



The ECG in Clinical Medicine

William Brady, MD

Dear Prospective ECG Student,

Greetings and welcome to *The ECG in Clinical Medicine*. I am very excited about this course and hope that you are as well. The two-week course is primarily lecture-based, including the review of ECG interpretation homework, discussion of required readings, and didactic lectures. The course content addresses the primary areas of ECG use in the clinical world. You will note some overlap of topics and likely will hear some material twice, if not three times...this repetition is intentional, emphasizing concepts and materials which are important in this area of clinical medicine.

Successful completion of this course includes **ALL** of the following:

1. Attendance and active involvement at all scheduled lectures/case presentations;
2. Completion of all ECG cases and directed readings; and
3. Submission of the ECG PowerPoint presentation addressing a topic of your choice (i.e., at least 20 slides but no more than 40 slides).

I am the course director (924-8485; wb4z@virginia.edu). Additional EM and non-EM faculty also assist in course instruction. I will provide you a copy of the textbook (Mattu, Tabas, & Brady, *Electrocardiography in Emergency, Acute, and Critical Care*); it is yours to keep. This book will serve as the course textbook and has required readings. The books will be distributed on Day 1 of the course.

Listed below is a sample course outline. Course content varies but always includes the core content of required ECG knowledge for a clinician.

Day 1

TIME – 8:00am – 11:00am

LOCATION – Pinn Hall 1014

- Course Introduction with Book Distribution – at 8:15am
- The ECG in ACS, Part I (Brady) – at 8:30am
- The ECG in ACS, Part II (Brady) – at 9am
- The ECG in ACS, Part III (Brady) – at 10am
- Readings: pp 91-128

Day 2

TIME – 8:00am – 11:00am

LOCATION – Pinn Hall 1014

- ECG Review – ECGs 1-8 (Glass) – at 8am
- Bradycardia & AV Block (Glass) – at 9am
- Intraventricular Block (Glass) – at 10am
- Readings: pp 15-52



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Day 3

TIME – 8:00am – 11:00am

LOCATION – NOTE LOCATION CHANGE ***McKim Hall, BIMS 1023, across from Sandridge Auditorium*******

- ECG Review – ECGs 9-17 (Brady) – at 8am
- Narrow QRS Complex Tachycardia (Brady) – at 9am
- Wide Complex Tachycardia (Brady) – at 10am
- Readings: pp 53-90

Day 4

TIME – 8:00am – 11:00am

LOCATION – Pinn Hall 1014

- The ECG and Implanted Devices (Brady) -- at 8am
- WPW Syndrome (Brady) ECG Review – at 9am
- ECG Review – ECGs 18-26 (Lounsbury) – at 10am
- Readings: pp 187-198 & 213-236

Day 5

TIME – 7:00am – 11:00am

LOCATION – Pinn Hall 1014

- ECG Review - ECGs 27-35 (Lounsbury) – at 7am
- The ECG in ACS – Patterns Confounding AMI Diagnosis (Lounsbury) – at 8am
- Sudden Death Syndromes & Other ECG Presentations (Lounsbury) – at 9am
- ECG Case Presentations (Lounsbury) – at 10am
- Readings: pp 199-212 & 237-246

Day 6

TIME – 7:00am – 11:00am

LOCATION – Pinn Hall 1014

- ECG Review - ECGs 36-44 (Brady) – at 7am
- The ECG in ACS - High-risk ECG Presentations (Glass) – at 8am
- The ECG in ACS – STEMI Mimics (Glass) – at 9am
- ECG Cases in Toxicology (Charlton) – at 10am
- Readings: pp 129-186 & 265-280

Day

TIME – 7:00am – 11:00am

LOCATION – Pinn Hall 1014

- ECG Review 45-53 (Lounsbury) – at 7am
- ECG in Cardiac Arrest (Brady) – at 8am
- The ECG in ACS - Diagnosing AMI with LBBB (Brady) – at 9am
- The Use of the ECG by the Anesthesiologist (Bechtel) – at 10am
- Readings: pp 247-264

Day 8

TIME – 7:00am – 12:00pm

LOCATION – Pinn Hall 1014

- ECG Review - ECGs 54-64 (Glass) – at 7am



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- Top 10 ECG Pearls (Glass) – at 8am
- ECG Jeopardy (Brady / Lounsbury / Glass) – at 9am
- ECG Jeopardy (Brady / Lounsbury / Glass) – at 10am
- Readings: pp 281-296

Day 9

TIME – 8:00am – 11:00am

LOCATION – Pinn Hall 1014

- ECG Review - ECGs 56-64 (Brady) – at 8am
- ECG FINAL EXAM (Brady) – at 9am
- Complete ECG Project & Readings

Day 10: Friday March 15

- No Class...MATCH DAY...GOOD LUCK!

Please let me (William Brady, wb4z@virginia.edu) know if you have any questions.

Sincerely yours,



William Brady, MD

Professor of Emergency Medicine, Medicine, & Nursing