INTRODUCTION

EKG Interpretation Lecture Series

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Dr. Mark A. Kossick received his Doctor of Nursing Science degree in 2003 from the University of Tennessee Health Science Center - Memphis, College of Nursing. He completed his dissertation research in the electrophysiology laboratory at the University of Alabama at Birmingham (UAB); which involved the development of a new modified chest lead ($MAC1_L$). Dr. Kossick finished his anesthesia education in 1984 at Hamot Medical Center, Erie, Pennsylvania/Edinboro University, Edinboro, Pennsylvania. Over the past 32 years he has been on faculty at several universities (University of Kansas, UAB, University of Maryland, Union University, and Western Carolina University). For 35 years he has lectured extensively across the country on EKG interpretation, including the diagnosis and management of ischemia, injury, infarction, arrhythmias, EKG lead selection and configuration (including the use of modified chest leads), as well as axis deviation, bundle branch blocks, and fascicular blocks. His lectures have addressed eclectic audiences (anesthesiologists, hospitalists, emergency department physicians, cardiologists, physician assistants, advanced practice nurses working in a variety of settings [anesthesia, intensive care units, nurse practitioners]) at state, national, and international meetings, medical centers, as well as students (undergraduate, graduate) and faculty as a visiting professor at other universities. He has lectured in the United Kingdom, Austria, as well as Mexico, Canada, and the Netherlands.

Dr. Kossick has also written a textbook and handbook on electrocardiography, is an author of a chapter in all seven editions of the textbook, Nurse Anesthesia (Clinical Monitoring I: Cardiovascular System) and authored the antiarrhythmic chapter in the textbook, Pharmacology for Nurse Anesthesiology.

In the past he has participated in medical mission work in Tatoxcac, Mexico, served as 1) a member of the AANA Council on Recertification of Nurse Anesthetists, 2) chair of the AANA Education Committee, 3) an on-site reviewer for the Council on Accreditation of Nurse Anesthesia Educational Programs, 4) a reviewer and editorial committee member for the AANA Journal, 5) a member of the AANA Practice Committee, 6) a member of the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA) Continued Professional Certification - Core Module Recognition Panel for Applied Clinical Pharmacology, 7) an advanced education nursing grant reviewer for the Health Resources and Services Administration (HRSA) Bureau of Health Professions, 8) member of the AANA Foundation Research Committee, 9) a member of Union University's IRB Committee, WCU's IRB Committee as well as Mission Hospital's Nursing Research Council, and 10) the Nurse Anesthesia Program Director at the University of Maryland and Union University in Jackson, TN. He was also honored for his scholarly accomplishments and was appointed in 2008 as a Senior Fellow by the president of Union University in Jackson, Tennessee. Dr. Kossick is the father of three daughters and has six grandchildren. He currently resides with his wife in Dunnellon, Florida.

Acknowledgment

It has only been through the love and support of my wife Beckie that I have been able to develop and present this lecture series to national and international audiences.

I would also like to acknowledge my Lord and Savior, Jesus Christ for the "gift" many have told me I possess in teaching electrocardiography - *"In all your ways acknowledge Him, and He will make your paths straight"* Proverbs 3:6.

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Introduction to EKG Lecture Content

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- *Brief overview*
  - ✓ *Thirty-seven years in academia (professor, senior fellow)*
  - ✓ *Research Doctorate, Clinical Practice*
- *Content Development*
  - ✓ *emphasis on being "practical"*
- *Audience participation/questions are encouraged- an opportunity to do so is provided at the end of each 1 hr presentation*

This EKG lecture content is applicable to a diverse group of healthcare personnel who interface with patients admitted to a variety of healthcare settings (medical centers [ED, ICU, OR, PACU, Cath labs], surgery centers, urgent care facilities, and healthcare provider offices)

- **Physicians**
- **Advanced Practice Nurses**
- **Physician Assistants**
- **Residents, Students**
- **Attorneys**

Specialties

- Emergency Department Personnel
- Primary Care Physicians
- Hospitalists
- Anesthesia Personnel
- Cardiologists
- Intensive Care Nurses
- Family Nurse Practitioners
- Post Anesthesia Care Nurses
- Telemetry Nurses
- Educators

And for healthcare personnel responsible for assessing EKG data it is *essential* they *possess a working knowledge o*f:

1. The EKG lead system, dipole concept
2. The correct anatomical placement of EKG electrodes
3. How to configure EKG monitoring equipment
4. How to select the optimal EKG leads for continuous monitoring
5. Diagnostic EKG criteria for various abnormalities (myocardial ischemia, injury, infarction, conduction abnormalities)
6. Correlating EKG findings with the patient's "clinical picture"

EKG Lecture Series Itinerary

- *Cardinal Concepts for Accurate EKG Interpretation*
  - *Part I & Part II*
- *Evidence-Based Guidelines for Diagnosing T wave and ST segment Changes*
- *Decision Algorithm for EKG Lead Selection Including True Chest Leads vs Modified Chest Leads*
- *Diagnostic Criteria for Myocardial Infarction*
- *Practice EKG Interpretation Part I*
- *Diagnostic Criteria and Clinical Implications for Axis Deviation, Bundle Branch Blocks, and Fascicular Blocks*
- *Practice EKG Interpretation Part II*

Disclosure

Neither I nor any members of my immediate family have a financial interest/arrangement or affiliation that could be perceived as a real or apparent conflict of interest related to the content or supporters of these two presentations.

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