



*Bedside Ultrasound
in the ICU Seminar*



2-day course

Day 1

9:00-9:20: Welcome and refreshments

9:20-9:30: Introduction

A-) Ultrasonography: Basic principles

9:30-10:30:

- Technical aspects and 2-D imaging
- Doppler echo

10:30-10:45: Break

B-) « Goal-directed » echocardiography

10:45-12:00 : Anatomy, views, orientation - part I

- Probe positioning, spatial orientation, ...
- Parasternal long-axis and short-axis views

12:00-12:45: Lunch

12:45-14:00: Practical session #1

- > Familiarisation
- > Parasternal long-axis and short-axis views

14:00-14:15: Break

14:15-15:30: Anatomy, views, orientation - part II

- Apical 4-chamber and sub-costal views
- Cardiac output calculation

15:30-16:30: Practical session # 2

- > Apical 4-chamber and sub-costal views

16:30: End of session.

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Day 2

AM

7:30-8:00: Breakfast

8:00-9:00: At the « heart » of the matter : Part I

- ➔ Left ventricular function
- ➔ Right ventricular function
- ➔ Pulmonary emboli

9:00-9:30: At the « heart » of the matter : Part II

- ➔ Pericardial effusion / tamponade
- ➔ Volume status assessment

9:30-10:00: Break

10:00-11:15: Practical session # 3

- Integration of parasternal, apical, and sub-costal views.

11:15-12:15 : Lunch

PM

C-) « Goal-directed » General Ultrasonography

12:15-13:30 : Vessel assessment (central and peripheral vessels)

**13:30-14:30 : Practical session # 4: > Assessment of central and peripheral vessels
> Echo-guided line insertion (on simulators)**

14:30-14:45 : Break

14:45-15:15 : Pleural space assessment for free fluid

15:15-15:45 : Abdominal space assessment (free fluid, aorta and urinary bladder)

15:45 -17:00 : Practical session # 5

- > Pleural and abdominal spaces
- > Abdominal aorta and urinary bladder

17:00: Conclusion of the program.

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