

Acute Coronary Syndrome (ACS)

Academic Half Day

Session Facilitator

Reginald E. Smith, ACPR, Pharm.D.

Clinical Pharmacy Specialist, Cardiovascular Medicine & Thrombosis

Overview

This academic session consists of two parts. This academic session will include the medical science history that has resulted in the current modern management of acute coronary syndromes.

Topics Covered in Part I (Pathophysiology, Diagnostics, Heart Catheterization)

- Statistics
- Pathophysiology
- Electrocardiogram in ACS
- Risk Stratification Tools
- Reperfusion Therapy & Measuring Reperfusion
- Heart Catheterization

Topics Covered in Part II (Pharmacotherapy of ACS)

- ACC Treatment Guidelines
- Betablockers
- Antiplatelet Therapy
- Anticoagulant Therapy
- Thrombolytic Therapy

Learning Objectives

At the conclusion of this academic session, the resident will be able to:

1. Describe the pathophysiology of ACS
2. Review a 12 lead ECG to determine presence of acute coronary syndrome and identify the most likely coronary blood vessel involved.
3. Describe the history of heart catheterization and identify the main management pathways for patients with ACS
4. Describe the pharmacotherapy used in the management of ACS and the relevant clinical trial history of how these therapies were developed.

Preparation

There are no specific pre-readings for this academic session. Links to documents are below.

Please visit the web site of the Canadian Cardiovascular Society and view the [Guidelines and Position Statement Library - Canadian Cardiovascular Society \(ccs.ca\)](#) Review the list of guidelines that are available in the library.

Please view the following guideline publications (detailed reading not required)

The objective of viewing these guideline documents is to be aware of the existence of these guidelines, and the topics that the guidelines cover.

[2019 Canadian Cardiovascular Society/Canadian Association of Interventional Cardiology Guidelines on the Acute Management of ST-Elevation Myocardial Infarction: Focused Update on Regionalization and Reperfusion - Canadian Journal of Cardiology \(onlinecjc.ca\)](#)

[2018 Canadian Cardiovascular Society/Canadian Association of Interventional Cardiology Focused Update of the Guidelines for the Use of Antiplatelet Therapy - Canadian Journal of Cardiology \(onlinecjc.ca\)](#)

[2021 Canadian Cardiovascular Society Guidelines for the Management of Dyslipidemia for the Prevention of Cardiovascular Disease in Adults - Canadian Journal of Cardiology \(onlinecjc.ca\)](#)