And the Beat Goes On...

M. Thomas Stillman MD, FACP
Hennepin County Medical Center
Objectives

1.) Identify historic cardiology greats who have called our attention to auscultation findings associated with clinical conditions

2.) Recognize variability of cardiac auscultation findings in assessing the presence and changing aspects of valvular heart disease

3.) Remember and enjoy cardiac auscultation by its similarity to musical compositions
“Everyone recognizes that the stethoscope belongs to a physician. Use it to establish this contractual relationship. Patients gain confidence when an experienced physician places a stethoscope on his or her patient’s chest and listens with intense concentration. This art of auscultation can be clinically relevant while helping to cement a powerful bond between patient and physician.”

Tom Stillman
Med School Faculty Address
2010
The art of auscultation is virtually synomynous with Dr. Harvey
“If you don’t know where you are going, you won’t know what road to take” - Dr. Procter Harvey
WHEN I WAS AN INTERN, I WOULD TAKE OVERNIGHT CALL EVERY THREE OR FOUR NIGHTS. SOME NIGHTS WERE ROUTINE...

...OTHERS WERE NOT.

“MISSED IT” WRITTEN BY: MICHAEL J. GREEN, MD, MS • ILLUSTRATED BY: RAY RIECK

THIS WILL BE EASY--A 54 YEAR-OLD WITH SHORTNESS OF BREATH AND WHEEZING. THE NEBULIZER HELPED SOME, BUT HE’S STILL STRUGGLING.

NO BIG DEAL -- MORE NEBS, START SOME ANTIBIOTICS AND STEROIDS AND HOOK HIM UP TO OXYGEN.
I SEE THE PATIENT.

HEY, FRED... WHAT ABOUT THAT MURMUR?

NO WORRIES-- IT'S OLD, DOCUMENTED IN THE CHART.
WE WORK ON HIM FOR 30 MINUTES. DO EVERYTHING... CHEST COMPRESSIONS, SHOCKS, IVS...

HE’S...DEAD!
LATER THAT AFTERNOON, A SENIOR PHYSICIAN STOPS ME...

HEAR THE AUTOPSY RESULTS, YET?

PINPOINT AORTIC STENOSIS. SURGERY MIGHT HAVE SAVED HIM.

20 YEARS LATER, I'M STILL HAUNTED BY THE SMELL OF HIS FEAR AND THE TERROR IN HIS EYES. SOMETIMES, WHEN IT'S QUIET, I CAN STILL HEAR THE FAINT RUMBLE OF THAT MURMUR.

THEN IT SINKS IN... THE MURMUR I IGNORED WAS THE ULTIMATE CLUE.

I WONDER WHAT I'LL MISS NEXT TIME.
Dr. George Frederic Still
1868-1941
SYSTOLIC EJECTION MURMERS

INNOCENT  GUILTY
ATRIAL SEPTAL DEFECT

Innocent Sounding Systolic Ejection Murmur that is Guilty Because of a Fixed Splitting of the Second Heart Sound
LISTENING TO THE HEART IS LIKE LISTENING TO AN ORCHESTRA
Aortic Stenosis

Mendelssohn’s Symphony # 4 in A major, Italian
Dr. John Barlow
1924 – 2008
Mitral Valve Prolapse with Mitral Insufficiency
Mozart Symphony # 40 in G minor
Dr. Austin Flint
1812-1886
EARLY SHORT DIASTOIC MURMUR

ACUTE AORTIC INSUFFICIENCY
EARLY TO LATE DIASTOLIC MURMUR

HOLODIASTOLIC

AORTIC INSUFFICIENCY
Echo Aortic Insufficiency: Basis for Austin Flint Murmur
Aortic Insufficiency

Delib’s ballet, Coppelia
Dr. Carey F. Coombs
1879-1932

RHEUMATIC HEART DISEASE

BY
CAREY F. COOMBS,
M.D., F.R.C.P. Lond.

WITH AN INTRODUCTION BY
F. J. POYNTON,
M.D., F.R.C.P. Lond.

WITH NUMEROUS ORIGINAL PLATES
AND ILLUSTRATIONS IN THE TEXT.

NEW YORK:
WILLIAM WOOD AND COMPANY
MDCCCLXXIV
ACUTE RHEUMATIC FEVER
MID DIASTOLIC MURMUR
Kenyan Rheumatic Heart Disease Project
Kenyan Rheumatic Heart Disease Project
EARLY RHEUMATIC HEART DISEASE
HOLOSYSTOLIC MURMUR
MITRAL INSUFFICIENCY
Kenyan student found to have both Mitral and Aortic Insufficiency

Placed on prophylactic penicillin.
Usual result over time.
Mitral Valve Stenosis

What to dooooooooo What to dooooooooo What to dooooooooo
Mitral Stenosis

Delib’s ballet, Coppelia
Dr George Alexander Gibson
1875-1958
Gibson’s continuous murmur of a patent ductus arteriosus
The murmur made the difference!

A patient with an aortic aneurism to right atrium fistula
Listening to the Heart May Be a Tip-off as to What’s Happening in the Lungs
Pulmonary Insufficiency
Graham Steell Murmur

Early pulmonary systolic ejection click
Persistant splitting 2\textsuperscript{nd} heart sound
Graham Steell murmur
Example: pulmonary embolis
Pulmonary Embolism with Pulmonary Insufficiency

Rossini: William Tell Overture