RCIS Review Course: A Two-Day Intensive

Day One

Session 1: Angiograms (Patrick Hoier and Megan Hunsinger)

- **Time:** 0900 - 0950
- **Description:** A comprehensive review of coronary and peripheral angiograms, including views and interpretation.
- **Outcome:** Identify different angiographic views and interpret coronary and peripheral anatomy.

Break

- **Time:** 0950 - 1000

Session 2: Pathology (Patrick Hoier and Megan Hunsinger)

- **Time:** 1000 - 1050
- **Description:** Examination of common cardiovascular pathologies, focusing on their appearance in angiograms and other imaging modalities.
- **Outcome:** Understand the appearance of common cardiovascular pathologies on imaging and their clinical significance.

Break

- **Time:** 1050 - 1100

Session 3: Assessment (FFR, IVUS, OCT) (Patrick Hoier and Megan Hunsinger)

- **Time:** 1100 - 1150
- **Description:** An in-depth look at physiological and anatomical assessments, including Fractional Flow Reserve (FFR), Intravascular Ultrasound (IVUS), and Optical Coherence Tomography (OCT).
- **Outcome:** Comprehend the principles and clinical application of FFR, IVUS, and OCT in assessing lesion severity

Lunch

- **Time:** 1150 - 1250

Session 4: Interventional Therapies & Structural Heart (Patrick Hoier and Megan Hunsinger)

- **Time:** 1300 - 1350
- **Description:** A review of common interventional procedures and therapies, including a focus on Structural Heart interventions like TAVR and MitraClip.
- **Outcome:** Describe the purpose and procedure of various interventional and structural heart therapies.

Break

- **Time:** 1350 - 1400

Session 5: Circulatory Support & Atherectomy (Patrick Hoier and Megan Hunsinger)

- **Time:** 1400 - 1450
- **Description:** Understanding mechanical circulatory support devices (Impella, VAD) and atherectomy devices (Rotablator, Diamondback, Shockwave).
- **Outcome:** Explain the function of mechanical circulatory support and various atherectomy devices.

Break

- **Time:** 1450 - 1500

Session 6: Peripheral Interventions (Patrick Hoier and Megan Hunsinger)

- **Time:** 1500 - 1550
- **Description:** A review of peripheral vascular anatomy and common peripheral interventional procedures.
- **Outcome:** Understand the basics of peripheral vascular anatomy and common peripheral interventions.

Break

- **Time:** 1550-1600

Session 7: Case Review and Q&A (Patrick Hoier and Megan Hunsinger)

- **Time:** 1600-1630
- **Description:** A final review of key concepts from the day, with time for questions and answers.
- **Outcome:** Apply knowledge from the day to clinical case scenarios and clarify any remaining questions.

Day Two

Session 1: Hemodynamics and Physiology (Patrick Hoier and Megan Hunsinger)

- **Time:** 0900 - 0950
- **Description:** The foundational principles of hemodynamics and cardiovascular physiology essential for the RCIS exam.
- **Outcome:** Grasp the fundamental principles of hemodynamics and cardiovascular physiology.

Break

- **Time:** 0950 - 1000

Session 2: Hemodynamics and Physiology (Continued) (Patrick Hoier and Megan Hunsinger)

- **Time:** 1000 - 1050
- **Description:** Further exploration of advanced concepts in hemodynamics and physiology.
- **Outcome:** Analyze and interpret advanced hemodynamic data and pressure tracings.

Break

- **Time:** 1050 - 1100

Session 3: Equations (Patrick Hoier and Megan Hunsinger)

- **Time:** 1100 - 1150
- **Description:** A review and practice session for the critical equations used in the cath lab.
- **Outcome:** Accurately recall and apply key hemodynamic and physiological equations.

Lunch

- **Time:** 1150 - 1250

Session 4: Pharmacology and ACLS (Patrick Hoier and Megan Hunsinger)

- **Time:** 1300 - 1350
- **Description:** A discussion of common cath lab medications and the key principles of Advanced Cardiovascular Life Support (ACLS).
- **Outcome:** Understand the indications, contraindications, and effects of common cardiac medications and ACLS protocols.

Break

- **Time:** 1350 - 1400

Session 5: X-ray Production and Protection (Patrick Hoier and Megan Hunsinger)

- **Time:** 1400 - 1450
- **Description:** A review of how X-rays are produced and the critical safety measures for radiation protection.
- **Outcome:** Explain the process of X-ray production and apply principles of radiation safety.

Break

- **Time:** 1450 - 1500

Session 6: Echo Views (Patrick Hoier and Megan Hunsinger)

- **Time:** 1500 - 1550
- **Description:** A comprehensive review of standard echocardiography views and their application in the cath lab.
- **Outcome:** Identify and interpret standard echocardiography views and their relevance to cath lab procedures.

Session 7: Final Review and Q&A (Patrick Hoier and Megan Hunsinger)

- **Time:** 1530 - 1600
- **Description:** A final opportunity to ask questions and review any remaining topics before the exam.
- **Outcome:** Synthesize all course content and feel prepared to take the RCIS exam.