



The ECG in Clinical Medicine

William Brady, MD

Dear ECG in Clinical Medicine Course Students,

Greetings and welcome to the best, most awesome, incredibly useful rotation at the University of Virginia School of Medicine, ***The ECG in Clinical Medicine***. I am very excited about this course and hope that you are as well - what better way to spend the early Fall season but discussing the ECG!

The ECG in Clinical Medicine course will start on **Monday, March 18 at 8:00 am in MR6-G501**; please arrive ON TIME so that we can introduce one another, discuss the logistics, distribute learning materials, answer process questions, etc.....and get started.

I am the course director (924-8485 and wb4z@virginia.edu), Travis Harris (982-1800 and TTH7D@virginia.edu) is the course coordinator, and Joan Cichon (243-9901 and JLC2F@virginia.edu) is the computer / IT coordinator.

Week #1 (Mar 18-22) will be lecture-based, including the review of ECG interpretation homework, discussion of required readings, and didactic lectures.

Week #2 (Mar 25-29) will be lecture-based, including the review of ECG interpretation homework, discussion of required readings, and didactic lectures; the last several days will also include the presentation of unknown ECG cases in an interactive setting.

At the end of Week #2, you will be required to submit a BRIEF (i.e., at least 20 slides but no more than 60 slides) PowerPoint presentation of an ECG topic of your choice - this presentation is **due to me by 5pm on Friday March 29**. If the file is less than 5 MB in size, send it via email to me. If it is larger than 5 MB (which is quite likely), you can submit either via disc to my office (Mr. Travis Harris in the second floor of the MSB; Emergency Medicine office suite adjacent to the link) or via a file transfer program (e.g. www.YouSendIt.com) to me.

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

1. Attendance at all scheduled lectures (please arrange for absences in advance);
2. Completion of all internet-based ECG cases;
3. Completion of all directed readings; and
4. Submission of the ECG Powerpoint presentation to me by 5 pm on Friday Oct 19
5. Enjoying yourself in an educational sense while you learn about something very important



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The content for Weeks #1 and #2 is as follows:

Mar 18 – Day 1

TIME – 0800 to 1200

LOCATION – MR6-G501

Course Introduction
ECG in Clinical Medicine (Brady)
The ECG in ACS, Part I (Brady)
The ECG in ACS, Part II (Brady)
Readings: pp 1-38, 85-91, 115-121

Mar 19 -- Day 2

TIME – 1200 to 1600

LOCATION – MR6-G501

ECG Review
Bradycardia & AV Block (Brady)
Intraventricular Block (Brady)
Readings: pp 19-23, 267-275, 461-468

Mar 20 -- Day 3

TIME – 0800 to 1200

LOCATION – MR4-3102

ECG Review
Bradycardia & AV Block (Brady)
Intraventricular Block (Brady)
Readings: pp 19-23, 267-275, 461-468

Mar 21 -- Day 4

TIME – 0800 to 1200

LOCATION – MR4-3102

ECG Review
The ECG in the Poisoned Patient (Brady)
Narrow QRS Complex Tachycardia (Brady)
Readings: pp 244-250, 295-302, 395-412, 444-451

Mar 22 -- Day 5

TIME – 0800 to 1200

LOCATION – MR6-G501

ECG Review
Wide Complex Tachycardia, Part I (Brady)
Wide QRS Complex Tachycardia, Part II (Brady)
Readings: pp 251-266, 452-460



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Mar 25 – Day 6

TIME – 0900 to 1300

LOCATION – JHCC- G1&G2 (ground floor of conference center)

ECG Review

Pacemakers (Brady)

ICDs and LVADs (Brady)

Readings: pp 284-294

Mar 26 – Day 7

TIME – 0900 to 1300

LOCATION -- JHCC- G1&G2 (ground floor of conference center)

ECG Review

Pediatric ECG (Brady)

Readings: pp 12-18

Mar 27 – Day 8

TIME – 0900 – 1300

LOCATION -- JHCC- G1&G2 (ground floor of conference center)

ECG Review

ECG Case Studies – The Adult with Chest Pain

ECG Case Studies – The Patient in Cardiac Arrest

Readings: 41-82

Mar 28 – Day 9

TIME – 0900 to 1200

LOCATION – JHCC- G1&G2 (ground floor of conference center)

ECG Review

ECG Case Studies – The Patient with an Abnormal Pulse Rate

ECG Case Studies – The Patient with Syncope

Readings: 317-394

Mar 29 – Day 10

TIME – 0900 to 1200

LOCATION -- JHCC- G1&G2 (ground floor of conference center)

ECG Review

ECG Case Studies – The Patient that Walks Through the Door

Readings: none



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I have decided to give you a copy of the textbook (Brady & Truwit, Critical Decisions in Electrocardiography) as an early graduation gift. This book will serve as the course textbook and has required readings listed on Days 1 to 9. The books will be distributed on prior to class starting; please see either Ms. Donna Ferneyhough or Ms. Penny Carlisle in **Room 2262** of the **Multistory Building** for your book (office suite immediately adjacent to the link on the second floor of the MSB). Please pick up the book the week **PRIOR** to class start.

You will be contacted by Joan Cichon (JLC2F@hscmail.mcc.virginia.edu). She will assist you with internet access, passwords, etc for the internet-based ECG cases. These cases will present an ECG with clinical information; you will be asked to interpret the ECG and can check your reading in each case. We will monitor your use of this internet ECG file so please complete each ECG as assigned. We will review the interpretation of each ECG in class the following day. You can complete them using UVa computers or your own PC - any where from "here to Timbuktu," in the words of a respected UVa educator.

Please let me know if you have any questions. I look forward to seeing you all on March 18 and working with you throughout the course. And the BEST OF LUCK ON MARCH 15!!!



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