Discipline **MCP5876**

**Critical Analysis of Heart Transplantation Results in the Treatment of Refractory Heart Failure**

**Concentration area:** 5131

**Creation:** 13/12/2016

**Activation:** 13/12/2016

**Credits:** 2

**Workload:**

<table>
<thead>
<tr>
<th>Theory (weekly)</th>
<th>Practice (weekly)</th>
<th>Study (weekly)</th>
<th>Duration</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>12</td>
<td>14</td>
<td>1 weeks</td>
<td>30 hours</td>
</tr>
</tbody>
</table>

**Professors:**

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: Situation of heart transplantation in Brazil and worldwide

Strategies for preservation of donated heart

Strategies for indication and use of ventricular assist devices

Early and late complications of heart transplantation

MODULE 1 Donor – Thursday morning – 8-12 am (4h) Seminars: 40 min each

Critical analysis of the functioning of the OPOs / Transplants’ Center

Critical analysis of donor care

Critical analysis of donor
assessment risk scores Group task: Ideal model proposition to increase the number of viable donors - 30 minutes Receptor - Thursday afternoon – 1-5 pm (4h) Seminars: 40 min each Critical analysis of transplant indications (INTERMACS classification and available prognostic scores) Receptor: priority vs outpatient 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 Critical analysis of the results of immunosuppressive therapy in heart transplantation in relation to cell-mediated and antibody-mediated rejection Infection and heart transplantation: critical analysis of heart transplantation in Chagas' disease and prevention of cytomegalovirus infection (prophylaxis vs. preemptive treatment) 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:**
See observation field

**Notes/Remarks:**
EVALUATION CRITERIA: 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 OBSERVATION: Minimum number of students: 9 Maximum number of students: 18

**Bibliography:**


Grimm M, Rinaldi M, Yonan NA, Arpesella G, Arizón Del Prado JM, Pulpón LA, et al. Superior


Languages taught:

Portuguese