Welcome to the adult cardiac anesthesia section at Stanford. Please keep this CD for the duration of your residency. As you will note on the attached schedule, we will meet at 5:00pm in the Anesthesia Library on the first Monday of your rotation. We will review the goals, objectives, and responsibilities of your CV rotation.

1. **READING MATERIAL**
   
   **Manuals**
   A Practical Approach to Cardiac Anesthesia by Hensley FA, Marin DE, Little Brown, 2

   **Current texts**
   Pediatric Cardiac Anesthesia, 3rd edition, by Carol Lake is a good reference for congenital heart disease cases.

   **Journal Articles* - Reviews and Original Research**
   The articles included on this CD discuss topics that should be mastered over the course of your two to four months in CV Anesthesia.

2. **SET-UP**
   
   **Equipment and lines**
   Order lines the night before each case on the request forms in the anesthesia workroom. Order 2 pump IV sets for redo operations. Please request a Level 1 System if you wish. All lines for the first case of the day will be inserted in the operating room. Some lines will be inserted in the adult holding unit for cases, which start later. Order enough infusion pumps to be capable of infusing at least 4 drugs simultaneously. Drips should be primed and ready to infuse.

   **Drugs**
   In general, the following drugs should be drawn up and ready for use in CPB cases:

<table>
<thead>
<tr>
<th>Drug</th>
<th>Concentration</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atropine</td>
<td>0.5 mg/ml</td>
<td>2 ml</td>
</tr>
<tr>
<td>Epinephrine</td>
<td>10 ug/ml</td>
<td>10 ml</td>
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<tr>
<td>Epinephrine</td>
<td>100 ug/ml</td>
<td>10 ml</td>
</tr>
<tr>
<td>Phenylephrine</td>
<td>100 ug/ml</td>
<td>10 ml</td>
</tr>
<tr>
<td>Phenylephrine</td>
<td>1 mg/ml</td>
<td>10 ml</td>
</tr>
<tr>
<td>calcium chloride</td>
<td>100 ug/ml</td>
<td>10 ml</td>
</tr>
<tr>
<td>midazolam</td>
<td>1 mg/ml</td>
<td>20 ml</td>
</tr>
<tr>
<td>fentanyl</td>
<td>3-4 mg/total</td>
<td>60-80 ml</td>
</tr>
<tr>
<td>pancuronium</td>
<td>10-20 mg/total</td>
<td>20 ml</td>
</tr>
<tr>
<td>lidocaine</td>
<td>20 mg/ml</td>
<td>5 ml</td>
</tr>
</tbody>
</table>

*See Attached
**Infusions**
- dopamine
- nitroprusside
- nitroglycerin

**Ask the pharmacy to include the following in box:**
- etomidate
- scopolamine
- epsilon amino caproic acid – 30 gm
- heparin 30,000 units

Your preoperative visit should include a discussion of an intraoperative transesophageal echocardiogram. Take a specific history for esophageal disease and note any contraindications to TEE.

**Discuss the specifics of the particular anesthetic plan with your attending prior to each case. If you encounter a major problem during your pre-op evaluation, contact your attending. If you cannot immediately contact your attending for the case and the problem needs rapid resolution, contact the on-call cardiac anesthesia attending.**

3. **TRANSSESOPHAGEAL ECHO**
   You will receive 2 VCR tapes at the beginning of the month. You must complete and record a TEE exam on every one of your cardiac surgery patients. Please keep a separate log of each of your exams. A copy of the forms to be completed with each study are included on this CD. (See included materials--Stanford University Hospital Intraoperation TEE--for future information)

4. **SCHEDULING**
   The case schedule will be available at 5 pm Sunday through Thursday. If there are changes in the schedule after 8pm, plan to see the patient on the day of the surgery.

5. **AVAILABILITY**
   **Do not sign up to take transport call during your month of cardiac anesthesia.** Many transports are related to the Cardiothoracic transplantation program. Residents on the cardiac anesthesia rotation will be permitted to participate in the transport program only under rare and specific circumstances, which are organized by the on-call cardiac anesthesia attending.

6. **CONFERENCES**
   a) Monday 5:00 – 6:00pm CV Anesthesia Meeting (weekly, see attached schedule)
   b) Saturday 8:00 – 9:00am (adult) Cardiology-Cardiac Surgery-Radiology case conference, CVRB, 2nd floor conference room. A great opportunity to see cath films and review cases. You are required to attend at least one Saturday morning session (Please see attached schedule).
   c) All residents will have the opportunity to prepare and present a cardiac journal club and present a didactic lecture over the course of their months on CV anesthesia. Please check your monthly calendar for assignments.

7. **The cardiac anesthesia bulletin board is located outside room H3577. Please look there regularly for meeting announcements and other information.**