Discipline MCP5890

Regenerative Medicine and Tissue Engineering in Thoracic and Cardiovascular Surgery

Concentration area: 5156

Creation: 15/10/2020

Activation: 15/10/2020

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>10</td>
<td>6</td>
<td>14</td>
<td>1 weeks</td>
<td>30 hours</td>
</tr>
</tbody>
</table>

Professors:

Luiz Felipe Pinho Moreira

Paulo Francisco Guerreiro Cardoso

Objectives:

OBJECTIVE: Address the fundamentals, materials and techniques of experimentation involving tissue engineering and regenerative medicine applied to thoracic and cardiovascular surgery. In this context, to analyze the existing models and proposals, emphasizing their advantages and disadvantages, providing the discussion of the levels of evidence observed and the perspectives of their clinical applications.

Rationale:

RATIONALE: The treatment of end stage heart and lung diseases continues to represent an important challenge. In this regard, the approach of the fundamentals, biomaterials and techniques used in tissue engineering and regenerative medicine allows the deepening and expansion of studies in the field of thoracic and cardiovascular surgery. Additionally, it provides a discussion of the various methodological aspects and questions related to the clinical application of these techniques.

Content:

Type of Assessment:
See observation field.

Notes/Remarks:
EVALUATION: Evaluation of the course will be conducted from the seminars and the elaboration of a conclusion report, which should follow aspects of the research methodology discussed. NOTE: Minimum number of students: 4 Maximum number of students: 20

Bibliography: