## **Cardiothoracic Rotation Manual**

- 1-Cardiothoracic Syllabus 2-St. Joe's Information 3-Goals & Objectives CA-2 4-Goals & Objectives CA-3 5-Important TEE Parameters 6-Continuity Equation 7-PISA 8-Monitoring: \*TEE \*Pulmonary Artery Catheters \*Arterial Pressure \*BIS 9-Precardiopulmonary Bypass: \*Fluid Management \*Glucose Management \*Blood Pressure Management \*Ischemia \*Lung Injury & Oxygen 10-Cardiopulmonary Bypass: \*Heparin \*Hemofiltration 11-Postcardiopulmonary Bypass: \*Ischemia \*Hypoxemia \*Fast Tracking 12-Specific Cardiac Situations: \*Heart and Lung Transplantation \*Valvular Surgery \*AICDs and Pacemakers \*LVADs \*Minimally Invasive and OP-CABGs \*Cardiac Trauma \*Shock \*Pulmonary Hypertension \*Transfusion and Coagulation Management 13-Thoracie: \*Preoperative Assessment \*Double Lumen Endotracheal Tubes \*Fiberoptic Scope \*Postpneumonectomy Pulmonary Edema \*Postthoracotomy Pain Control 14-Postoperative Period \*Atrial Fibrillation
- \*Awareness 15-Drugs
  - \*New Agents and Applications
  - \*Lidocaine
  - \*Magnesium

\*Brain Dysfunction

- \*Nitric Oxide
- \*Antiarrthmics
- \*Phosphodiesterase Inhibitors

The Cardiac and Thoracic Anesthesia Rotation is an important step forward to manage difficult cases in your future anesthesia practice. In most part it is expected that you are mastering the basics in anesthetic management including effective and fast room preparation and timely preparation of the patients. Based on these skills it is easy to build up the new capabilities to manage these cases safely.

Keep in mind that the discussion of the cases on the previous day is very important. There are situations when you do not have detailed data on the computer. Based on the planned surgery there are opportunities to discuss the preparation of the patient and the OR and the most effective anesthesia management with the Cardiac Attendings.

After a complete room preparation, try to be at the bedside at 7:00 AM because it can be time consuming to put all information together and explain the relevant steps to the patient. Communicate with the attendings effectively. Do not afraid of asking questions.

This binder has some essential information for the cardiac rotation. As the cardiac anesthesia practice is changing the content of the binder will change also.

The CD contains the basic TEE views of the heart. Go through this CD a couple of times to understand the generation of the different views and the structures of the heart. Mastering the information of this CD is an important step to use the TEE in the OR. The goal is to learn these views in the 2<sup>nd</sup> year.

There are handouts about normal TEE data, hemodynamic measurements and evaluation of different valves. The goal is to understand and perform basic hemodynamic evaluations in the 3<sup>rd</sup> year.

We hope this binder will help you for having an effective cardiac rotation.

Tamas Seres, MD

From: Weitzel, Nathaen Sent: Fri 2/8/2008 7:49 AM To: HSC-SOM-Anes-Residents

Cc: Seres, Tamas; Puskas, Ferenc; Hawkins, Joy

Subject: Cardiac Lecture

I wanted to remind everyone that there are cardiac lectures every friday morning at the university. This conference is open to all residents who want to attend and I would encourage any CA-1 residents available to stop in and start learning about cardiac anesthesia issues. In 6 months, you will start to have rotations on Cardiac and Transplant, and many of the topics we cover will become very relevant to you once you start these cases. Some of the information may be advanced, but it will at least introduce the topic to you so that you will be more familiar with it when you start more difficult cardiac cases.

For those on their Cardiac rotation, cardiac lecture is required and introduces topics that we can discuss further during cardiac cases. If you have a reading day, then come into lecture and then go home and read. If you are in the OR at the university, then plan accordingly to have your room set up before lecture regardless of whether you are doing a heart or a lung case. If you are at the VA then the teleconference is the only solution for you. As far as Joes, the friday heart cases there start at 8:30. There is an understanding with the Joes attendings that you have lecture here at 6:30, and will be free as of 7 am. This gives you plenty of time to arrive at St. Joes by 7:30 to prepare for the case. This is not new information, and has been the set up on the cardiac rotation for a long time.

Thanks, Nate Weitzel

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