



*The Intensive Connection*

**LIVES  
FORUM  
MADRID  
3-5 MAY  
2018**

# MONITORING IN ACUTE RESPIRATORY FAILURE



Share your Conference experience. Tell the world!



**CONFERENCE\_**

<b>Thursday 3 May 2018</b>	14:15 - 20:15
<b>Friday 4 May 2018</b>	09:00 - 19:00
<b>Saturday 5 May 2018</b>	09:00 - 13:00

**REGISTRATION\_**

<b>Thursday 3 May 2018</b>	12:15 - 20:15
<b>Friday 4 May 2018</b>	08:30 - 19:00
<b>Saturday 5 May 2018</b>	08:30 - 13:00

**EXHIBITION\_**

<b>Thursday 3 May 2018</b>	14:15 - 20:15
Networking Reception & Posters Sessions	18:00 - 20:15
<b>Friday 4 May 2018</b>	09:00 - 19:00
<b>Saturday 5 May 2018</b>	09:00 - 13:00

**SLIDE PREVIEW\_**

<b>Thursday 3 May 2018</b>	12:15 - 20:15
<b>Friday 4 May 2018</b>	08:30 - 19:00
<b>Saturday 5 May 2018</b>	08:30 - 13:00

**CONFERENCE BADGE\_**

Please wear your badge at all times in the rooms and exhibition.

**CONFERENCE LANGUAGE\_**

The official language of the conference is English. There will be no simultaneous translation.

**NON-SMOKING CONFERENCE\_**

ESICM thanks participants in advance for respecting the "non-smoking" policy of the conference and for refraining from smoking in the venue.

**DISCLAIMER\_**

The Organising Society accepts no liability for injuries/losses of whatever nature incurred by participants and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.



### WELCOME FROM THE CHAIR OF ESICM DIVISION OF SCIENTIFIC AFFAIRS

MAURIZIO CECCONI



Alongside our Spanish partners, SEMICYUC & SOMIAMA, ESICM is very happy to welcome you to Madrid.

This year, our LIVES Forum offers a unique opportunity to challenge your knowledge and to answer any questions you may have about respiratory failure and how to monitor and treat it.

**Monitoring is crucial to properly understand and treat our patients with respiratory failure.** The vast majority of patients admitted to our ICUs, for any reason, require some form of ventilatory support. The complexity of the patients we treat is increasing and we face challenges every day at the bedside that require complicated and sometimes opposing solutions. In this respect, over the last year, the importance of proper, multifaceted monitoring tools has emerged, not only to minimise the additional injuries, but also to tailor the therapy to individual patients' needs.

The programme of this conference has been jointly developed by the ESICM's Acute Respiratory Failure (ARF) Section and the Pleural Pressure (PLUG) Working Group, together with the Spanish Society of Intensive & Critical Care Medicine (SEMICYUC).

For the very first time, the LIVES Forum will include both abstracts and hands-on workstations, offering delegates a "complete" experience, from the most innovative research to more practical hands-on aspects.

We have brought together a great mix of elements. We have world class speakers, who will share their expertise and passion for the topics, and we hope that you will be able to share yours with us.

With this unique formula, we hope that you will be able to work with us to create a very interactive meeting. We are confident that you will be able to get the most out of the conference and to use this knowledge to improve patient outcomes at the bedside.

On behalf of the Organising Committee, I wish you a fantastic conference and above all, have fun!

## COMMITTEE & FACULTY\_



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\* Chairs or speakers who have declared a "conflict of interest" in advance of the publication of the Final Programme. Declared conflicts of interest are automatically disclosed to the audience at the beginning of each session.

## CERTIFICATE OF ATTENDANCE / CME CERTIFICATE\_

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LIVES Forum 2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **15 European CME credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

After the conference, you will receive an email inviting you to log in to our platform in order to download your certificate.

## SUPPORTING ORGANISATIONS\_

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14:15-14:30	OPENING CEREMONY	MASSIMO ANTONELLI, MAURIZIO CECCONI & MARÍA CRUZ MARTÍN DELGADO
14:30-15:00	OPENING LECTURE What we have learned from CT in ARDS	LAURENT BROCHARD, RICARD FERRER ROCA Luciano Gattinoni
15:00-18:00	PULMONARY PHYSIOLOGY AT THE BEDSIDE	MARCELO AMATO, RICARD FERRER ROCA
15:00-15:25	Determinants of respiratory drive	Dimitrios Georgopoulos
15:25-15:50	Gas exchange shunt	Tommaso Mauri
15:50-16:15	Gas exchange VD/VT	Fernando Suárez Sipmann
16:15-16:45	COFFEE BREAK	
16:45-17:10	Respiratory mechanics at the bedside during controlled ventilations	Claude Guérin
17:10-17:35	Oesophageal pressure and transpulmonary pressure: basic concept	Laurent Brochard
17:35-18:00	The physiology of sleep	Alexandre Demoule
18:00-20:15	NETWORKING RECEPTION & POSTERS SESSIONS	EXHIBITION

18:00-20:06	POSTER CORNER 1 Advanced monitoring during mechanical ventilation	GUILLERMO MUÑIZ ALBAICETA & CLAUDE GUÉRIN
18:00	007 <b>Capnography as a possible predictor of intraoperative shock severity</b> M. Grynowska, V. Protas, I. Titov, R. Denina	
18:07	008 <b>Respiratory mechanic with elastance derived calculation of relative end inspiratory using a simulator of artificial ventilation (SimVA), comparison between real and virtual acute respiratory distress syndrome patients</b> H. Roze, R. Dubois	
18:14	009 <b>Detailed measurement of oesophageal pressures during mechanical ventilation using an advanced high-resolution manometry catheter</b> - P. Persson, R. Ahlstrand, M. Gudmundsson, O. Stenqvist, S. Lundin	
18:21	010 <b>Biomonitorisation of invasive mechanical ventilated patients with severe exacerbation of chronic obstructive pulmonary disease, with neutrophilic inflammation markers in bronchoalveolar lavage</b> M. Portilla-Botelho, M. Sanchez-Casado, R. Izquierdo, L. Asón, I. Tituana, C. Espinosa, A. Ambros-Checa	
18:28	011 <b>PEEP selection in patients with acute respiratory distress syndrome (ARDS): when there is more than one best respiratory system compliance-information via electrical impedance tomography</b> - C.-W. Chen, P.-L. Su, W.-C. Lin	
18:35	012 <b>Effects of inspiratory airflow on determinants of VILI: preliminary results in mild and moderate ARDS patients</b> T. Mauri, A. Santini, E. Spinelli, D. Tortolani, E. Carlesso, M. Albanese, A. Guzzardella, C. Del Prete, M. Mariani, A. Lissoni, N. Rossi, G. Grasselli, A. Pesenti	
18:42	013 <b>Positive end-expiratory pressure ventilation induces longitudinal atrophy in diaphragm fibers</b> M. van den Berg, J. Lindqvist, P. Hooijman, A. Beishuizen, R. van der Pijl, J. Elshof, C. van den Brom, S. Bogaards, S. Shen, J. Strom, H. Granzier, J. Kole, R. Musters, L. Heunks, C. Ottenheijm	
18:49	014 <b>Calculation of pulmonary elastance by variations of pulmonary artery occlusion pressure during controlled mechanical ventilation</b> J.A. Benítez Lozano, P. Carmona Sánchez, J.M. Serrano Simón	
18:56	015 <b>Pressure ulcers following prone positioning in ARDS patients</b> F. Binda, F. Marelli, D. Turriciano, A. Galazzi, T. Mauri, I. Adamini	
19:03	016 <b>Ventilatory and gasometric changes during the use of heated humidifiers in patients under invasive mechanical ventilation</b> M. Valiente Fernández, I. Sáez de la Fuente, F.D.P. Delgado Moya, Z. Molina Collado, S. Chacón Alves, J.A. Sánchez Izquierdo Riera, J.C. Montejo Gonzalez	
19:10	017 <b>A tool for automatic heart rate detection and removal of cardiogenic artifacts in oesophageal pressure recordings</b> J. Graßhoff, G. Bellani, P. Rostalski	
19:17	018 <b>Effects of positive end-expiratory pressure on diaphragm position and structure</b> J. Elshof, M. van den Berg, J. Lindqvist, P.E. Hooijman, A. Beishuizen, R. van der Pijl, Z.-H. Shi, C. van den Brom, S. Bogaards, S. Shen, J. Strom, H. Granzier, J. Kole, R.J.P. Musters, L.M.A. Heunks, C.A.C. Ottenheijm	



19:24	019	<b>Biological monitoring of patients with mechanical ventilation due to exacerbation of chronic pulmonary disease</b> M. Portilla-Botelho, M. Sanchez-Casado, A. Ambros-Checa, L. Asón, J. Lázaro, J. Monserrat, M. Alvarez-Mon
19:31	020	<b>Is respiratory quotient a useful tool for monitoring haemodynamic status and differential diagnosis of lactic acidosis? Case series study</b> - Y. Iwasaki, M. Sanui, T. Masuyama
19:38	021	<b>Biomonitorisation of immunologic kinetics in chronic obstructive pulmonary disease</b> M. Portilla-Botelho, M. Sanchez-Casado, A.M. Bueno-Gonzalez, C. Bujarance, L. Asón, J. Monserrat, M. Alvarez-Mon
19:45	022	<b>Implementation of a spontaneous breathing trial protocol</b> B. Llorente Ruiz, J. Luján, R. Molina, M. Daguerre, M. Trascasa, E. López
19:52	024	<b>Carbon dioxide production and ventilatory inefficiency along a T-piece spontaneous breathing trial are associated with difficult weaning</b> - R. López, R. Pérez, I. Caviedes, F. Cerpa, J. Graf, Ventilatory inefficiency in acute respiratory failure study group
19:59	025	<b>Lung recruitment assessment in ARDS – nitrogen dilution and simple mechanics versus computed tomography</b> A. Salazar, R. López, R. Pérez, J. Graf
18:00-19:59		POSTER CORNER 2 Monitoring patient - Ventilator interaction LLUÍS BLANCH & GIACOMO BELLANI
18:00	026	<b>Efficacy of proportional modes versus pressure support ventilation: a systematic review and meta-analysis</b> J. Kataoka, A. Kuriyama, Y. Norisue, S. Fujitani
18:07	027	<b>Effect of decreasing trigger sensitivity on ventilation homogeneity in patients under pressure support ventilation</b> X.-M. Sun, G.-Q. Chen, Y.-M. Zhou, J.-R. Chen, Y.-M. Wang, K.-M. Cheng, Y.-L. Yang, K. Chen, M. Xu, J.-X. Zhou
18:14	028	<b>Glottic patency during two levels of pressure support and neurally adjusted noninvasive ventilation in patients with acute exacerbation of chronic obstructive pulmonary disease</b> E. Oppersma, J. Doorduyn, P.J. Gooskens, L. Roesthuis, E.H. van der Heijden, J.G. van der Hoeven, P.H. Veltink, L.M. Heunks
18:21	029	<b>Presence of ineffective efforts in clusters (Events) is associated with adverse patient outcome: a validation study of the ineffective effort event algorithm</b> - K. Vaporidi, A. Prokrou, E.M. Antonogiannaki, S. Soundoulounaki, E. Pediaditis, D. Babalis, A. Chytas, I. Chouvarda, R. Magrans, J. Montanya, C. de Haro, J. Lopez Aguilar, R. Kacmarek, L. Blanch, D. Georgopoulos
18:28	030	<b>High-flow nasal cannula in acute respiratory failure monitoring</b> R. Andino, G. Vega, S.K. Pacheco, A.M. Leal, N. Arealillo, L. Fernández, M.J. Rodriguez
18:35	031	<b>Screening weaning failure in prolonged mechanical ventilation: role of the diaphragm</b> J.F. Martínez Carmona, M. Ariza González, F.A. Hijano Muñoz, E. López Luque, M. Delgado Amaya, M.A. Barbancho
18:42	032	<b>Relationship between weaning failure due to diaphragmatic dysfunction and muscle wasting in patients with sepsis and prolonged mechanical ventilation</b> J.F. Martínez Carmona, M. Ariza González, E. López Luque, F.A. Hijano Muñoz, M. Delgado Amaya, M.A. Barbancho
18:49	033	<b>Comparison of occlusion pressure at 100 ms measured with Evita XL ventilator and with airway opening and oesophageal pressure in patients at the time of weaning from invasive mechanical ventilation</b> L. Baboi, M. Mezidi, N. Chebib, H. Yonis, L. Kreitmann, F. Lissonde, E. Joffredo, J.-C. Richard, C. Guérin
18:56	034	<b>Usefulness of airway occlusion pressure for to monitor effort and respiratory work during pressures support ventilation</b> J.A. Benítez Lozano, P. Carmona Sánchez, M. Delgado Amaya, J.M. Serrano Simón
19:03	035	<b>Identification of asynchrony due to reverse triggering by flow-volume loops</b> J.A. Benítez Lozano, P. Carmona Sánchez, J.M. Serrano Simón
19:10	036	<b>Breathing efforts in ARDS (BEARDS): characteristics of the 27 first patients included</b> T. Pham, I. Telias, S. Spadaro, O. Roca, C. Chang-Wen, T. Piraino, T. Mauri, J.-X. Zhou, M. Dres, E. Kondili, R. Mellado Artigas, L. Heunks, H. de Vries, T. Becher, J. Montanya, L. Blanch, J. Mancebo, L. Brochard, PLeUral pressure working Group (PLUG)
19:17	037	<b>A Smart Data Display as a tool for patient-ventilator asynchronies detection and management</b> C. De Haro, J. Montanya, R. Magrans, J. López-Aguilar, G. Gomà, M. Turon, S. Fernández-Gonzalo, R.M. Kacmarek, L. Blanch, ASYNCICU group
19:24	038	<b>Effect of tracheostomy on respiratory mechanics and patient-ventilator asynchronies: an observational study</b> E. Lena, N. López, R. Magrans, J. López Aguilar, U. Lucangelo, R. Kacmarek, J. Montanyà, L. Blanch
19:31	039	<b>Neural and mechanical inspiration and expiration time during a weaning trial</b> A.H. Jonkman, H.J. de Vries, J. Doorduyn, J.G. van der Hoeven, L.M.A. Heunks
19:38	040	<b>Description and preliminary validation of an automated algorithm to detect reverse-triggering using oesophageal pressure</b> M. Madorno, I. Telias, T. Pham, S. Spadaro, O. Roca, C. Chang-Wen, T. Piraino, T. Mauri, J.-X. Zhou, M. Dres, E. Kondili, R. Mellado Artigas, H. de Vries, T. Becher, L. Blanch, J. Mancebo, P.O. Rodriguez, L. Brochard, PLeUral pressure working Group
19:45	041	<b>High flow nasal cannula oxygen therapy (HFNC): Are all respiratory failure the same?</b> J. Higuera Lucas, D. Cabestrero Alonso, R. De Pablo Sánchez
19:52	042	<b>Validation of an automated neural index to detect reverse triggering asynchrony in patients under mechanical ventilation</b> R. Mellado Artigas, F. Damiani, T. Piraino, M. Rausero, I. Soliman, D. Junhasavasdikul, L. Melo, L. Chen, C. Sinderby, N. Comtois, L. Heunks, L. Brochard

## FRIDAY 4 MAY 2018\_ ROOM TAPICES

09:00-10:40	MONITORING PASSIVE PATIENTS	JORDI MANCEBO CORTES, GIACOMO BELLANI
09:00-09:25	Alveolar recruitment	Lu Chen
09:25-09:50	Setting PEEP	Guillermo Muñiz Albaiceta
09:50-10:15	Energy vs pressure	Marcelo Amato
10:15-10:40	ARDS interactive cases	Massimo Antonelli
10:40-11:10	COFFEE BREAK	
11:10-12:50	MONITORING THE PATIENT WITH ACTIVE BREATHING EFFORTS	MARÍA PAZ FUSET CABANES, MARCELO AMATO
11:10-11:35	Patient ventilator interaction	Laurent Brochard
11:35-12:00	Patient self-inflicted lung-injury	Takeshi Yoshida
12:00-12:25	Diaphragmatic dysfunction	Leo Heunks
12:25-12:50	Monitoring dyssynchrony	Lluís Blanch
12:50-13:00	BREAK	
13:00-14:00	INDUSTRY-SPONSORED SYMPOSIUM	See page 11 
14:00-14:15	BREAK	
14:15-15:55	WEANING FROM MECHANICAL VENTILATION	GUILLERMO MUÑIZ ALBAICETA, OSCAR PEÑUELAS RODRIGUEZ
14:15-14:40	Assessing patient effort	Giacomo Bellani
14:40-15:05	Ultrasound for the respiratory muscles	Alexandre Demoule
15:05-15:30	Weaning predictors	Jordi Mancebo Cortes
15:30-15:55	Monitoring and management in post extubation period (HFNC)	Gonzalo Hernandez Martinez
15:55-16:25	COFFEE BREAK	
16:30-19:00	HANDS-ON SESSIONS (30 MIN/STATION)	[registration essential]
<b>Room Jardin</b>	1) Pes	Lu Chen, Jordi Mancebo Cortes
<b>Room Jardin</b>	2) Chest electrical impedance tomography	Tommaso Mauri, Claude Guérin
<b>Room Jardin</b>	3) Respiratory mechanics	Gemma Rialp Cervera, Fernando Suárez Sipmann
<b>Room Jardin</b>	4) Asynchronies	Leo Heunks, Lluís Blanch
<b>Room Neptuno</b>	5) Diaphragm ultrasound	Giacomo Bellani, Marina García de Acilu



## SATURDAY 5 MAY 2018\_ ROOM TAPICES

09:00-10:00	ORAL PRESENTATIONS (6 best abstracts)	LEO HEUNKS & JORDI MANCEBO CORTES
09:00	001	<b>Positive end expiratory pressure titration using two different targets, plateau pressure or end expiratory transpulmonary pressure in acute respiratory distress syndrome patients - M. Bergez, H. Roze</b>
09:10	002	<b>Feasibility and validity of an observational scale as a surrogate of dyspnea in non-communicative intubated patients in the intensive care unit (ICU): The Mechanical Ventilation – Respiratory Distress Observation Scale (MV-RDOS)</b> M. Decavele, C. Bureau, S. Champion, R. Ainsouya, J. Mayaux, S. Demiri, M.-C. Nierat, M. Raux, T. Similowski, A. Demoule
09:20	003	<b>Comparisons of esophageal pressure and direct pleural pressures measurements in mechanically ventilated lung transplant recipients</b> C. Guervilly, A. Tilmont, S. Hraiech, M. Adda, R. Rambaud, B. Coiffard, F. Daviet, J.-M. Forel, X.-B. D'journo, L. Papazian
09:30	004	<b>Impact of position on the regional gradient of end-inspiratory transpulmonary pressure in ARDS patients</b> M. Mezidi, L. Baboi, N. Chebib, H. Yonis, F. Lissonde, L. Kreitmann, E. Joffredo, J.-C. Richard, C. Guérin
09:40	005	<b>Diaphragm thickening fraction correlates with diaphragm electrical activity in patients under mechanical ventilation</b> S. Demiri, B.-P. Dubé, J. Mayaux, E. Morawiec, T. Similowski, M. Dres, A. Demoule
09:50	006	<b>Propsective validation of ROX index for predicting HFNC success in patients with pneumonia</b> O. Roca, B. Caralt, J. Messika, J.R. Masclans, B. Sztrymf, G. Hernández, M. Samper, M. García-de-Acilu, J.-D. Ricard
10:00-10:30	COFFEE BREAK	
10:30-12:10	ADVANCED MONITORING OF THE RESPIRATORY SYSTEM	FEDERICO GORDO VIDAL, LLUÍS BLANCH
10:30-10:55	Lung volumes & EIT	Tommaso Mauri
10:55-11:20	Lung ultrasound	Marina García de Acilu
11:20-11:45	How to integrate monitoring in the clinical management of COPD patients	Gemma Rialp Cervera
11:45-12:10	Monitoring heart-lung interactions	Oriol Roca
12:15-12:45	MAKING TREATMENT DECISIONS BASED ON PHYSIOLOGY: PRECISION MEDICINE IN THE ICU	MASSIMO ANTONELLI
12:45-13:00	CLOSING CEREMONY	MASSIMO ANTONELLI, MAURIZIO CECCONI & MARÍA CRUZ MARTÍN DELGADO

## CONFERENCE SPONSORS & EXHIBITORS\_

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# MEDTRONIC LUNCH SYMPOSIUM

## **Clinical Decision Support: could new technology support clinicians in their daily practice?**

Friday 4th May 2018 at 13:00-14:00

Tapices room

### **Chair:**

Prof. Luciano Gattinoni, Italy

### **Co-chair:**

Prof. Jordi Mancebo, Spain

## **Clinical Decision Support & Mechanical Ventilation – A new concept for ICU during daily practice?**

Dr. Beatriz Lobo Valbuena – University Hospital Henares, Spain

## **Clinical Decision Support: a concrete value proposition for ICU patients?**

Prof. Carlo Alberto Volta – University Hospital Ferrara, Italy

## **Meet the Expert – expectations and experiences on Clinical Decision Support – Open Discussion**

Prof. Luciano Gattinoni – Göttingen University Hospital, Germany

**Lunch boxes will be provided**

## CONFERENCE & EXHIBITION MAP

Company	Booth n°	Poster Corners
FluxMed	1	1 Advanced monitoring during mechanical ventilation
Medtronic	2	2 Monitoring patient - Ventilator interaction
Vyaire Medical	3	
Masimo	4	



**INDUSTRY SPONSORED SESSION\_**

# Medtronic

Further, Together

Friday 4 May 2018  
13:00-14:00  
Room Tapices



## **Clinical Decision Support: Could new technology support clinicians in their daily practice?**

Chairs: Jordi Mancebo, Spain & Luciano Gattinoni, Germany

**13:00-13:20**

Clinical Decision Support  
& Mechanical Ventilation  
- A new concept for ICU  
during daily practice?  
**Beatriz Lobo Valbuena,**  
Spain

**13:20-13:40**

Clinical Decision Support:  
a concrete value proposition  
for ICU patients?  
**Carlo Alberto Volta,**  
Italy

**13:40-14:00**

Meet the Expert - expectations  
and experiences on Clinical  
Decision Support - Open  
Discussion  
**Luciano Gattinoni,**  
Germany







# LIVES 2018

31<sup>ST</sup> ANNUAL  
CONGRESS

PARIS 20-24  
OCTOBER

PALAIS DES CONGRES



*The Intensive Connection*

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