Discipline **MCP5867**
Pathophysiological Bases and Clinical Practice of Hypertension

**Subject area:** 5131

**Created:** 27/05/2014

**Active since:** 27/05/2014

**Number of credits:** 2

**Hours:**

<table>
<thead>
<tr>
<th>Theoretical (per week)</th>
<th>Practical (per week)</th>
<th>Self-study (per week)</th>
<th>Duration</th>
<th>Total</th>
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<tbody>
<tr>
<td>10</td>
<td>10</td>
<td>10</td>
<td>1 week</td>
<td>30 hour</td>
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**Faculty Members Responsible:**

Luiz Aparecido Bortolotto

Maria Claudia Irigoyen

**Objectives:**

Discipline aimed at postgraduate medical students and other health professionals with scientific interest in the area of Arterial Hypertension. The main objective of the module is to enable students to apply the fundamental concepts in Arterial Hypertension knowledge in research and clinical practice.

**Background:**

Hypertension is the medical area that has shown the greatest evolution in recent years, from a better understanding of the genetic and pathophysiological changes that lead to the disease, to the latest forms of treatment, including new technologies. Among the medical areas, it stands out as the greatest example of translational medicine, integrating perfectly the teachings of the basic area with the application of clinical practice and research. In this regard, the Arterial Hypertension Unit at the Heart Institute is a pioneer in this integration, allowing the development of several lines of experimental research coupled with studies in human beings, which contributes to a more complete understanding of the major disease that affects the Brazilian population. The team is recognized as the main group of studies in Arterial Hypertension in the country, counting with researchers and doctors with postdoctoral training abroad, including the coordinators of the course, and has several original international publications of impact with large number of citations. It is noteworthy that up to 1999, there was an Arterial Hypertension Discipline in the Department, with direct participation of the coordinators of the course, which was the most popular discipline among both the medical area and other related professionals. This discipline, however, was extinguished at the time of reformulation of the Cardiology courses. Thus, it is fundamental to create the Hypertension Discipline in the Postgraduate Course of the Cardiopneumology Department, in order to provide the adequate and comprehensive training of researchers in this wide area.

**Content:**


Assessment Method:

1. Performance and participation during lessons and discussions (faculty members responsible encourage participation and will attend all classes) 2. Elaboration of a proposal for a research project on hypertension

Observation:

Faculty: Professor Maria Cláudia Irigoyen, Professor Dr. Luiz Aparecido Bortolotto, Professor Dr. Fernanda Marciano Consolim Colombo, Professor Dr. Heno Ferreira Lopes, Professor Dr. José Jayme Galvão de Lima, Dr. Dante Marcelo Artigas Giorgi, Dr. Luciano Ferreira Drager.

Bibliography:

10. Sociedade Brasileira de Cardiologia; Sociedade Brasileira de Hipertensão; Sociedade Brasileira de Nefrologia. VI Brazilian Guidelines on Hypertension Arq Bras Cardiol. 2010 Jul;95(1 Suppl):1-51.
11. ESH/ESC Task Force for the Management of Arterial Hypertension. 2013 Practice guidelines for
the management of arterial hypertension of the European Society of Hypertension (ESH) and the
European Society of Cardiology (ESC): ESH/ESC Task Force for the Management of Arterial
high blood pressure in adults: report from the panel members appointed to the Eighth Joint
hypertension in the community a statement by the american society of hypertension and the