection 2- Infection and heart transplantation: critical analysis of heart transplantation in Chagas' disease and prevention of cytomegalovirus infection (prophylaxis vs. preemptive treatment) 3- Critical analysis of the results of randomized studies for the treatment of cardiac allograft vasculopathy Group task: strategies propositions to improve the late results of heart transplantation – 30 minutes

Type of Assessment:

Performance in preparing and presentation of seminars and group tasks Answer to the central question of the course A study proposal involving heart transplantation and / or refractory heart failure.

Notes/Remarks:

Minimum number of students: 6 Maximum number of students: 18 Language in which the course is offered: English

Bibliography:

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Class type:

Não-Presencial

Additional class type information:

- A porcentagem da disciplina que ocorrerá no sistema não presencial (1- 100%) - 100%
- Detalhamento das atividades que serão presenciais e das que serão desenvolvidas via remota, com discriminação do tempo de atividade contínua online. - Todas as aulas e seminários serão ministradas de forma on-line.

- Especificação se as aulas, quando online, serão síncronas ou assíncronas. – Síncronas
- Descrição do tipo de material e/ou conteúdo que será disponibilizado para o aluno e a A plataforma que será utilizada. – Google meet
- Definição sobre a presença na Universidade e, quando necessária, discriminar quem deverá estar presente (professora/professor; aluna/aluno; ambos). – Será on-line.
- Descrição dos tipos e da frequência de interação entre aluna/aluno e professora/professor (somente durante as aulas; fora do período das aulas; horários; por chat/e-mail/fóruns ou outro). - A assistência ao aluno será oferecida durante aula.
- A forma de controle da frequência nas aulas. - Presença durante todas as sessões com os professores (aulas e seminários)
- Informação sobre a obrigatoriedade ou não de disponibilidade de câmera e áudio (microfone) por parte dos alunos. – Câmeras e microfones abertos para a apresentação dos seminários e discussão após as aulas e seminários.
- A forma de avaliação da aprendizagem (presencial/remota). - Remota