

Introduction to Medical Illustration PLME 0400

Francois Luks

Disclaimers:

I am not real (medical) illustrator

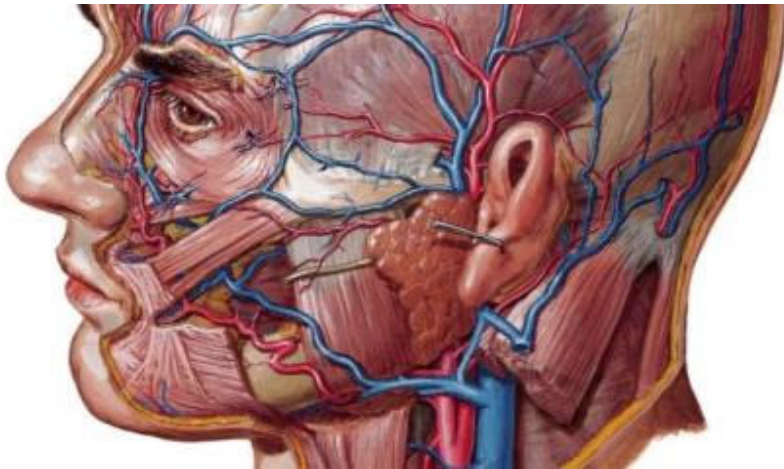
But I *am* a real doctor

I will “accidentally” use my own (medical) illustrations to
“demonstrate” concepts – and not at all to “show off”

PLME 0400

Introduction to Medical Illustration

- Goals of the course
 - Most physicians draw



©Frank Netter, MD



©2000 Springer-Verlag

(Stone CA. Can a picture really paint a thousand words?)

PLME 0400

Introduction to Medical Illustration

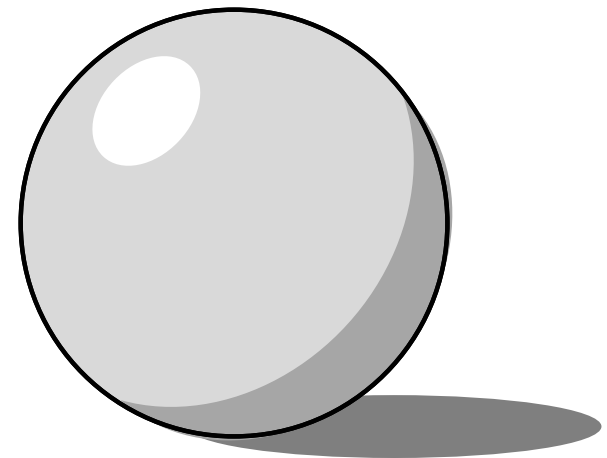
- Goals of the course
 - *Why* do we draw?
- To explain
- To teach
- TO COMMUNICATE



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 - Basics of drawing: Light source



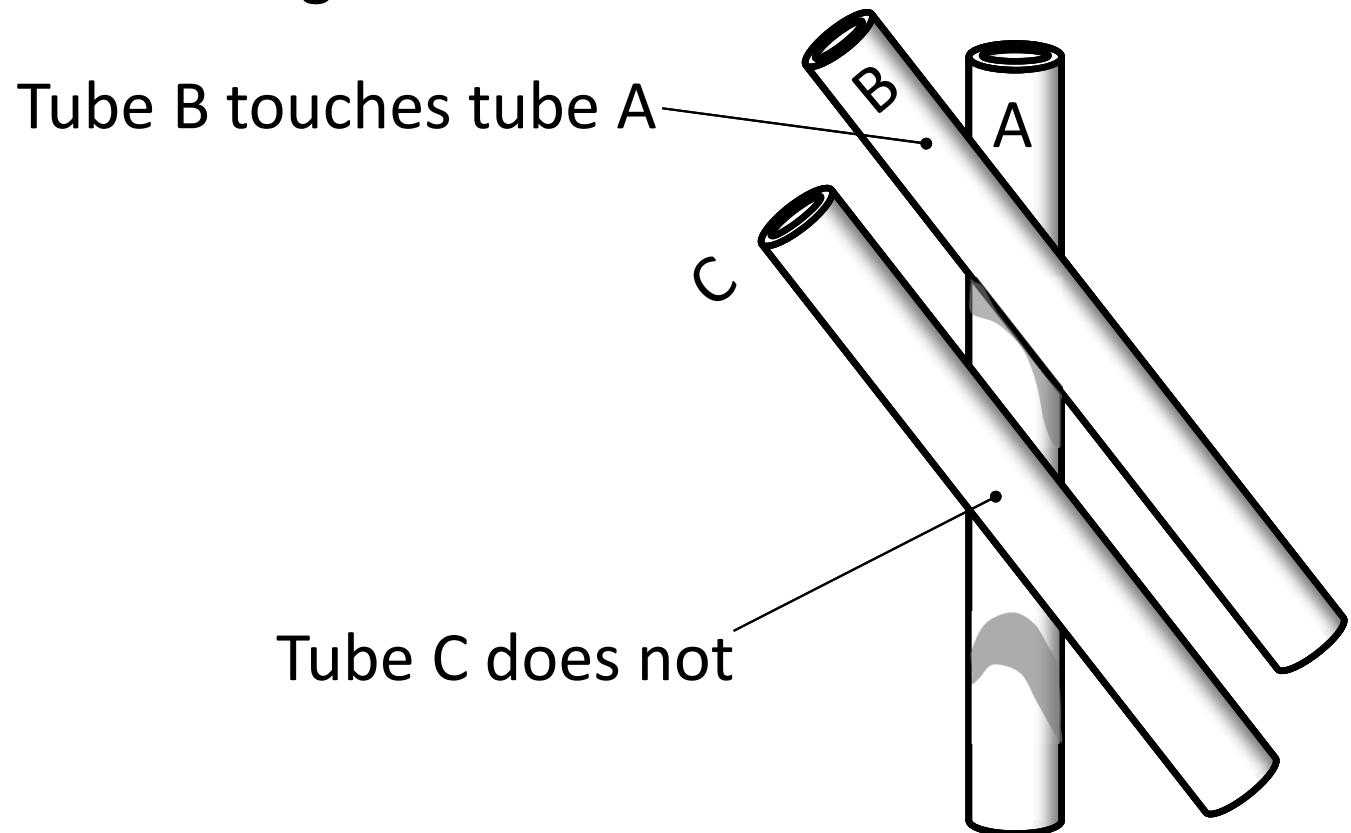
PLME 0400

Introduction to Medical Illustration

- Goals of the course

1. Become better communicators

- Basics of drawing: Shadows



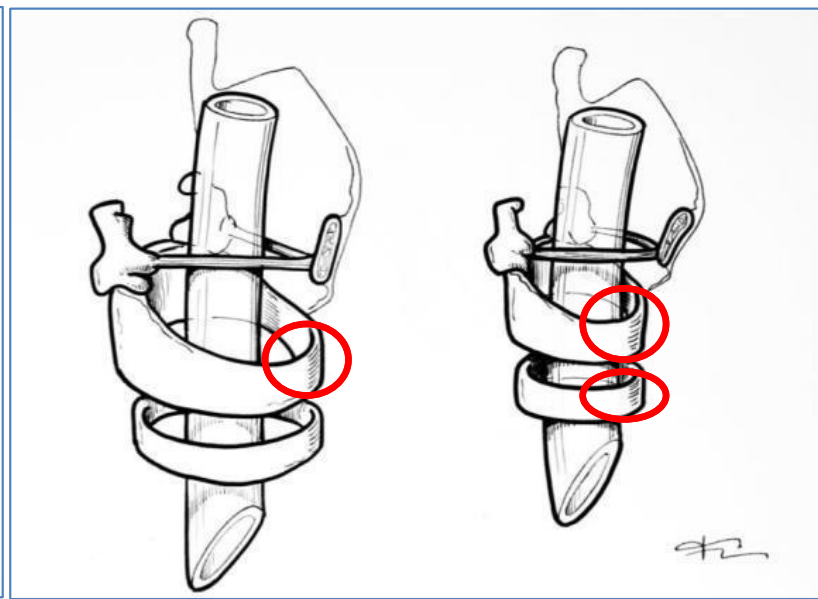
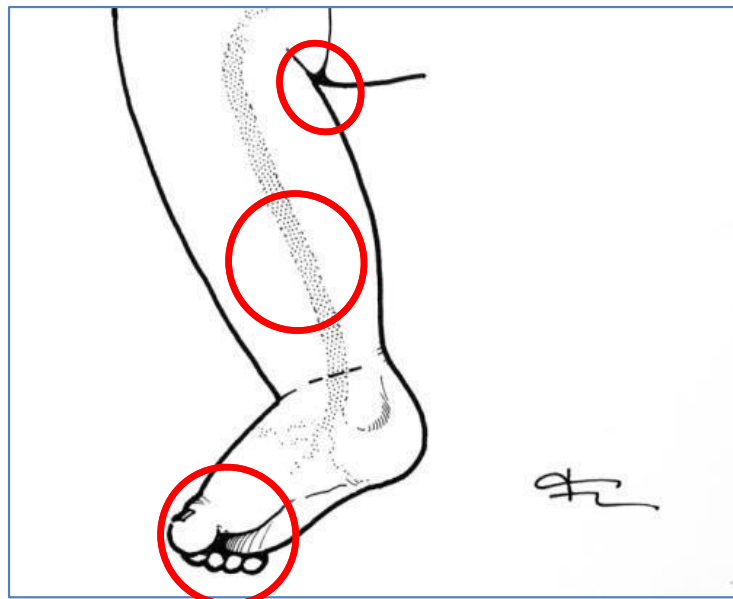
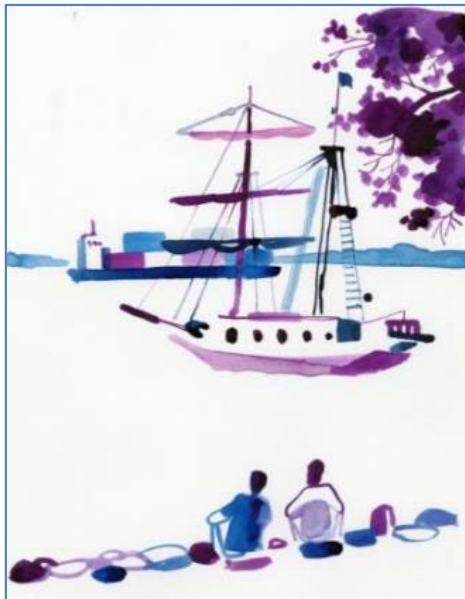
PLME 0400

Introduction to Medical Illustration

- Goals of the course

1. Become better communicators

- Basics of drawing White space and lines



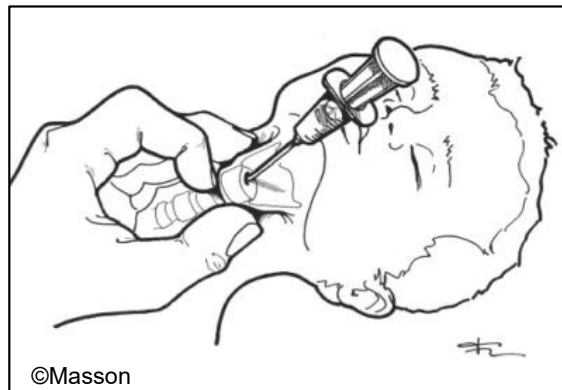
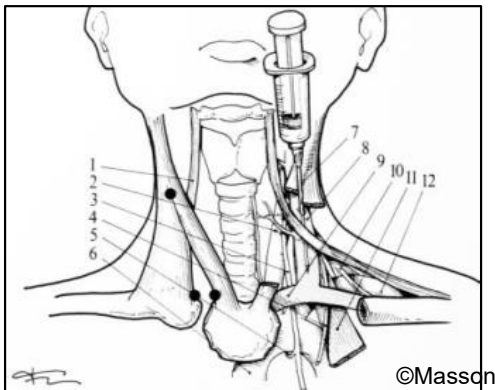
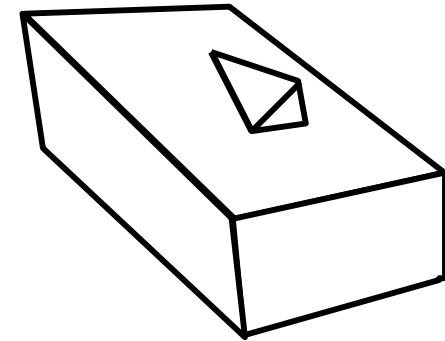
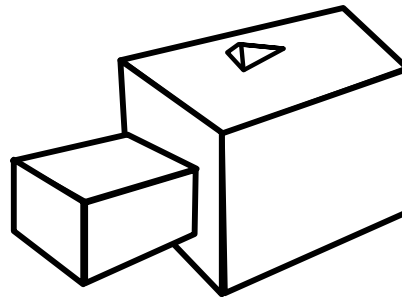
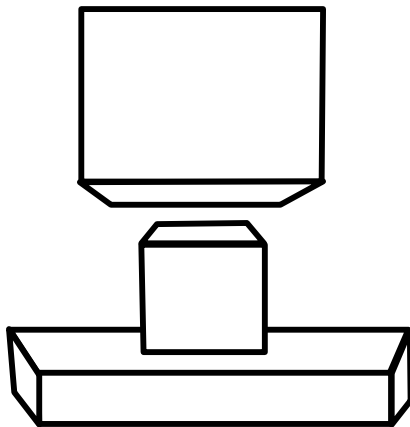
PLME 0400

Introduction to Medical Illustration

- Goals of the course

1. Become better communicators

- Creating a sketch (angle, point of view)



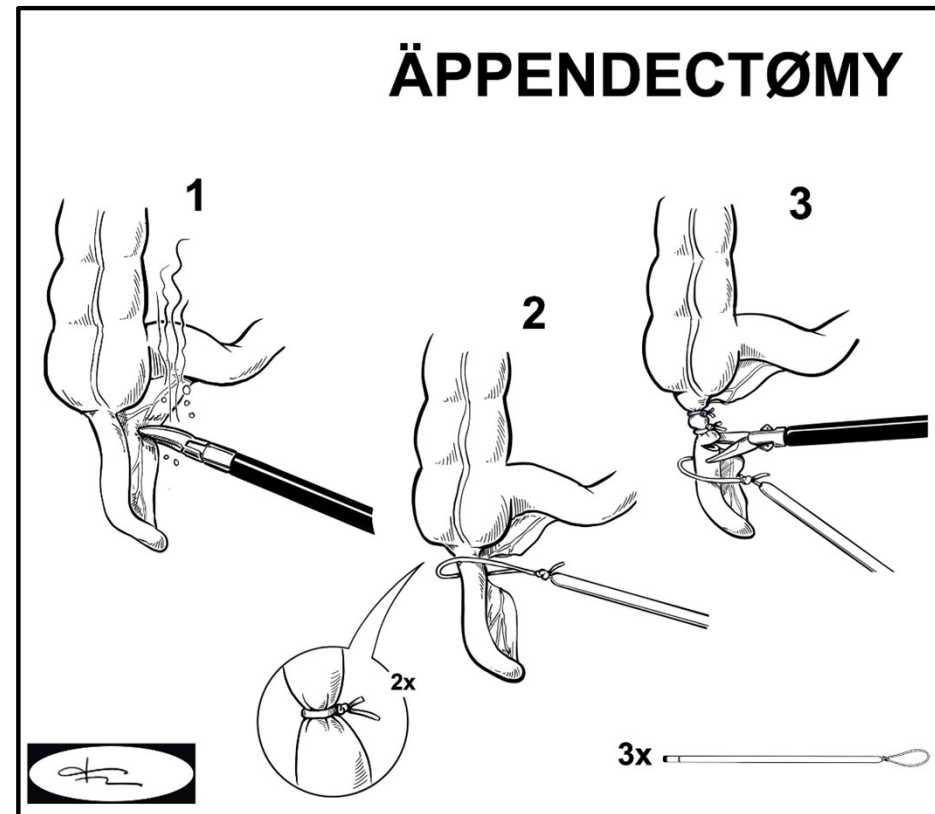
PLME 0400

Introduction to Medical Illustration

- Goals of the course

1. Become better communicators

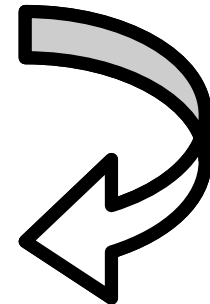
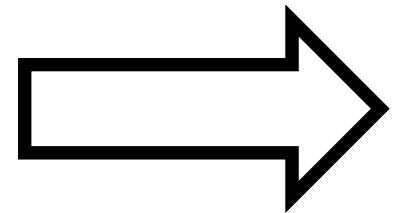
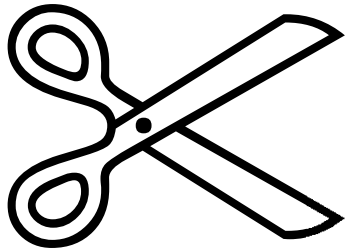
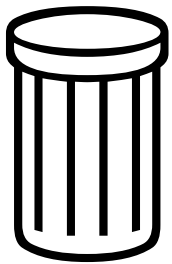
- Narrative: Choosing the relevant elements/steps



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 - Symbols, archetypes, pictograms and arrows



PLME 0400

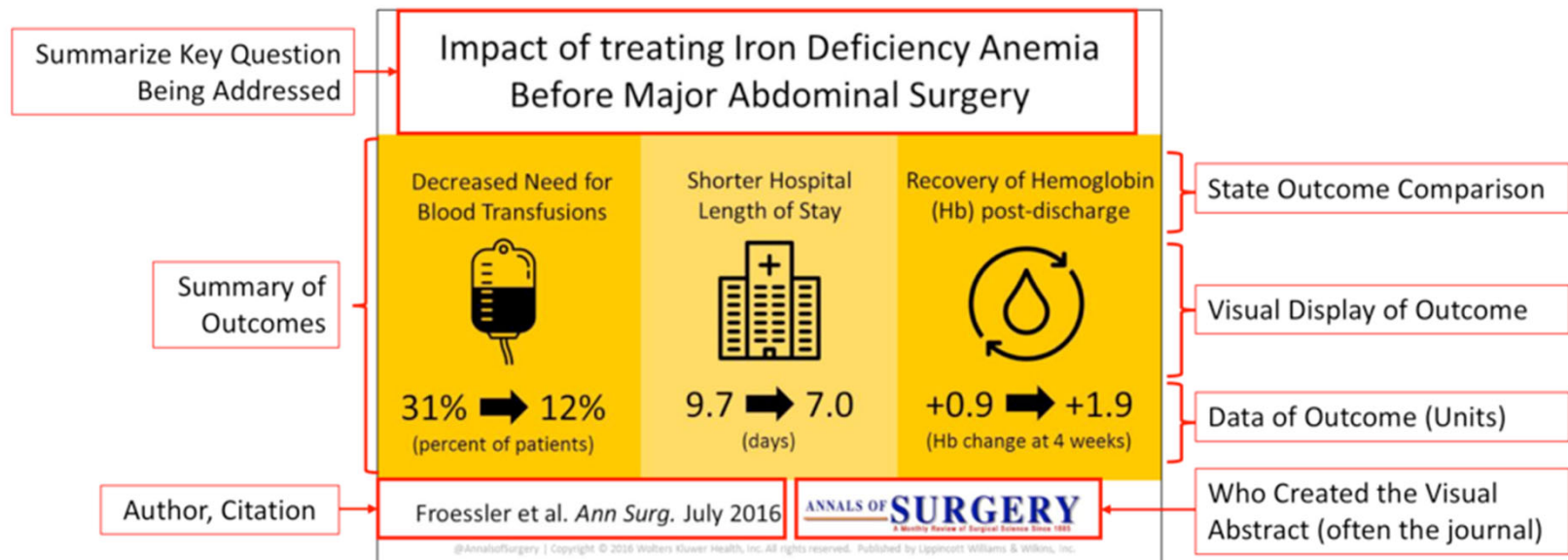
Introduction to Medical Illustration

- Goals of the course

1. Become better communicators

- The Visual Abstract

COMPONENTS OF AN EFFECTIVE VISUAL ABSTRACT



PLME 0400

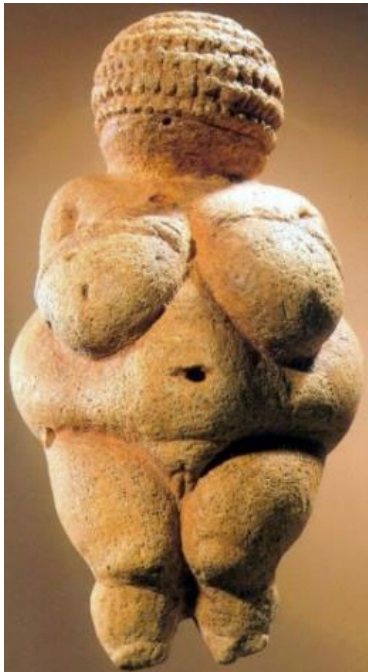
Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 - History of medical illustration: its link to history of medicine

PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 - Antiquity: religious roles; depiction of practices



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 - 1543 changed everything
 - 17th-18th c.: Golden age of anatomists – and illustrators



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 - 1543 changed everything
 - 17th-18th c.: Golden age of anatomists – and illustrators
 - 20th c.: The Department of Art as applied to Medicine



PLME 0400

Introduction to Medical Illustration

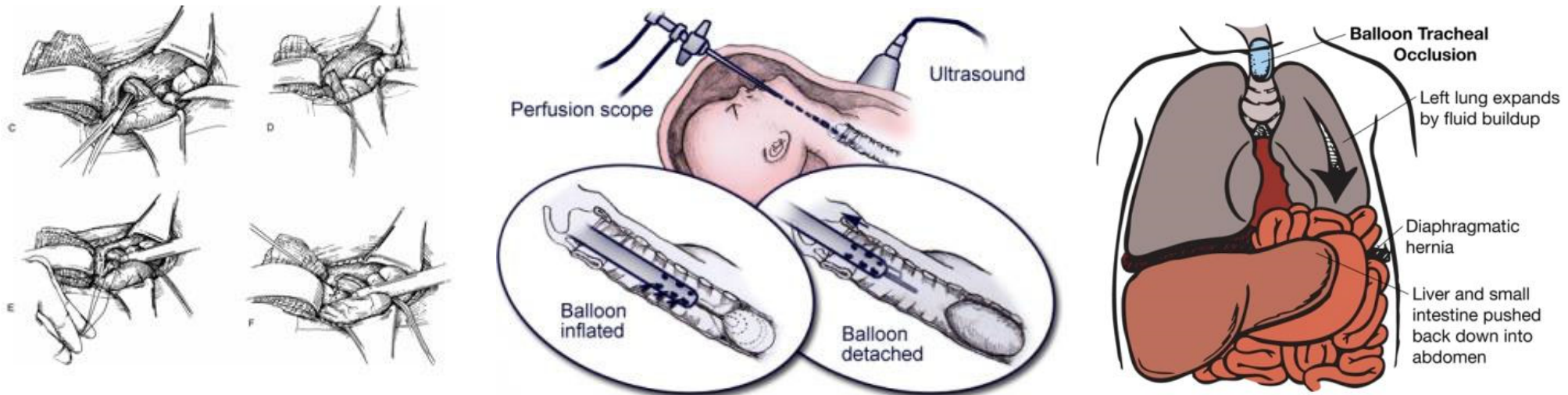
- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 - Why do we still need medical illustrators today?
 - Intrinsic, germane and ~~extraneous~~ cognitive loads



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
- Why do we still need medical illustrators today?
 - A good picture is worth a thousand bad ones (critique)



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 3. Learn to be an observant doctor through art
 - Syndromes and diseases



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 3. Learn to be an observant doctor through art
 - Medical and surgical practices



PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 3. Learn to be an observant doctor through art
 4. Be a thoughtful illustrator
 - Impressive deeds by bad people: (How) do we separate them?



Alexis Carrel



Ty Cobb



Roman Polanski



Michael Jackson

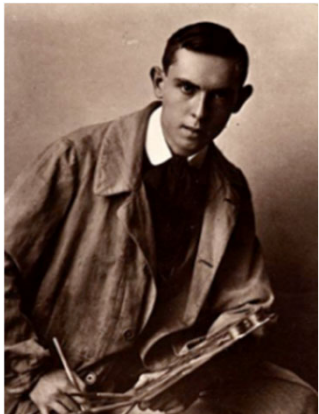


R. Kelly

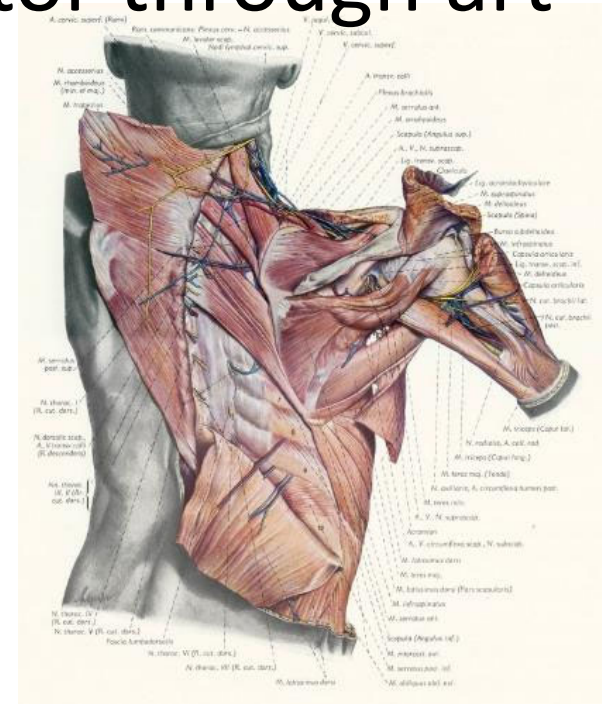
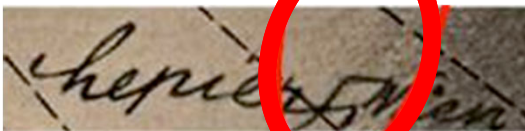
PLME 0400

Introduction to Medical Illustration

- Goals of the course
 1. Become better communicators
 2. Understand the role of medical illustration
 3. Learn to be an observant doctor through art
 4. Be a thoughtful illustrator
 - The ethics of medical illustration



Erich Lepier



PLME 0400

Introduction to Medical Illustration

- What we will NOT (formally) discuss:
 - Photoshop, ProCreate, Adobe Illustrator
 - Digital drawing is more important than ever
 - Free to use it – but pen and paper is just fine
 - This is not an illustration course
 - It's about visual communication
 - Drawing instruction is part of it, but respects all levels

PLME 0400

Introduction to Medical Illustration


- What we will NOT (formally) discuss:
 - Artificial Intelligence (A.I.)
 - A very important, and currently burning topic
 - Two main issues:
 - Will it replace us? (Well – did the typewriter, the tablet, etc.?)
 - » Can be a great tool (see typewriter)
 - » Is not art (by definition)
 - » Still requires critique and monitoring
 - Ethics: respecting the source material
 - » Copyright infringements
 - New York Times lawsuit...



PLME 0400

Introduction to Medical Illustration

- Structure of the course – most weeks



BROWN
Alpert Medical School

- [Introduction](#)
- [Faculty](#)
- [References](#)
- [Home Assignment](#)
- [Schedule](#)
- [Evaluation](#)

PLME 0400 - Introduction to Medical Illustration

SCHEDULE

This is the tentative schedule for the Fall 2018 course - please check the web site for last minute changes.

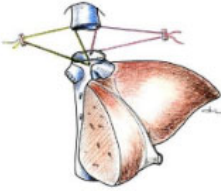
Each Monday lecture is structured similarly: a brief lecture about medicine, history and art; a drawing class, followed by in-class exercise; and a home assignment.

Each Wednesday session is geared toward practical exercises, critique of home assignments and, some weeks, group discussions of assigned articles.

*All Monday classes in room 270 at the Alpert Medical School, 222 Richmond Street, except where indicated.

All Wednesday classes at Rhode Island School of Design, except where indicated.

Slides of the presentations and the drawing instructions will be available after each lecture.

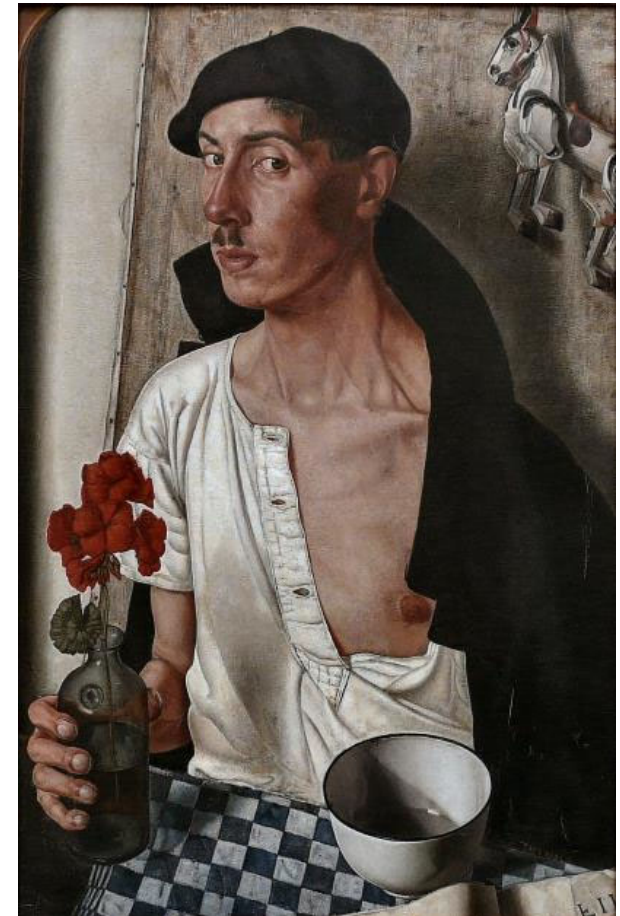


Date	Location	Topic
September 10 4:30-6:00 pm	Room 270	Introduction <ul style="list-style-type: none"> - Overview of the course - History of medical illustration: Antiquity to 1543 - Drawing instruction: shapes, perspective, lighting - In-class exercise - Assignment: Breakfast items
September 12 4:30-6:00 pm	RISD	Practice illustration <ul style="list-style-type: none"> - Demonstration - Exercise: Volumes
September 17 4:30-6:00 pm	Room 270 Marguerite Vigliani	Creating a sketch <ul style="list-style-type: none"> - History of medical illustration: 1543 to 1900 - Lecture: Secret anatomy (history of dissections) - Drawing instruction: Ellipses, tubes, gray scales - In-class exercise: Shading bones - Assignment: Tubes & ellipses: tracheo-bronchial tree
September 19 4:30-6:00 pm	RISD	Practice illustration <ul style="list-style-type: none"> - Critique of home assignments - Demonstration - Exercise: skeletal and vascular anatomy - Final project: group assignments
September 24 4:30-6:00 pm	Field Trip	RISD Nature Lab <ul style="list-style-type: none"> - Introduction and demonstration - Free drawing

PLME 0400

Introduction to Medical Illustration

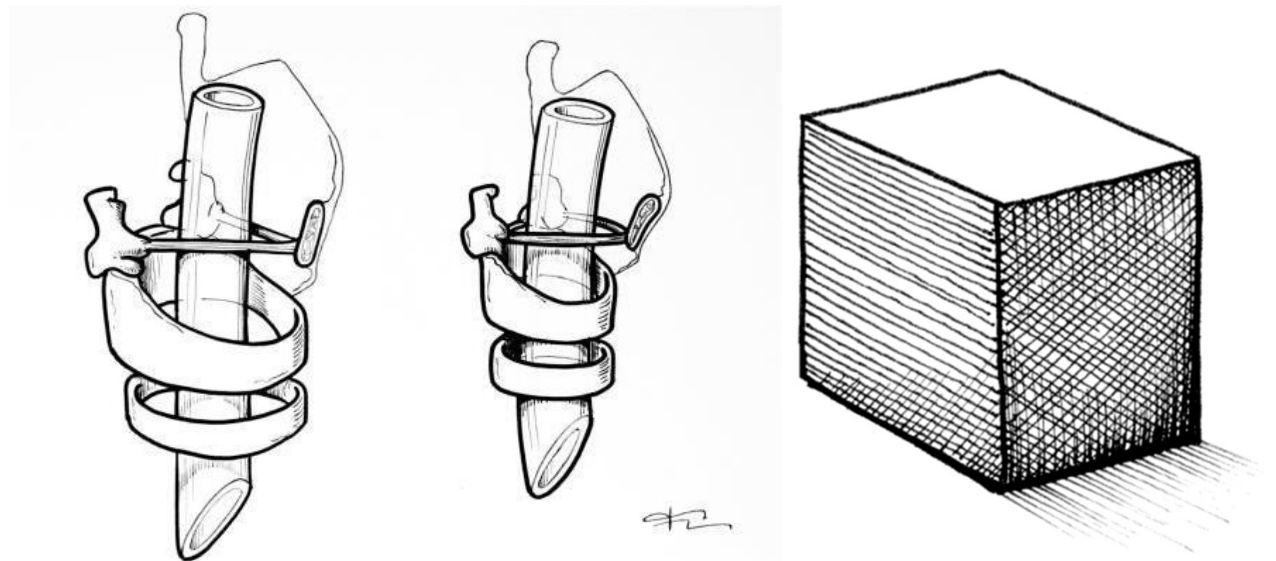
- Structure of the course
 1. Lecture on medicine, history and art



PLME 0400

Introduction to Medical Illustration

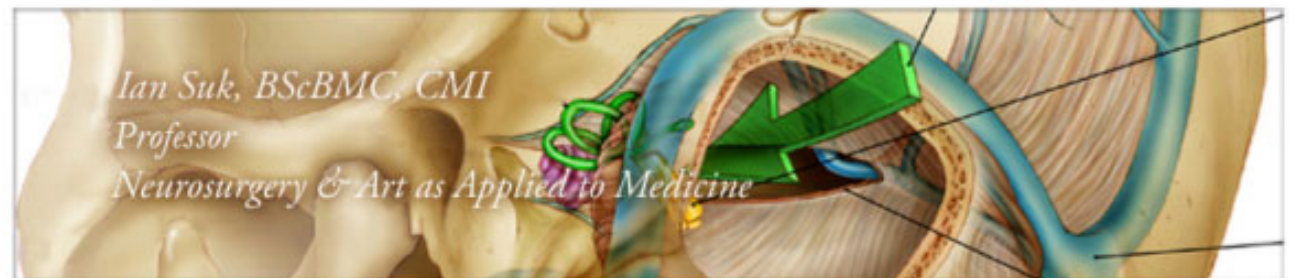
- Structure of the course
 1. Lecture on medicine, history and art
 2. Drawing instruction



PLME 0400

Introduction to Medical Illustration

- Structure of the course
 1. Lecture on medicine, history and art
 2. Drawing instruction
 3. Guest lectures



PLME 0400

Introduction to Medical Illustration

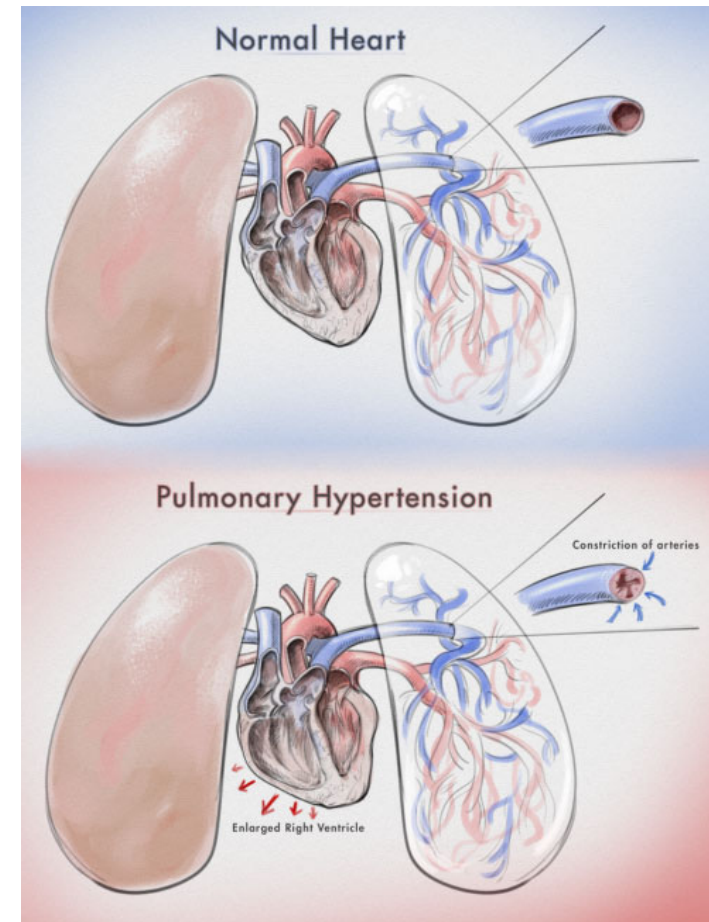
- Structure of the course
 1. Lecture on medicine, history and art
 2. Drawing instruction
 3. Guest lectures
 4. In-class exercises



PLME 0400

Introduction to Medical Illustration

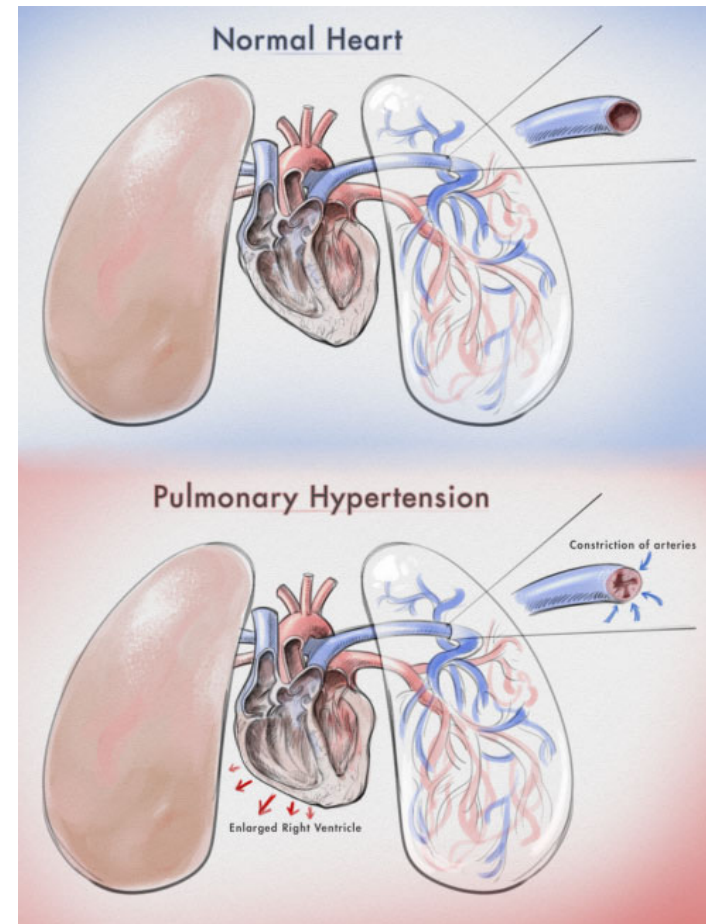
- Structure of the course
 1. Lecture on medicine, history and art
 2. Drawing instruction
 3. Guest lectures
 4. In-class exercises
 5. Home assignments



PLME 0400

Introduction to Medical Illustration

- Structure of the course
 1. Lecture on medicine, history and art
 2. Drawing instruction
 3. Guest lectures
 4. In-class exercises
 5. Home assignments
 6. Critique



PLME 0400

Introduction to Medical Illustration

- Structure of the course

7. Final project

- Groups of 4



PLME 0400

Introduction to Medical Illustration

- Structure of the course
 1. Classes are in Alpert Medical School
 - Monday more lecture-heavy
 - Wednesday more practical

PLME 0400

Introduction to Medical Illustration

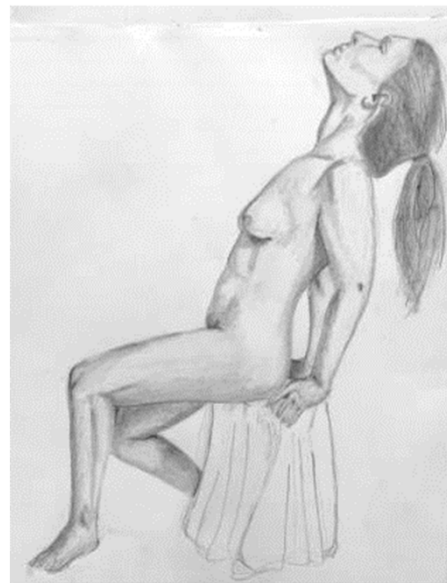
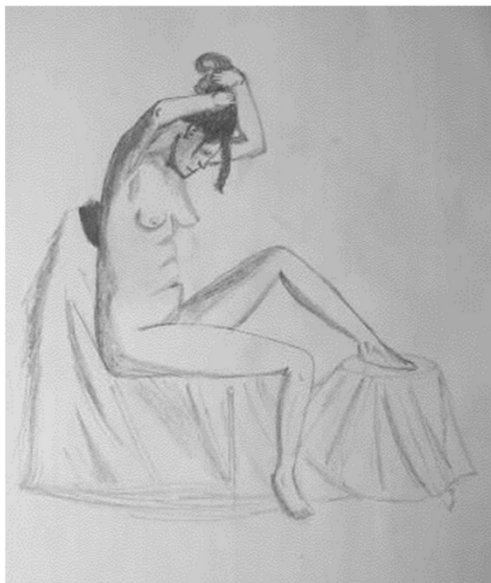
- Structure of the course
 1. Classes are in Alpert Medical School
 2. Field trips
 - RISD Nature Lab (gross and microscopic)



PLME 0400

Introduction to Medical Illustration

- Structure of the course
 1. Classes are in Alpert Medical School
 2. Field trips
 - RISD Live model drawing



PLME 0400

Introduction to Medical Illustration

- Structure of the course
 1. Classes are in Alpert Medical School
 2. Field trips
 - RIH Operating Room



PLME 0400

Introduction to Medical Illustration

- Evaluation and grading
 - Participation 20%
 - In-class exercise
 - In-class critique
 - Field trips
 - Home assignments 50%
 - Timeliness, completeness
 - Group project 30%
 - Originality
 - Execution
 - Defense

PLME 0400

Introduction to Medical Illustration

- Syllabus
 - See web
- Reference material
 - List of articles and books on canvas
 - Some mandatory reading (Ethics)
 - Some tips on (few) art supplies
 - No “textbook,” but companion:

