



# TSDA Weekly Curricula

## Thoracic Surgery Directors Association

TSDA Weekly Curricula for the week of **December 14, 2009**.

### Week 21 of 88, Year 1

To ensure you continue to receive timely TSDA news, or to provide another e-mail address for the TSDA Weekly Curricula, please forward contact information to [tsda@tsda.org](mailto:tsda@tsda.org).

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Welcome to Week 21, Year 1 of the TSDA Weekly Curricula. The Curricula is based on an 88-week lesson plan presented over two years (44 weeks per year). You can expect to receive TSDA Weekly Curricula e-mail messages every Thursday for the upcoming week, with the exception of holiday weekends. The weekly assignments are a supplement to your residency curriculum and include pre-requisite basic readings for newly-matched residents, as well as core curriculum topics with more extensive and in-depth materials for CT surgery residents. TSDA hopes the Weekly Curricula expands your current knowledge base and enhances your learning experience.

### PRE-REQUISITE READING

Interventional Cardiology, Chapter 5, pp 74-99, by Rocchini AP, in *Pediatric Cardiac Surgery, Third Edition*, Mavroudis C, Backer C (eds), Mosby, 2003.

### CORE CURRICULUM

#### Cardiac Topic: Off-Pump Coronary Bypass Surgery

#### Cardiac Talk\*

- [Tips and Techniques for Off-pump CABG](#) – Raymond Cartier, MD

\*Mac, Firefox, Safari, and Windows Vista users may experience difficulty loading talks. TSDA recommends viewing talks with Windows Explorer on a PC running Windows 2007 or XP.

#### Cardiac Video

- [Off-Pump All-Arterial Coronary Bypass: Surgical Revascularization for the New Millennium](#) – Jacob DeLaRosa, MD, Erez Sharoni, MD, John D. Puskas, MD (CTSNet Video 2004)

#### Cardiac Readings

- Myocardial Revascularization Without Cardiopulmonary Bypass, Chapter 23, pp 633-652, by Dewey TM, Mack MJ, in *Cardiac Surgery in the Adult, Third Edition*, Cohn LH (ed), New York, McGraw-Hill, 2008.

- [Off-Pump Myocardial Revascularization](#), by Desimone J, Sergeant P, (under Revascularization of Ischemic Myocardium), in *Multimedia Manual of Cardiothoracic Surgery*, October 6, 2006.

## Additional Cardiac Readings

*(Regarding first and second readings listed below: Two large retrospective analyses of OPCAB v. ONCAB. Both are observational, non-randomized studies involving multiple centers with varying techniques. Is surgeon bias regarding the use of the pump possibly produced by the perceived technical difficulty of case? Specifically, is an experienced, technically excellent, busy surgeon more likely to feel comfortable performing an OPCAB procedure on the same patient a less experienced, younger surgeon might not chose OPCAB; i.e., is there surgeon bias for performing technically more difficult operations ONCAB, particularly by surgeons who may have less experience and may have poorer results in general.)*

- [Off-Pump Techniques Benefit Men and Women and Narrow the Disparity in Mortality After Coronary Bypass Grafting](#), by Puskas JD, Edwards FH, Pappas PA, O'Brien S, Peterson ED, Kilgo P, Ferguson TB, Jr, in *The Annals of Thoracic Surgery*, 2007; 84:1447-1456.  
*(A retrospective analysis of over 42,700 patients on whom data was retrieved from the STS database. No follow-up is available after 30 days, therefore only peri-operative outcome are available. Eighty-three centers contributed.)*
- [Off-Pump Versus On-Pump Coronary Artery Bypass Graft Surgery Differences in Short-Term Outcomes and in Long-Term Mortality and Need for Subsequent Revascularization](#), by Hannan EL, Wu C, Smith CR, Higgins RSD, Carlson RE, Culliford AT, Gold JP, Jones RH, in *Circulation*, 2007; 116:1145-1152.  
*(A retrospective analysis of 49,830 patients retrieved from the New York State Cardiac Surgery Reporting System [CSRS] database. Follow-up is three years. The article discussion raises excellent points about the limitations of the study.)*

*Studies looking specifically at neurological outcomes of OPCAB vs. ONCAB are reported in third and fourth readings listed below.*

- [Neurocognitive Outcomes 3 Years After Coronary Artery Bypass Graft Surgery: A Controlled Study](#), by Selnes OA, Grega MA, Bailey MM, Pham L, Zeger S, Baumgartner WA, McKhann GM, in *The Annals of Thoracic Surgery*, 2007; 84:1885-1896.  
*(A prospective, non-randomized controlled study designed to evaluate neurological outcomes after ONCAB or OPCAB. Unique for the simultaneous comparison to two control groups having non-surgical coronary artery disease or healthy hearts. Neurocognitive outcomes did not differ significantly between the On- and Off-Pump groups after three years, but both groups paralleled a trend of neurocognitive decline. Strikingly, the trend of neurocognitive deterioration in both On- and Off-Pump groups also paralleled the nonoperative-coronary artery disease group. This is further evidence that neurocognitive decline is predictable in patients with CAD in general, likely due to associated cerebrovascular disease, and prior cerebral ischemia injury.)*
- [Cognitive and Cardiac Outcomes 5 Years After Off-Pump vs. On-Pump Coronary Artery Bypass Graft Surgery](#), by van Dijk D, Spoor M, Hijman R, Nathoe HM, Kalkman CJ, for the Octopus Study Group, in the *Journal of the American Medical Association*, 2007; 297:701-708.  
*(A small prospective randomized trial with five year follow-up comparing ONCAB v OPCAB in healthy, low risk patients. The trial was designed specifically to compare neurological outcomes, but also observed no significant difference in cardiac events over five years.)*

## Thoracic Topic: Pleural Disease: Malignant Mesothelioma

### Thoracic Talk\*

- [Current Therapy for Malignant Mesothelioma](#) – Larry P. Kaiser

\*Mac, Firefox, Safari, and Windows Vista users may experience difficulty loading talks. TSDA recommends viewing talks with Windows Explorer on a PC running Windows 2007 or XP.

### Thoracic Reading

- Diffuse Malignant Mesothelioma, Chapter 65, pp 906-917, by Flores RM, Rusch VW, in *General Thoracic Surgery, Sixth Edition*, Shields TW, LoCicero J, Ponn RB, Rusch V (eds), Lippincott Williams & Wilkins, 2005.
- Diffuse Malignant Pleural Mesothelioma: The Role of Pleurectomy, Chapter 54, pp 442-449, by Kukreja J, Jablons DM, in *Difficult Decisions in Thoracic Surgery*, 2007, Ferguson MK (ed).  
(See management algorithm on page 448.)

### Additional Thoracic Readings

- Preoperative Assessment and Therapeutic Options for Patients with Malignant Pleural Mesothelioma, pp 505-516, by Paul S, Neragi-Miandoab S, Jaklitsch MT, edition topic: Mesothelioma, in *Thoracic Surgery Clinics*, Vol. 14, 2004, Ferguson MK (ed).
- Diagnostic Procedures for Pleural Diseases, Chapter 39, pp 1140-1153, by Deslauriers J, Carrier G, Vallieres E, in *Thoracic Surgery, Second Edition*, Pearson FG, Cooper JD, DesLauriers J, Ginsberg RJ, Heibert G, Patterson GA, Urschel HC, (eds), New York, Churchill Livingstone, 2002.

### Critical Care Reading

- [Caring for the Critically Ill Patient, International Study of the Prevalence and Outcomes of Infection in Intensive Care Units](#), by Vincent JL, Rello J, Marshall J, Silva E, Anzueto A, Martin CD, Moreno R, Lipman J, Gomersall C, Sakr Y, Reinhart K, for the EPIC II Group of Investigators, in the *Journal of the American Medical Association*, 2009; 302(21):2323-2329.

### ADDITIONAL RESOURCES

- **Attention program directors, faculty and residents:** If you know of a curriculum topic for which you would like to create a talk, the TSDA Curriculum Committee encourages such contributions. [Instructions for creating and submitting a talk can be found on TSDA.org](#). Submissions prepared according to these instructions will be reviewed by the TSDA Curriculum Committee Editorial Board.
- View the [88-week core curriculum](#). The schedule is currently in Week 21 of 88, Year 1.
- A complete listing of TSDA Weekly Curricula cardiac and thoracic [talks and readings](#) is posted on TSDA.org. Talks and readings reflect the 88-week core curriculum. Content is subject to change.
- View TSDA Weekly Curricula [Readings and References](#).
- View TSDA Weekly Curricula [E-mail Archive](#).
- View [open CT surgery residency positions](#) on TSDA.org.
- View [2010 CT surgery residency interview dates](#) on TSDA.org
- Access the TSDA [Education Universe](#).

### NEWS & INFORMATION

- **New! Roswell Park Cancer Institute Department of Thoracic Surgery** has openings for 3-6 month rotations from July 2010 through June 2011 focused on advanced thoracoscopic and minimally invasive techniques for cardiothoracic residents who desire concentrated training in thoracic oncology surgery. Alternatively, the program also offers a full year non-ACGME accredited fellowship for that same time

period for graduating residents who want additional experience prior to joining a practice. If you or your trainees are interested, please contact Nancy Sikora, Department of Thoracic Surgery, at 716-845-8675 or [nancy.sikora@roswellpark.org](mailto:nancy.sikora@roswellpark.org), or Elizabeth Dexter, MD at [elizabeth.dexter@roswellpark.org](mailto:elizabeth.dexter@roswellpark.org).

- **Attention residents:** The TSRA/TSDA **2010 Cardiothoracic Technology Symposium** will be held April 23-25, 2010 at the University of Cincinnati Center for Surgical Innovation and Kingsgate Marriott Hotel. The CT Symposium consists of didactic sessions, unique hands-on cadaver and animal laboratory experiences, and porcine cardiac wet labs. Didactic components feature practical information from speakers who are acknowledged experts in their respective fields. Registration is free and will open in early 2010. For more information, visit [www.ctsymposium.org](http://www.ctsymposium.org).
- **TSDA General Session** will be held on Saturday, January 23, 2010 from 1:00 p.m. - 4:00 p.m. in Ft. Lauderdale, FL. Visit the [General Sessions section of TSDA.org](#) to view the preliminary meeting agenda.
- **TS-RACS Annual Meeting** will be held on Sunday, January 24, 2010 from 8:00 a.m. - 4:00 p.m. in Ft. Lauderdale, FL. Visit the [Coordinators and Administrators section of TSDA.org](#) to view the preliminary meeting agenda.
- **AATS 2010 Annual Meeting** will be held May 1-5, 2010 in Toronto, Ontario, Canada. Registration and housing is now open. Visit [www.aats.org/annualmeeting](http://www.aats.org/annualmeeting) to learn more.
- The **TSDA In-Training Exam** will be held April 10, 2010 with a back up date of April 17, 2010. Registration materials will be mailed to Program Directors in early 2010.
- **STS 46th Annual Meeting** Registration and Housing Now Open: The [STS 46th Annual Meeting](#) will be held January 25-27, 2010 in Ft. Lauderdale, FL. [Become a fan of the STS 46th Annual Meeting on Facebook](#).
- Please contact Beth Winer at [bwiner@tsda.org](mailto:bwiner@tsda.org) if you have comments or suggestions for the TSDA Weekly Curricula.

*In observance of the holiday season, there will be no TSDA Weekly Curricula Message for the weeks of December 21 or 28. The next message will be sent on January 1 for the week of January 4.*

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