

# X INTERNATIONAL COURSE ON MECHANICAL CIRCULATORY SUPPORT and new technologies in Advanced heart failure

14th, 15th and 16th of March 2024

Hospital Universitari de Bellvitge.  
L'Hospitalet de Llobregat, Barcelona.

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Dear Colleagues and friends,

The **X International Course on mechanical circulatory support and new technologies in advanced heart failure** will take place from the 14th to the 16th of March 2024. In this edition, we aim to keep the same structure from previous courses, with an emphasis on the management of patients with cardiogenic shock and advanced heart failure, but with a focus on mechanical circulatory support.

To achieve these objectives, we will have national and international experts in the field who on top of providing expert presentations, will discuss the clinical cases that will alternate with more formal presentations. We will also have practical workshops and as a novelty, simulation workshops in small groups to learn how to manage patients with short-term and long-term circulatory support, which will occur in parallel to the academic program.

This course is addressed to all medical professionals who are interested in the management of patients that need mechanical circulatory support, such as cardiac surgeons, cardiologists, intensivists, nurses and perfusionists. Like in previous editions, the course will be accredited by the Spanish College of Physicians and has the support of the Spanish Society of Cardiac Surgery, Cardiovascular Nursing and CIBER-CV.

We hope you will like the program and we invite you to join.

Yours sincerely,

Dr. José González Costello

Dr. Daniel Ortiz

Dr. José Carlos Sánchez Salado

Dr. Albert Miralles.

# Scientific program

## Thursday 14th March 2024 (in Spanish)

08:30 h - 13:30 h

### **Practical workshops on the management of patients with mechanical circulatory suport**

*José González Costello, José Carlos Sánchez Salado, Daniel Ortiz, Jordi Castillo, Isaac Llao, Karina Osorio, Laia Rosenfeld, Silvia Ibáñez, Albert Gil, Oriol Alegre, Joan Antoni Gómez-Hospital (Hospital Universitari de Bellvitge-HUB, Barcelona)*

- Coffee break 11:30 h to 12:00 h -

#### **Workshop 1: Durable mechanical circulatory suport**

#### **Workshop 2: Short-term mechanical circulatory suport**

#### **Workshop 3: Exhibition of devices for mechanical circulatory suport**

#### **Workshop 4: Education post-implant and driveline care**

Maximum of 30 participants in each workshop. We offer 4 workshops of 1,5 hours duration each, but you can only attend 3 workshops. Therefore, at the time of signing up you must choose what workshops you want to attend.

13:30 - 14:30 h

Lunch break from

14:30 - 15:30 h

### **Mechanical circulatory suport as a bridge to heart transplantation in Spain**

*Moderators: Victoria Lorente Tordera (HUB, Barcelona) and Aurelio Sarralde (Hospital Universitario Marqués de Valdecilla, Santander)*

**Why do we have new heart transplant allocation criteria in Spain?**

*Juan Delgado (Hospital 12 de Octubre, Madrid)*

**Bridge to heart transplant with short-term mechanical circulatory suport**

*Eduardo Barge Caballero (Hospital Universitario de A Coruña)*

**Bridge to heart transplant with long-term circulatory suport**

*Daniel Ortiz (HUB, Barcelona)*

15:35-16:55 h

### **Controversies in patients with advanced heart failure**

*Moderators: Karina Osorio (Hospital Universitari de Bellvitge, Barcelona) and Sonia Mirabet (Hospital de Sant Pau, Barcelona)*

**Patient with severe mitral regurgitation and severe left ventricular dysfunction:**

1) First Mitraclip

*David Dobarro (Complejo Hospitalario Universitario de Vigo)*

2) First LVAD

*Andrea Eixeres (Hospital Universitario 12 de Octubre, Madrid)*

# Scientific program

Thursday 14th March 2024 (in Spanish)

	<p>Ambulatory monitorization in patients with advanced heart failure</p> <p>1) Invasive <i>Fernando Riesgo (Harefield Hospital, London, UK)</i></p> <p>2) Non invasive <i>Josep Comín Colet (HUB, Barcelona)</i></p> <p>Mechanical circulatory suport for primary graft dysfunction after heart transplant: Central vs peripheral cannulation <i>Aleix Olivella (Hospital Universitari Vall d'Hebron, Barcelona)</i></p>
16:55 - 17:20 h	Coffee break
17:20 - 18:15 h	<p><b>Multidisciplinary management of patients with long-term mechanical circulatory suport</b></p> <p><i>Moderators: Laia Rosenfeld (HUB, Barcelona), Teresa Soria Gómez (Hospital Universitario Puerta de Hierro, Madrid)</i></p> <p>Evaluation of frailty and psico-social situation prior to LVAD implant <i>Amada Recio Platero (Hospital Clínico Universitario, Valladolid)</i></p> <p>Rehabilitation prior and post-implant of an LVAD <i>Elisa Velasco Valdazo (Hospital Universitario Ramón y Cajal, Madrid)</i></p> <p>Palliative care in patients with an LVAD: How do I do it? <i>Josefina Aran (Hospital de Sant Pau, Barcelona)</i></p>
18:20 - 19:45 h	<p><b>What's new in mechanical circulatory suport</b></p> <p><i>Moderators: José Carlos Sánchez Salado (HUB, Barcelona), Salvador Torregrosa (Hospital Universitario La Fe, Valencia)</i></p> <p>Abbott Abiomed Palex Getinge</p>

# Scientific program

Friday 15th March 2024 (English)

- 08:00 - 09:15 h **Controversies in mechanical circulatory suport in patients with cardiogenic shock**  
*Moderators: Albert Ariza (HUB, Barcelona), Fabrizio Sbraga (HUB, Barcelona)*  
**Mechanical circulatory suport in patients with cardiogenic shock:**  
1) Impella CP/Intraortic balloon pump still have a role  
*Joan Antoni Gómez-Hospital (HUB, Barcelona)*  
2) Impella 5.5 through the axillary artery is the way forward  
*Daniel Goldstein (Montefiore Medical Center, New York, USA)*  
**Management of mechanical complications post-AMI, how do I do it?**  
*Daniele Ronco (IRCCS Policlinico San Donato, Milan, Italy)*  
**Current situation of out of hospital eCPR: Is it time to start?**  
*María Isabel Barrionuevo (Hospital Universitari de Bellvitge, Barcelona)*
- 09:15 - 10:15 h **Clinical cases in cardiogenic shock**  
1. Non-ischemic cardiomyopathy  
*Jorge Martínez Solano (Hospital Universitario Gregorio Marañón, Madrid)*  
2. Arrhythmic storm  
*Oriol Alegre (HUB, Barcelona)*  
3. AMI Killip IV with severe mitral regurgitation  
*Marta Marcos (HUB, Barcelona)*  
4. Primary graft dysfunction after heart transplantation  
*Eva Oliver (HUB, Barcelona)*
- 10:15 - 10:30 h **Official presentation**  
*Alvaro Arcocha, Albert Miralles, Josep Comín, Joan Antoni Gómez Hospital, José González Costello*
- 10:30 - 11:00 h Coffee break
- 11:00 - 12:30 h **Controversies in long-term mechanical circulatory support**  
*Moderators: María Dolores García Cosío (Hospital Universitario 12 de Octubre, Madrid), Albert Miralles (HUB, Barcelona)*  
**Patient stabilization with short-term mechanical circulatory suport as a bridge to durable LVAD**  
1) PRO  
*Manreet Kanwar (Allegheny General Hospital, Pittsburgh, USA)*  
2) CON  
*Guillaume Lebreton (Hôpital La Pitié Salpêtrière, Paris, France)*

# Scientific program

## Friday 15th March 2024 (English)

	<p>In a &gt; 65 years old patient with dilated cardiomyopathy in INTERMACS 3-4 and good RV, which is the best option?</p> <ol style="list-style-type: none"><li>1. LVAD as destination therapy <i>José González Costello (HUB, Barcelona)</i></li><li>2. Heart transplant is still the best option <i>Marta Farrero (Hospital Clínic, Barcelona)</i></li></ol> <p>Explant after left ventricular recovery in patients with an LVAD: Myth or reality? <i>Paolo Colombo (Columbia University Medical Center, New York, USA)</i></p>
12:30 - 13:30 h	<p><b>Clinical cases: Challenging indications for durable LVAD</b></p> <ol style="list-style-type: none"><li>1. When the RV is not great <i>Elena García-Romero (HUB, Barcelona)</i></li><li>2. Immediately post-AMI <i>Arnau Blasco (HUB, Barcelona)</i></li><li>3. Coming off short-term mechanical circulatory support <i>Lorena Herrador (HUB, Barcelona)</i></li><li>4. Non-ischemic dilated cardiomyopathy <i>Mercedes Rivas Lasarte (Hospital Universitario Puerta de Hierro, Madrid)</i></li></ol>
13:30 - 14:30 h	Lunch break
14:30 - 15:30 h	<p><b>Implant and management in the immediate post-operative period of patients with a durable LVAD</b></p> <p><i>Moderators: Daniel Ortiz (HUB, Barcelona) and Manuel Gómez Bueno (Hospital Universitario Puerta de Hierro, Madrid)</i></p> <p>Key points during the implant and management in the operating room to avoid early right ventricular failure and optimize outcomes <i>Daniel Goldstein (Montefiore Medical Center, New York, USA)</i></p> <p>Management of the immediate post-operative period: Bleeding, right ventricular failure, arrhythmias, renal failure <i>Elena Puerto García (Hospital Universitario 12 Octubre, Madrid)</i></p>

# Scientific program

## Friday 15th March 2024 (English)

15:30 - 16:15 h **Clinical cases: Challenges during the implant and immediate post-operative period after the implant of a durable LVAD**

1. Implant through thoracotomy  
*Manuel Pérez Guillén (Hospital Universitario de La Fe, Valencia)*
2. Complications during the immediate post-operative period  
*Alexander Stepanenko (Hospital Clínico Universitario, Valladolid)*
3. Cardiomyopathy with severe pulmonary hypertension  
*Pablo Català Ruiz (Hospital Universitario Miguel Servet, Zaragoza)*

16:15 - 16:45 h Coffee break

16:45 - 18:15 h **Long-term management of patients with durable LVAD**  
*Moderators: Marisa Crespo Leiro (Complejo Hospitalario Universitario A Coruña), Enrique Pérez de la Sota (Hospital 12 Octubre, Madrid)*

Arrhythmic management during LVAD support: VT ablation before or after LVAD?, should we implant an ICD if he does not have it?, CRT on or off?  
*Paolo Colombo (Columbia University Medical Center, New York, USA)*

Thromboembolic and bleeding complications: the 2 sides of the coin  
*Manreet Kanwar (Allegheny General Hospital, Pittsburgh, USA)*

How to manage driveline infections in a destination therapy patient?  
*Guillaume Lebreton (Hôpital La Pitié Salpêtrière, Paris, France)*

18:15 - 19:00 h **Clinical cases of long-term follow-up of patients with durable LVAD**

1. Device and medical optimization of an ambulatory LVAD patient  
*Carles Díez-López (HUB, Barcelona)*
2. Bridge to recovery: How do I do it?  
*Alba Maestro Benedicto (Hospital de Sant Pau, Barcelona)*
3. Driveline infection: A persistent complication  
*Laura Triguero (HUB, Barcelona)*

Faculty dinner

# Scientific program

Simulation program in mechanical circulatory support will run simultaneously with the scientific program but will be restricted to those that previously sign-up (in spanish)

*José Carlos Sánchez Salado, Jordi Castillo, María Isabel Barrionuevo, Isaac Llao, Carles Díez López, Lorena Herrador, Jesús Carmona, Francisco de la Cuerda, Marta Marcos, Irene Tinoco, Paula Selvi, Miguel Fernández, Roser Soler, Lidia Rodríguez, Àlex Medina, Andrea Chicano.*

14th March 2024

**Simulation with Impella (6 persons per group)**

14:30-15:45 h Group 1 16:00-17:15 h Group 2 17:30-18:45 h Group 3 19:00-20:15 h Group 4

15th March 2024

**Simulation with left ventricular assist device, ambulatory management (6 persons per group)**

08:00-9:15 h Group 1 09:30-10:45 h Group 2

**Simulation with left ventricular assist device, immediate post-operative management (6 persons per group)**

14:30-15:45 h Group 1 16:00-17:15 h Group 2 17:30-18:45 h Group 3 19:00-20:15 h Group 4

16th March 2024

**Simulation with VA-ECMO (6 persons per group)**

08:30-9:45 h Group 1 10:00-11:15 h Group 2 11:30-12:45 h Group 3 13:00-14:15 h Group 4

## General information

**COURSE VENUE:** Hospital Universitari de Bellvitge

Carrer de la Feixa Llarga, s/n • L'Hospitalet de Llobregat - 08907 (Barcelona)

**TECHNICAL SECRETARY:**

**ACTOServeis**  
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**ACCREDITATION:**

• Course validated by FENIN

• Activity accredited by Consell Català de Formació Continuada de les Professions Sanitàries – Comisión de Formación Continuada del Sistema Nacional de Salud with 1.7 teaching credits

File no. 09/036717-MD



Activity aimed at doctors of cardio-vascular surgery; cardiologists; anesthesiology and reanimation doctors; doctors of intensive medicine and nursing of medical-surgical care

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