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MEDICAL HISTORY

# CME Podcasts

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26

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\$100

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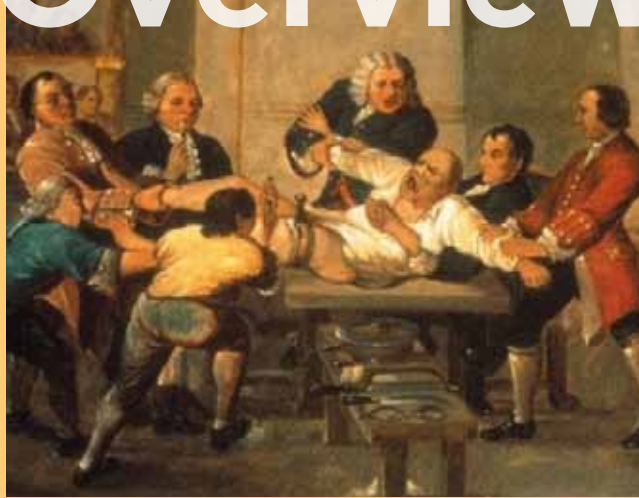
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**CME** MEDICAL HISTORY **Podcasts**

# Overview

**Presenter:** Philip A. Mackowiak, MD, Carolyn Frenkil and Selvin Passen History of Medicine Scholar-in-Residence, University of Maryland School of Medicine



This course traces 40 thousand years of medical history. Through it you will learn how we happen to know what we know in medicine, nursing, dentistry and other forms of healthcare, why we do what we do, and where we are likely to be in the future. It will show you why modern medical knowledge is neither universal nor timeless, but tied to particular cultural and temporal moments. During the course, the transience of medical truths emerges, whereby certain concepts come into being and attain the status of scientific facts, only to be unmade as facts, frequently with greater difficulty than they were made.

**Duration: 11 minutes 56 seconds**



## Andrew Wyeth, Christina Olson and the Art of Medicine

**Presenter: Mackowiak**

The bulk of the training of physicians, nurses, dentists and other healthcare providers focuses on the science of the disciplines. This presentation considers an equally important aspect of clinical care, the art of caring for patients when medical science lacks the capacity to either comfort or cure.

**Duration: 21 minutes 24 seconds**



## Medicine from its Origins to Vesalius

**Presenter:** Richard Colgan, MD, Professor and Vice Chair, Department of Family and Community Medicine, University of Maryland School of Medicine

Advice to the healer is offered by looking at lessons taught by those from its earliest recorded days to the time of Vesalius. This presentation looks to learn from the Buddha, Imhotep, the Greeks, as well as luminaries from Chinese Medicine and those who practiced from the dark to the Middle Ages.

**Duration:** 38 minutes 22 seconds



## Medicine from Vesalius to Modern Day

**Presenter:** Colgan

We learn that Paracelsus, like other medical educators throughout history, such as Hippocrates, Osler and Nightingale advocated for the skill of careful observation. The contributions of Pare, Lister, Long and Fleming are highlighted amongst others as infectious diseases were shown to be responsible for countless deaths in the world. A look at the genetic basis of diseases is introduced while concluding with the present day problem of how do we address the fact that despite great advancements through the ages, too many people continue to suffer from health care disparities.

**Duration:** 45 minutes 4 seconds



## Diagnosing Disease

### The Not So Radical Evolution of the Clinical Evaluation

**Presenter:** Mackowiak

Shocking as it may seem, little has changed, at least in the initial evaluation of patients, for more than 4,000 years. We know this, because the principles underlying today's concept of a proper medical history and physical examination are clearly articulated in documents like the Ebers papyrus of 1550 B.C.E. This podcast traces the glacial pace of ancillary diagnostic advances since that time.

**Duration:** 29 minutes 57 seconds



## Therapeutics

### From Burr Holes to ICUs

**Presenter:** Mackowiak

Prior to the modern era, because clinicians lacked knowledge of the mechanisms responsible for human diseases, they had little to offer seriously ill patients other than crude attempts to assist the healing power of nature and compassionate attention. This presentation traces the long and tortuous path from the earliest treatments involving rituals, religious interventions, bleeding, cupping, moxibustion, etc. to the current mixed blessings of modern pharmaceuticals and advanced life support.

**Duration:** 26 minutes 20 seconds





## Surgery

### Cutting for Cure

**Presenter:** Mackowiak

Although surgery's history is nearly as old as the human species, except for trephination and amputations, the practice as we know it today did not exist before the 19th century. This presentation considers the many advances outside of the operating room that enabled surgeons to perform today's complicated procedures.

**Duration:** 36 minutes 42 seconds



## Pharmaceuticals

### Both a Blessing and a Curse

**Presenter:** Mackowiak

Tremendous strides have been made in drug development since the gathering of a few roots and herbs by our ancestors in search of cures for what ails us. These strides, as you will see, have been a blessing as well as a curse.

**Duration:** 30 minutes 4 seconds



*Benefits Supervisor Sleeping*, oil on canvas, 1995 C.E., by Lucian Freud, private collection, Europe

## Nutrition

### Historical Evidence Preserved in Art

**Presenter:** Mackowiak

Medical students receive shockingly little instruction in nutrition, much less the history of how we came to know what little we do about this important subject. Nursing students get a bit more, but not nearly enough. This presentation traces the history of concepts of nutrition through works of art devoted to the subject.

**Duration:** 31 minutes 11 seconds



## Women in Medicine

**Presenter:** Preeti John, MD,  
Adjunct Assistant Professor,  
Department of Surgery,  
University of Maryland School  
of Medicine

The vast history of women in medicine is traced in this presentation through the lives, trials and legacies of female physicians, beginning in ancient times, and through the Middle Ages, to the present.

**Duration:** 37 minute 41 seconds



## Florence Nightingale and the History of Nursing

**Presenter:** Mackowiak

Although Nightingale is credited with founding modern nursing, the discipline has a history likely as old as the human species. Nightingale's achievements were made possible by those of forerunners such as Phoebe, Rufaidah, St. Francis, St. Vincent DePaul, and Elizabeth of Hungary.

**Duration:** 35 minutes 51 seconds



## Military Medicine

**Presenter:** Edward McDevitt, MD, former Chief of Orthopedics and Sports Medicine, United States Naval Academy

Throughout history, wars have acted as giant clinical trials in which medical theories and interventions have been tested, initially by trial and error, and in the modern era by scientific methods. As discussed in this presentation, these investigations have produced advances in sanitary engineering, wound care, vaccine development, trauma and emergency care, reconstructive surgery, and robotics that have benefitted the general public as much as the military.

**Duration:** 60 minutes 10 seconds



## Psychiatry

**Presenter:** William T. Carpenter, MD, Professor, Department of Psychiatry, University of Maryland School of Medicine

Psychiatry's history is an exceedingly complex one, articulated in arcane terms, the meaning of which has changed over time and been distorted by misinterpretation, retrospective judgement and generalization. The discipline has been disparaged for lagging behind the rest of medicine in understanding its disorders and developing effective treatments. In psychiatry's defense, it might be argued that the disorders of the rest of medicine are not nearly as complicated as those of mental health, because the brain is simultaneously the least accessible and most complex of organs.

**Duration:** 39 minutes 32 seconds



## Genetics

### Gregor Mendel and the Brief History of Clinical Genetics

**Presenter:** Mackowiak

The history of clinical genetics covers little more than 200 years. However, since the discovery of the double helical structure of DNA in the 1950s, progress in the discipline has been no less than astonishing. The determination of the nucleic acid sequence of the human genome has enlarged substantially both our knowledge of the human condition and our capacity to improve it with increasingly effective treatments. But as noted in this presentation, we are not likely to ever fully understand everything there is to know about the individual or perfect the health of humans through gene editing.

**Duration:** 32 minutes 55 seconds





## Public Health

**Presenter:** Daniel Morgan, MD, Professor, Department of Epidemiology & Public Health, University of Maryland School of Medicine

Historically, attention to the provision of clean water, proper sanitation, and a healthy environment has had a greater impact on life expectancy, disability, and quality of life than medical care. This presentation explores health and the factors that impact life expectancy including environmental factors, infections, the advent of immunizations, and addiction.

**Duration:** 25 minutes 58 seconds



## Dentistry

### History of Dentistry: From Ancient Man to the mid-20th Century

**Presenter:** Scott D.  
**Swank, DDS**, Clinical  
Assistant Professor,  
University of Maryland  
School of Dentistry

Today we think of dentistry as a medical profession unto itself; utilizing highly sophisticated technology to maintain and rehabilitate the oral-maxillofacial complex. This presentation traces dentistry's development from ancient times through the early 20th century. The interrelationship between dentistry, medicine and science will be emphasized in order to fully appreciate dentistry's contributions to mankind.

**Duration:** 34 minutes 3 seconds



## “Plague”

### A History of Its Myriad Causes and Effects

**Presenter:** Mackowiak

Most people associate the term “plague” with the Black Death or bubonic plague, which ravaged Europe during the 14th century C.E. However, actually there have been legions of plagues (or pandemics) throughout history beginning with the 5th century B.C.E. Plague of Athens and culminating in our current COVID-19 pandemic. This presentation considers the causes and consequences of six of history’s most devastating plagues.

**Duration:** 29 minutes 19 seconds



## Death and Dying

**Presenter:** Mackowiak

Henry Fielding, the 18th century author of *Tom Jones*, once said: "It's not death but dying which is terrible." Seems logical. However, not necessarily true, given the fact that although we know a great deal about dying, the same cannot be said about death. Nevertheless, one society after another has speculated endlessly as to what happens after one is dead. This presentation examines the nature and consequences of such speculation and the efforts to delay death as long as possible.

**Duration:** 19 minutes 50 seconds

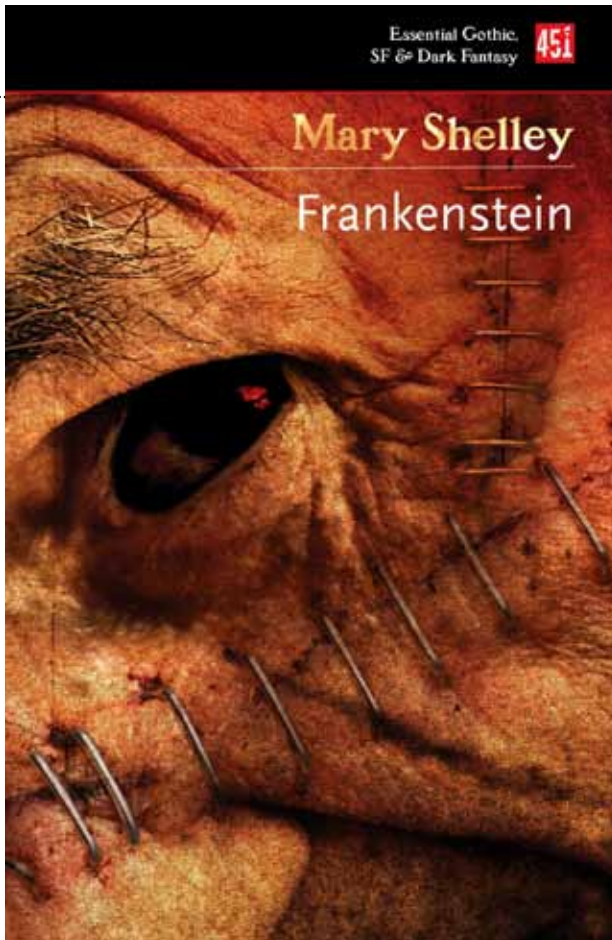


## Forensic Medicine

**Presenter:** Victor Weedn, MD,  
Chief Medical Examiner for  
the State of Maryland

The first recorded forensic autopsy was performed by the physician Antistius on Julius Caesar in 44 BCE. Antistius determined that of the 23 stab wounds suffered by Caesar, only the second one in the breast was lethal. Although this report speaks to the ancient roots of forensic medicine, as discussed in this presentation, the discipline's evolution has been so slow that, paradoxically, it can be considered a new specialty of medicine.

**Duration:** 25 minutes 25 seconds



## Mary Shelley, Frankenstein and the Dark Side of Medical Science

**Presenter:** Mackowiak

*Frankenstein* is a social commentary, highly critical of society as well as the Church. However its principal theme concerns the prototypic scientist, his character, his motives, his sense of gratification and also the unanticipated consequences of his work. This presentation approaches Shelley's story as a cautionary tale, which even today, speaks to the promise along with the peril of scientific advances.

**Duration:** 27 minutes 59 seconds



## Quackery

**Presenter: Robert Greenspan, MD,**

Nephrologist and owner of one of the finest collections of medical artifacts in the country

The term “quack,” derived from quacksalver, is an archaic Dutch term for a boisterous “hawker of salve.” This presentation illustrates the means by which such persons have hawked questionable diagnoses and treatments throughout history, especially for serious diseases against which traditional medicine has limited efficacy.

**Duration: 21 minutes 43 seconds**



## Mandating Morality The History of [Bio] Medical Ethics

**Presenter:** Mackowiak

Histories have to begin somewhere, though all too often, we don't know precisely when or where. This is very much the case with medical (or biomedical) ethics. This presentation attempts to trace the evolution of the concept from documents produced by some to the earliest civilization to the present, suggesting that healthcare providers have always been motivated by basic moral principles similar to our own.

**Duration:** 23 minutes 19 seconds





## Medical Instruments and Devices

**Presenter:** Ryan Katz, MD, FACS, Plastic Surgeon, Hand Surgeon and Core Faculty, Curtis National Hand Center in Baltimore

Bioengineering has replaced trial-and-error in developing today's instruments and devices. Nevertheless, as discussed in this presentation, history shows that we owe much, in many cases more than we realize, to our predecessors for the marvelous instruments and devices we have at our disposal today.

**Duration:** 20 minutes 25 seconds



## Carl Wunderlich

### 98.6°F and the History of Monitoring Body Temperature

**Presenter:** Mackowiak

For over 150 years, the thermometer has been used clinically to ferret out true disease from the many aches and minor perturbations of otherwise healthy existence. Even so, few but the most knowledgeable medical historians could identify the origin of the thermometer or its clinical use. This presentation explores these and many other questions related to the definition of fever, and the origin and the tenacity of the notion that 98.6°F (37°C) is the normal temperature.

**Duration:** 31 minutes 46 seconds



## Medical Eponyms

**Presenter:** Robert P. Ferguson, MD, Professor, Department of Medicine, University of Maryland School of Medicine

The naming of diseases, procedures and instruments after certain persons has been a long tradition in medicine. Although the use of such eponyms has recently been discouraged, many appear to be here to stay. This presentation reviews the origins of several prominent eponyms and the controversies surrounding the persons honored by them.

**Duration:** 18 minutes 48 seconds



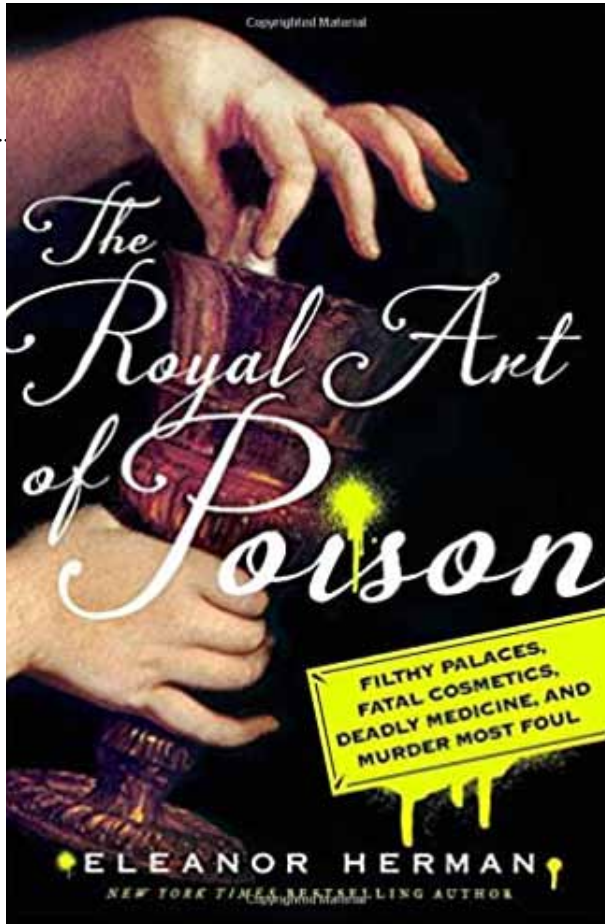
## Formalizing Medical Education in America

### And Maryland's Role in its Development

**Presenter:** Larry Pitrof, Executive Director, Medical Alumni Association of the University of Maryland

In order to regulate the practice of medicine in the United States it became apparent that medical education needed to be standardized. This presentation traces the struggles of the University of Maryland—America's fifth oldest medical school—as it grappled with its reputation as a proprietary medical school and navigated reform, primarily after release of the Flexner Report in 1910.

**Duration:** 28 minutes 21 seconds



## Sickness and Medicine at the Royal European Courts

**Presenter:** Eleanor Herman, *New York Times* bestselling author

In this presentation, we learn the extremes to which the royal families of renaissance Europe went in trying to protect themselves from being poisoned, while unknowingly poisoning themselves daily with their cosmetics, medications and filthy living conditions.

**Duration:** 42 minutes 47 seconds