

ECMOBARNA INTERNATIONAL ECLS WORKSHOP

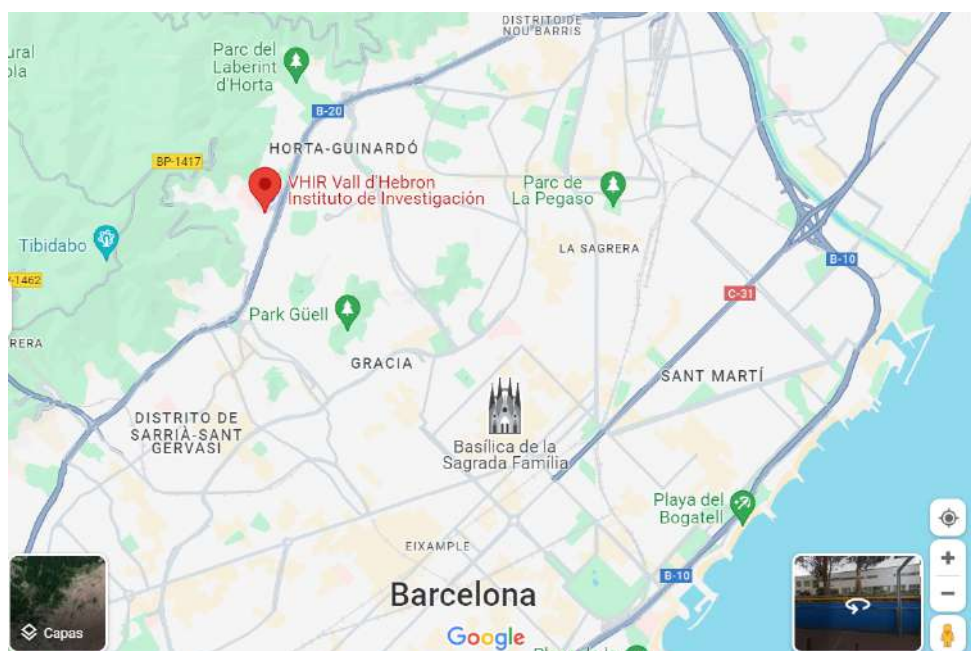
IN-VIVO MODEL

4th OCTOBER 2024



SUMMARY

- In-vivo model for ECLS training mainly focused on the Seldinger cannulation technique and configuration changes.
- 2 parallel identical workshops with ratio faculty/student of 3/6.
- Date and schedule: 4th October, 8h30-16h.
- Language: English.
- Places: 12.
- Cost: 960 euro (networking lunch included).
- Venue: Vall d'Hebron Research Institute, animal lab:



- Ethics: This workshop has been approved by the Animal Ethics Committee (CEEA 01/24). We treat the animals with the utmost respect and provide them with the best care until the end of the workshop. We also expect the students to do the same.

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FACULTY



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LEARNING OBJECTIVES

1. Main:

- a. Venous cannulation. Seldinger technique.
- b. Femoral arterial cannulation with distal perfusion. Seldinger technique.

2. Secondary:

- a. Start of V-V ECMO support.
- b. Start of V-A ECMO support.
- c. Simulate recirculation.
- d. Simulate differential oxygenation.
- e. Conversion V-V to V-A.
- f. Conversion V-A to V-VA.
- g. Conversion V-VA to V-V.
- h. Conversion V-A to VV-A.
- i. Conversion VV-A to V-V.

PROGRAM

(could be modified depending on the evolution of the cases)

INTRO 8h30 – 9h

PART 1 9h-12h

1. Right femoral vein cannulation (19F / 55cm).
2. Right jugular vein cannulation (19F / 15cm).
3. VV (F-J) ECMO start.
4. Simulation of recirculation.
5. Right femoral artery cannulation and distal perfusion. (15F / 15cm + 6F).
6. Conversion VV (F-J) to VA (F-F).
7. Simulation of harlequin syndrome I.
8. Conversion VA (F-F) to VA (J-F).
9. Simulation of harlequin syndrome II.
10. Conversion VA (J-F) to VA (F-F).
11. Conversion VA (F-F) to V-VA (F-JF).
12. Simulation of harlequin syndrome III.

12h-12h30 NETWORKING LUNCH



PART 2 12h30-15h30

1. Conversion V-VA (F-JF) to VV (F-J).
2. Left femoral vein cannulation (19F / 55cm single lumen).
3. Conversion VV (right femoral to right jugular) to VV (right femoral to left femoral).
4. Simulation of recirculation I.
5. Left jugular cannulation (17F / 15cm).
6. Conversion from VV (right femoral to left femoral) to VV (right femoral to left jugular).
7. Simulation of recirculation II.
8. Left femoral artery cannulation and distal perfusion. (15F / 15cm + 6F).
9. Conversion VV (F-J) to VA (F-F).
10. Simulation of harlequin syndrome I.
11. Conversion VA (F-F) to VA (J-F).
12. Simulation of harlequin syndrome II.
13. Conversion VA (J-F) to VV-A (FJ-F).
14. Conversion VV-A (FJ-F) to VV (F-J).

WRAP UP 15h30-16h