

Discipline MCP5896 
Critical Analysis of Clinical Studies in Cardiac Arrhythmias

Concentration area: 5131

Creation: 08/07/2021

Activation: 08/07/2021

Credits: 2

Workload:

Theory (weekly)	Practice (weekly)	Study (weekly)	Duration	Total
20	5	5	1 weeks	30 hours

Professors:

Martino Martinelli Filho

Paulo de Tarso Jorge Medeiros

Guilherme Drummond Fenelon Costa

Objectives:

OBJECTIVE: The discipline aims to medical post-graduate students and other health professionals with a scientific interest in the area of Cardiac Arrhythmias. The main objective is training professionals in applying the knowledge in the research field and clinical practice of the fundamental concepts in Cardiac Arrhythmias and Implantable Electronic Cardiac Devices.

Rationale:

RATIONALE: Scientific evidence regarding the importance of clinical and therapeutic management of Cardiac Arrhythmias is currently very robust. Thus, in recent years, numerous guidelines and protocols have emerged, which should be elucidated and applied by health care professionals. Furthermore, with the aging of the population and the technological evolution of diagnostic tools, it is possible to define the real prevalence and clinical importance of life-threatening cardiac arrhythmias. The increasing dissemination of this information among health professionals is essential because it can provide more effective actions for primary and secondary prevention of arrhythmic events and positively impacting the patient's survival and quality of life. These are the purposes of offering the Discipline of Clinical Studies in Cardiac Arrhythmias in the Post-graduate Course at the University of São Paulo.

Content:

CONTENT: Basis for interpreting clinical studies. 2. Critical analysis of the planning, methodological design, results, and conclusions of clinical studies in Cardiac Arrhythmias. 3- Theoretical-practical discussion, applied to the following modules: I-Bradyarrhythmia: diagnostic and therapeutic approach. II- Atrial Fibrillation - diagnostic and therapeutic approach. III-Ventricular tachyarrhythmias: diagnosis and therapy in structural diseases and

channelopathie. IV Cardiac Resynchronization Therapy: indications and results V- Sudden Cardiac Death: epidemiology, pathophysiology, and prevention.

Type of Assessment:

EVALUATION: The students' evaluation will be determined by the course attendance, utilization of the taught content, and participation during theoretical-practical activities.

Notes/Remarks:

NOTE: Minimum number of students: 05 Maximum number of students: 40

Bibliography:

BIBLIOGRAFIA: 1. Mark E. Josephson - Clinical Cardiac Electrophysiology: Techniques and Interpretation - Philadelphia, Lea & Febiger, 6th Edition, 2020. 2. Tratado de Arritmias Cardíacas – Fisiopatologia, Diagnóstico e Tratamento. Hachul D, Kuniyoshi R, Darrieux F. Ed. Atheneu 2019. 3. Tratado de Cardiologia da SOCESP. Consolin-Colombo FM; Saraiva JFK, Izar MCO. Ed Manole. 2019 4. Clinical Arrhythmology and electrophysiology E book : A companion to Braunwald's Heart Disease. Zipes DP, Miller JM, Issa ZF.; Elsevier, 2019 5. Atlas de Marcapasso: A Função através do Eletrocardiograma. Martinelli Filho M, Nishioka SAD, Siqueira SF. Ed Atheneu 2º edição. 2012 6. Diretrizes Brasileiras de Dispositivos cardíacos eletrônicos Implantáveis. Martinelli Filho, M; Zimmerman LI. Arq Bras Cardiol 2007; 89 (6): e210-e238 7. 2013 ESC Guidelines on cardiac pacing and cardiac resynchronization therapy (ESC/EHRA). Brignole, M; Auricchio A. European Heart Journal 2013; 3,2281-29. 8. Diretrizes para o diagnóstico e tratamento das arritmias cardíacas, síncope estimulação cardíaca e dias autonomias – ESC/AHA/ACC/SOLAECE. 9. II Diretrizes Brasileiras de fibrilação Atrial. Magalhaes LP, Figueiredo MJO. Arq Bras Cardiol 2016; 106(4supl 2):1-22. 10. Diretrizes para Avaliação e Tratamento de Paciente com Arritmias Cardíacas. Scanavacca I M, Brito S F. Arq Bras Cardiol (suplemento V) 2002 11. Capítulo de Arritmias Cardíacas do livro de Medicina Cardiovascular. Kalil /Fuster. Seção 8. Ano 2016. 12. Clinical Cardiac Pacing, Defibrillation and Resynchronization Therapy Kenneth Ellenbogen, Bruce Wilkoff. 5 edição. 2011. 13. 2015 ESC Guideline for the management of patients with ventricular arrhythmias and Prevention of Sudden Cardiac Death. Priori S, Lundqvist CB. European Heart Journal 2015. 36, 2793-2867. 14. 2017 AHA/ACC/HRS Guideline for Mangement of Patients With Ventricular Arrhythmias and Prevention of sudden Cardiac Death. Al Khatib AS, Stevenson WG. Circulation, volume 138 Issue 13 september 2018, e272-e391. 15. 2018 ACC/ AHA/ HRS Guideline on the Evoluution and Management of Patients with Bradycardia and Cardiac conduction Delay: A Report of the American College of Cardiology/ American Heart Association Task Force on Practice Guidelines and the Heart Rhythm Society. Kusumoto FM, Schoenfeld MH. J Am Coll Cardiol. 2018, 74(7)e51-56. 16. Moher D, Liberati A, Tetzlaff J, Altman DG; PRISMA Group. Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. PLoS Med. 2009 Jul 21;6(7):e1000097. doi: 10.1371/journal.pmed.1000097. Epub 2009 Jul 21. PMID: 19621072; PMCID: PMC2707599. 17. Pocock SJ, McMurray JJ, Collier TJ. Making Sense of Statistics in Clinical Trial Reports: Part 1 of a 4-Part Series on Statistics for Clinical Trials. J Am Coll Cardiol. 2015 Dec 8;66(22):2536-49. doi: 10.1016/j.jacc.2015.10.014. PMID: 26653629. 18. Pocock SJ, McMurray JJV, Collier TJ. Statistical Controversies in Reporting of Clinical Trials: Part 2 of a 4-Part Series on Statistics for Clinical Trials. J Am Coll Cardiol. 2015 Dec 15;66(23):2648-2662. doi: 10.1016/j.jacc.2015.10.023. PMID: 26670066. 19. Pocock SJ, Clayton TC, Stone GW. Design of Major Randomized Trials: Part 3 of a 4-Part Series on Statistics for Clinical Trials. J Am Coll Cardiol. 2015 Dec 22;66(24):2757-2766. doi: 10.1016/j.jacc.2015.10.036. PMID: 26700838. 20. Pocock SJ, Clayton TC, Stone GW. Challenging Issues in Clinical Trial Design: Part 4 of a 4-Part Series on Statistics for Clinical Trials. J Am Coll Cardiol. 2015 Dec 29;66(25):2886-2898. doi: 10.1016/j.jacc.2015.10.051. PMID: 26718676.