



The Intensive Connection

Acute Respiratory Failure Section Meeting





ARF online Section meeting
26th October 2021
15:00-16:30 CET

Agenda

- Welcome
- Introduction of the new ARF chair (Luigi Camporota)
- Update on the 2021 LIVES meeting
- Update on ARF section activities
 - Webinars
 - Masterclasses
 - Teaching/Education material
 - Surveys
 - Research
 - Guidelines
- Calls for ARF research/Survey projects
- Calls for LIVES 2022 topics
- AOB
- Close

Jordi Mancebo
Jordi Mancebo
Jordi Mancebo

Luigi Camporota
Lise Piquilloud
Lise Piquilloud
Jordi Mancebo
Jordi Mancebo
Luigi Camporota
Luigi Camporota
Luigi Camporota
LC, JM, LP



The Intensive Connection

Webinars, Masterclasses, Surveys

ARF activities

- 5 webinars
- 2 30-min interview
- 1 COVID-19 'Marathon'
- 5 Podcasts

ARF activities 2022

- **Webinar: 18 November 2021**
- **Webinar: 20 January 2022**
- Survey “PRone pOsitioning for inVasively vENTilated patients with COVID-19 Registry”.

2021: Mechanical Ventilation (MV)

Top scoring subject; high participation: 74 participants

Airtrapping/autoPEEP → Ineffective efforts

Normal: $P_{\text{ao}} = P_{\text{atm}}$, $P_{\text{ao}} = 0 \rightarrow 3$, $V_{\text{E}} = 10$, $P_{\text{ao}} = 0 \rightarrow 3$

AutoPEEP: $P_{\text{ao}} = P_{\text{atm}}$, $P_{\text{ao}} = 0 \rightarrow 3$, $V_{\text{E}} = 10$, $P_{\text{ao}} = 0 \rightarrow 3$

Continue case

- Day 4: endotracheal intubation for severe hypoxemic failure
- TV 7 mL/Kg PBW, PEEP 12cmH₂O, Pplat 30cmH₂O, volume controlled mode
- pH 7.15; PaCO₂ 8.5kPa (64 mmHg),
- PaO₂ 11.2 kPa (84mmHg); FiO₂ 0.7; P/F 120 mmHg in prone
- Lactate 1.5mmol/L

Q 2: do you want to use ECCO2R?

Assessment of the whole weaning process

Ely NEJM 1996

Outcome	Control (n=151)	Intervention (n=149)	P Value
Mean no. of days (interquartile range)	1 (0-2)	2 (2-7)	<0.001
Mechanical ventilation	4.5 (2-9)	6 (3-11)	0.003
Intensive care	8 (4-15)	9 (5-16)	0.17
Hospital cost	14 (9-24)	13.3 (8-38)	0.93

RR extubation success = 2.13 (1.55-2.92) $P < 0.001$

Patients Receiving Mechanical Ventilation (%)

Days after Successful Screening



VRANA (GREECE)
THANK YOU ALL SO MUCH, I FELT I WAS 20 YEARS YOUNGER AND HAD TO STUDY FOR EXAMS, AMAZING MASTER CLASS!!

MARGARITA (UK)
THESE E-CLASSES AND THE E-LIVES HAVE BEEN A FANTASTIC BOOST FOR US ALL. THANKS TO THE SOCIETY

OTTO (SWEDEN)
THANK YOU TO THE FACULTY AND ALL PARTICIPANTS FOR THIS EXCELLENT COURSE!

SARA (SPAIN)
THANK YOU VERY MUCH! I LEARNED A LOT FROM ALL OF YOU EXPERTS AND COLLEAGUES

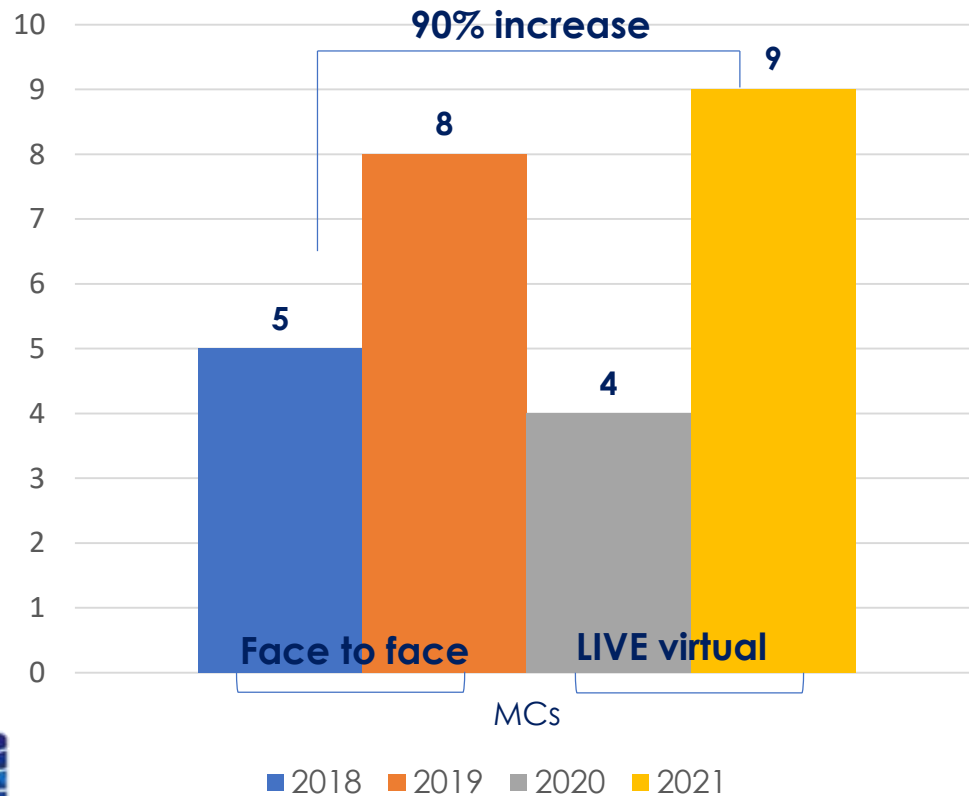
MUHAMMAD (USA)
THANK YOU. AS ALWAYS, VERY HIGH QUALITY

ANNE (UK)
THANK YOU VERY MUCH FOR ALL THE HIGH-QUALITY PRESENTATIONS AND COMMENTS!

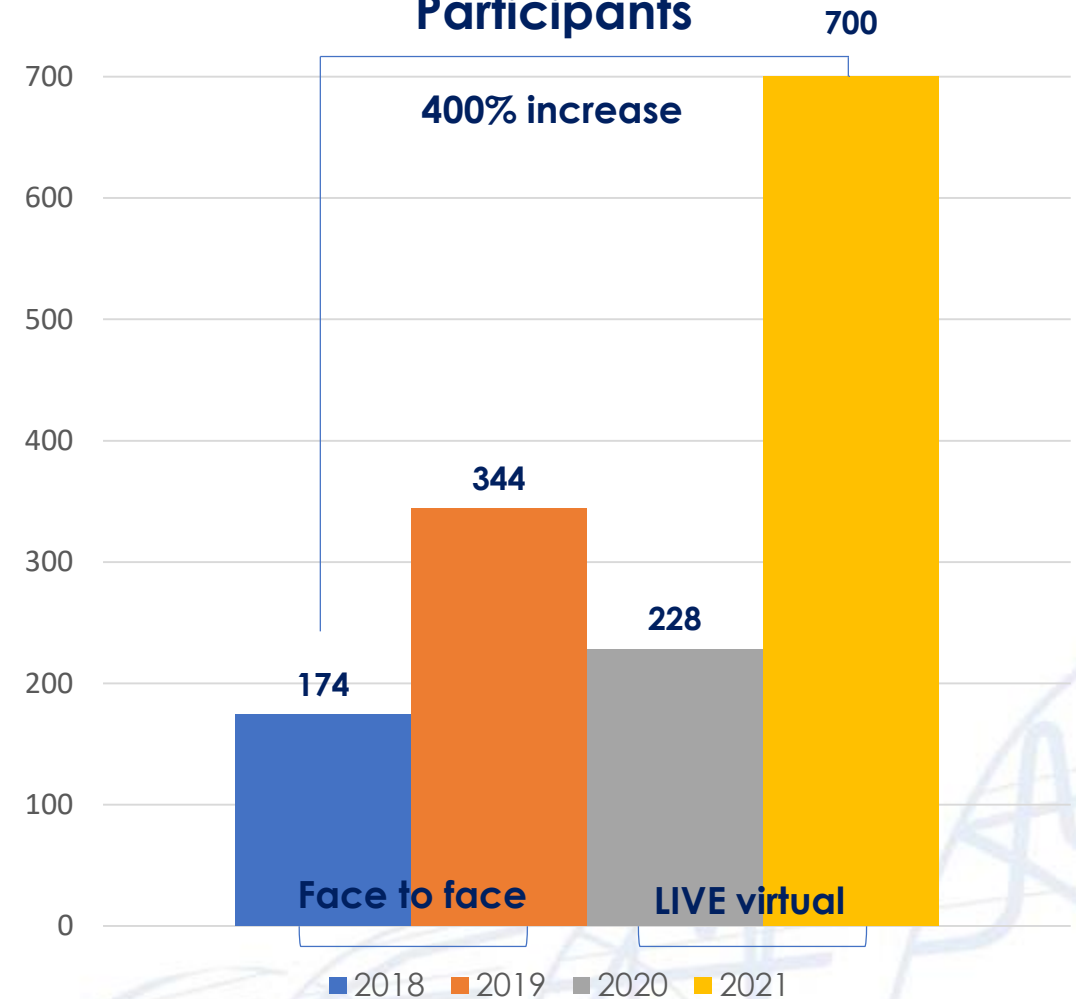
BOBBY (AUSTRALIA)
EXCELLENT MASTERCLASS AS ALWAYS

Master Classes (MCs) 2018-2021

Master Classes



Participants



Mechanical Ventilation (MV)

Edition 2018 (Face to face)

- ✓ Of all participants (n=39), 27 (69.23%) completed both pre and post-test.
- ✓ The mean before the event was 68.72 ± 6.22 SD (Median 68.18) vs. 73.06 ± 6.10 (Median 72.73) after.
- ✓ **Significant knowledge increase of 4.33% ($p < 0.05$).**

Edition 2019 (Face to face)

- ✓ Of all participants (n=48), 40 (83.33%) completed both pre and post-test.
- ✓ The mean before the event was 55.12 ± 9.08 SD (Median 55.35) vs. 59.17 ± 10.72 (Median 60.67) after.
- ✓ **Significant knowledge increase of 4.05% ($p < 0.05$).**

Edition 2020 (Live virtual)

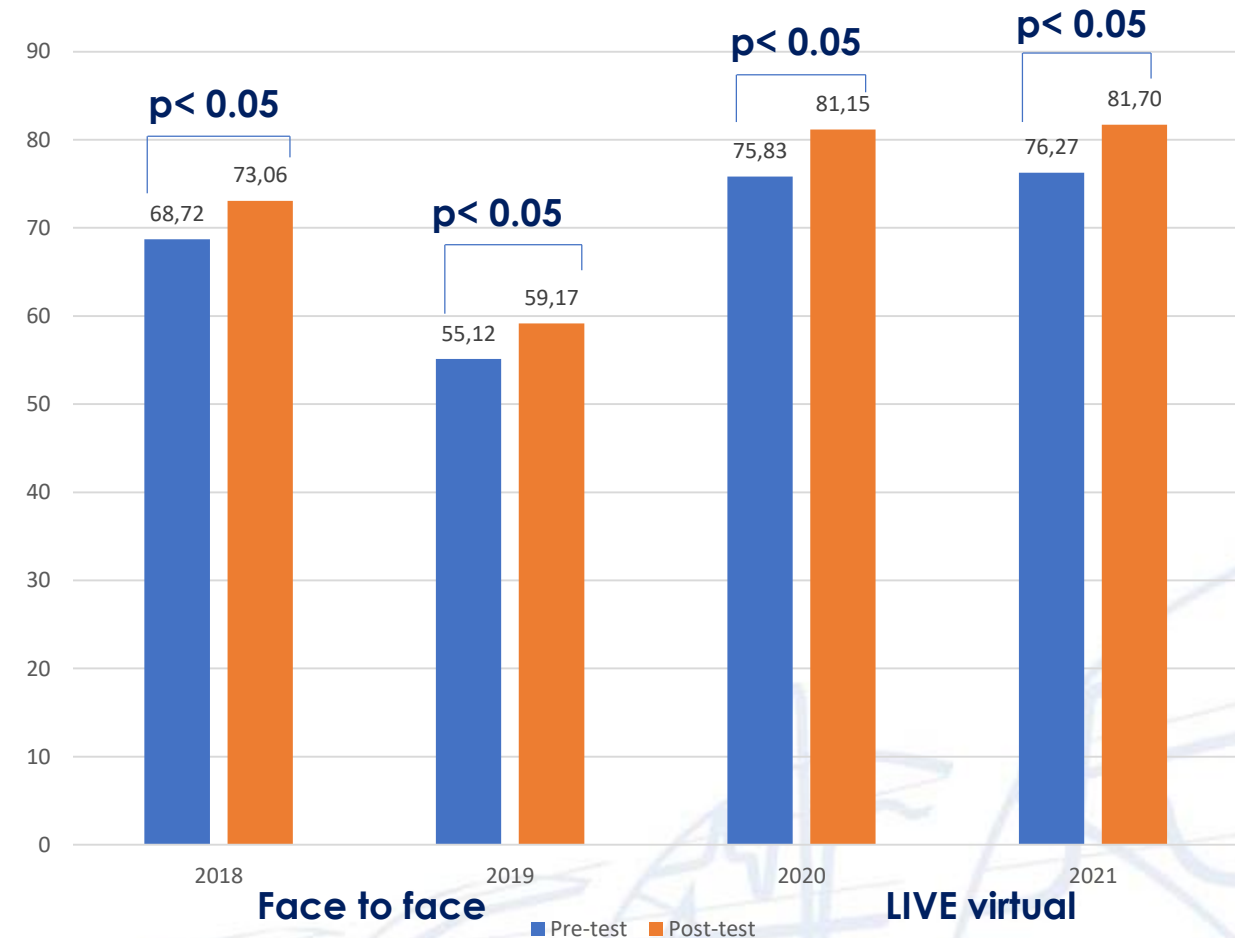
- ✓ Of all participants (n=65), 47 (72.30%) completed both pre and post-test.
- ✓ The mean before the event was 75.83 ± 9.91 SD (Median 78) vs. 81.15 ± 6.90 (Median 82) after.
- ✓ **Significant knowledge increase of 5.32% ($p < 0.05$)!**

Edition 2021 (Live virtual)

- ✓ Of all the participants (n=74), 66 (89.19%) completed both pre and post-test.
- ✓ The mean before the event was 76.27 ± 7.24 SD (Median 76) vs. 81.70 ± 5.48 (Median 82) after.
- ✓ **Significant knowledge increase of 5.42% ($p\text{-value} < 0.05$)!**



MV 2018 - 2021



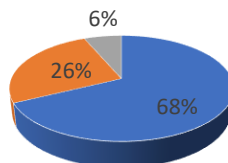
Participants Feedback MV

2018



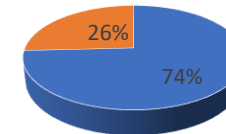
Face to face

What was your overall impression of this event's Programme?



■ Excellent ■ Good ■ Fairly good

How useful for your professional activity did you find this event?

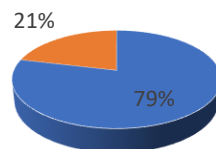


■ Extremely useful ■ Useful

2019

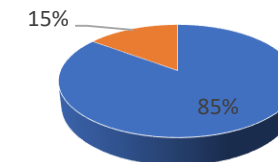


What was your overall impression of this event's Programme?



■ Excellent ■ Good

How useful for your professional activity did you find this event?

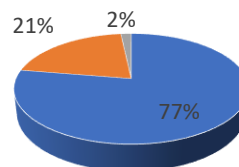


■ Extremely useful ■ Useful

2020

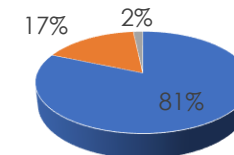


What was your overall impression of this event's programme?



■ Excellent ■ Good ■ Fairly good

How useful for your professional activity did you find this event?



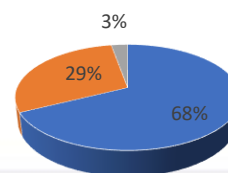
■ Extremely useful ■ Useful ■ Fairly useful

LIVE virtual

2021

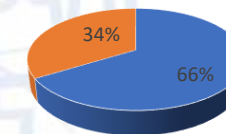


What was your overall impression of this event's Programme



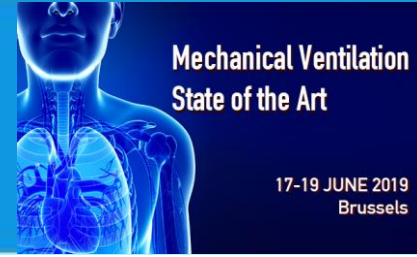
■ Excellent ■ Good ■ Fairly good

How useful for your professional activity did you find this event?



■ Extremely useful ■ Useful

MV 2019 Follow up Survey

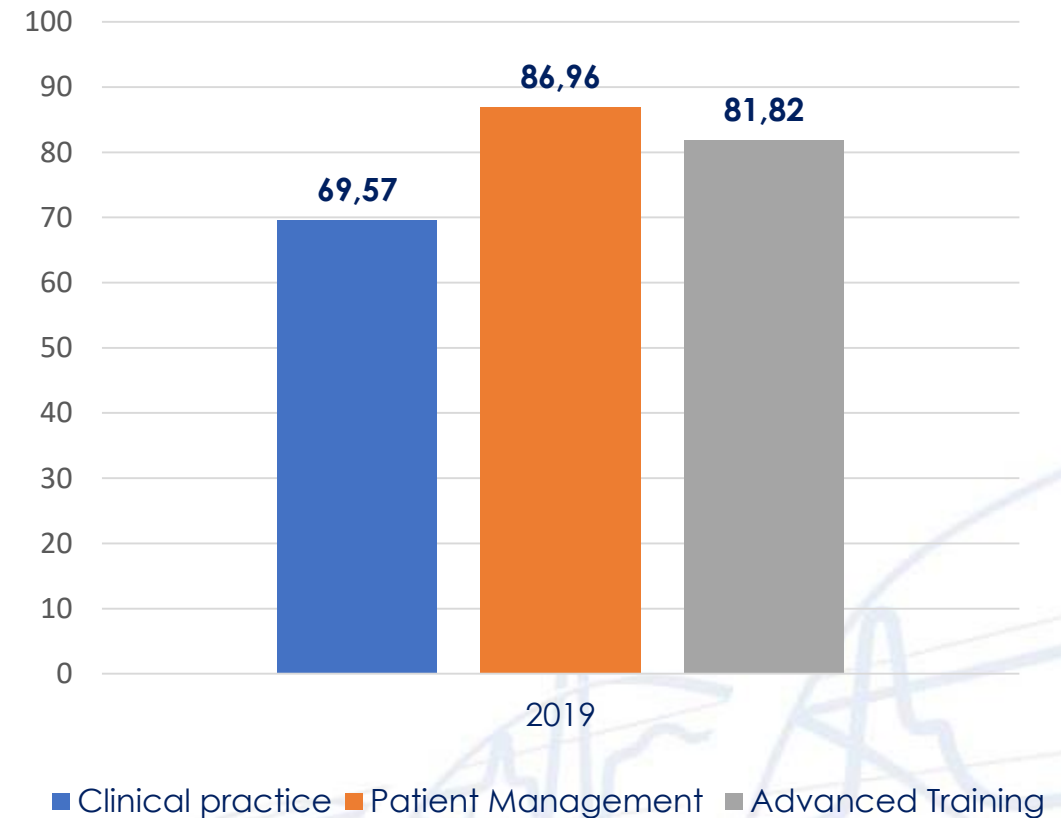


Respondents=23 (n<50% of total attendees)

- ✓ 69.57% found it **very useful** for personal clinical practice
- ✓ 86.96% **changed** their patient management (from somewhat to very much)
- ✓ 81.82% find it **very useful** to have an advanced MV training

Due to low response rate we can see some trends but cannot draw conclusions

Follow up survey results (%)



ARF activities 2022

- **2 editions of MV master classes:**
 - one digital (June edition) and
 - one face to face (pre-congress).
 - 360 degree hands-on/simulation recordings have been proposed and pending for approval for the digital edition. Hands-on at LIVES will be completed by LIVE streaming for those participants who have joined the previous digital master class and don't attend LIVES but wish to connect LIVE to the hands-on session and interact with experts and peers
- **Advanced training on MV to be outlined and presented to the Executive Committee for final approval (directors Luigi Camporota and Leo Heunks). To be launched before LIVES 2022.**

ARF activities 2022

- Taskforce on Dyspnoea ventilated patients
- **ESICM guidelines on mechanical ventilation in ARDS** (Chairs: Carolyne Calfee, Luigi Camporota, Giacomo Grasselli)



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Calls for ARF research Survey projects

<https://www.esicm.org/research/surveys/>

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Introduction

Surveys are an important instrument to generate research questions and evaluate the impact of clinical research in practice. Therefore, a rigorous methodology and quality of surveys is essential for good quality data particularly if ESICM endorsement is requested. You can ask an endorsement from the relevant Section prior to applying to the Research Committee.

For research Survey (for ESICM endorsement or Co-Endorsement)

Pre-submission checklist for applicants

1. Tools and questionnaires for applicants
2. ESICM Application form
3. Assessment tool for ESICM assessors – (can be downloaded by applicants for transparency of the process)

For Society Survey (For Societies seeking ESICM Co-Endorsement)

Contact directly research@esicm.org

Do you have a survey you would like ESICM to endorse?

Fill in the [application form](#) and forward it [here](#) with your questionnaire.



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LIVES 2022 : call for proposals

Contact :

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lise.piquilloud@chuv.ch



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Thank you