Discipline MCP5836
Valvular Cardiopathy: From Physiological Mechanisms to Critical Analysis of Therapeutic Options

Subject Area: 5131
Created: 27/05/2014
Active since: 27/05/2014
Number of credits: 2

Hours:

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Practical</th>
<th>Self-study</th>
<th>Duration</th>
<th>Total</th>
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<td>(per week)</td>
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<td>8</td>
<td>4</td>
<td>18</td>
<td>1 week</td>
<td>30</td>
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Faculty Member Responsible:

Flavio Tarasoutchi

Objectives:

To promote an in-depth, critical and up-to-date view on essential aspects of the natural history of valvular heart disease, with focus on pathophysiological mechanisms related to ventricular remodeling and pulmonary repercussions, as well as factors that determine a new design of imaging propaedeutic. In particular we intend to focus on: • the cellular, neurohumoral and muscular mechanism that interacts in the evolution of left ventricular remodeling in chronic valvular disease. • the progression to irreversibility linked to increased pulmonary vascular bed resistance and deleterious effects on right ventricular function. • the criticism of accuracy in imaging methods in relation to clinical status and the recent advances in the noninvasive detection of myocardial fibrosis. • the mechanisms of improvement of the cellular, neurohumoral and muscular function of the postoperative reverse left ventricular remodeling, and under pharmacological influence.

Background:

The themes presented as objectives represent a fundamental basis for the exercise of critical thinking about the knowledge, qualification and the right attitude to take towards valvular heart disease, and can also be extended to theoretical-practical approaches in other areas of Cardiology.

Content:

• Critical analysis of the rationale for the guideline recommendations in valvopathy. • Cardiopulmonary interaction in Mitral Valvopathy. Influence of hemodynamic and humoral factors on prognosis and therapeutics. Are the anatomo-functional pulmonary alterations in mitral valve disease reversible? • Trigger for ventricular hypertrophy. • Study of the muscular, cellular, vascular and neurohumoral compartments. • Interaction of neurohumoral, muscular and cellular mechanisms in left ventricular remodeling of chronic valve disease. • Illustration with cases of Mitral Insufficiency and Insufficiency of the practical approach of left ventricular remodeling. • Mechanical and hemodynamic factors associated with correction of valvopathy and left ventricular
remodeling. • Practical aspects of the therapeutic approach of patients with ventricular dysfunction secondary to valvopathy. • Practical approach to postoperative ventricular remodeling. • The prospects for the transcatheter treatment of Aortic Stenosis

Assessment Methods:
Class attendance and seminar evaluation.

Observation:
Minimum number of students: 04 Maximum number of students: 16

Bibliography:


