

Convocatorias FRPA – BRN de ayudas a proyectos de investigación

Enero 2021

ANEXO 4: PUBLICACIONES PROYECTO “CatCoVer: Catalan COPD Ventilation Register”

Ramón Pla Armengol
FUNDACIÓN PRIVADA

 **BARCELONA
RESPIRATORY
NETWORK**
Collaborative research

PA523: COPD patient cohort on long-term home mechanical ventilation (HMV) in Catalonia (CATCOVER): descriptive analysis.

Anna Sabater (1), Joan Escarrabill (1), Noelia Pérez (2), Pedro A. Antón (2), Eduardo Loeb Melus (3), Sergi Martí (3), Julia Tárrega (4), Ana Córdoba (5), Ana Mas (6), Ferran Barbé Illa (6), Paola Carmona (6), Manel Luján (7), Cristina Lalmolda (7), Laura Ovejero (8), Maria Pilar Ortega (8), Juana Martínez Llorens (9), Ana Balañá (9), Onintza Garmendia Sorrondegui (1), Cristina Embid (1), Òscar Benadich (10), Tomas Salas (11), Carles Rubies (11)

Randomized Controlled Trials (RCT) are not conclusive enough to define HMV prescription in the real world.

Aim of the study.

CATCOVER aims to analyze the cohort of all COPD + HMV patients in Catalonia to describe variability and to identify clusters to refine appropriate prescription criteria.

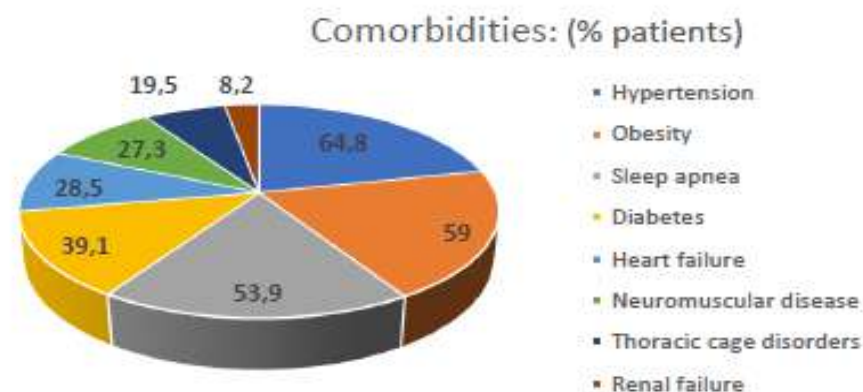
Methods: Cohort composed by all COPD (lung function) + HMV patients financed through public funds (01.01.2018). The analysis is carried out using a cohort multiple randomized controlled trial design (cmRCT) (Relton C. et al. BMJ. 2010;19,340:c1066). Variables: age, blood gases room air, years on HMV, hrs/day on HMV, long-term oxygen therapy (LTOT), prescription center and sleep quality. **Cluster analysis** from the curated database.

COPD+HMV <15% of HMV users in Catalonia	Total N=210	HMV <= 5 years N=166 (79.05%)	HMV > 5 years N=44 (20.95%)
Age (years)	70.50 ± 9.73	69.77 ± 9.99	73.23 ± 8.18 (*)
PaCO ₂ (0.21) mmHg	60.35 ± 12.15	60.77 ± 11.83	58.47 ± 13.54 (*)
Years of use HMV	3.33 ± 3.42	1.92 ± 1.52	8.66 ± 3.34
Use of LTOT	71.43%	73.49%	63.64%

Results

18 different models of devices

>50% good sleep quality



Conclusions: 1) Comorbidities play a role in the prescription. 2) More studies are required to analyze > 5 yrs HMV users and COPD patients on HMV without LTOT. .

Promoted by



Ramón Pla Armengol
FUNDACIÓN PRIVADA

- Hospital Clínic (Barcelona)
- Hospital de la Santa Creu i Sant Pau (Barcelona)
- Hospital Universitari Vall d'Hebron (Barcelona).
- Hospital General de Granollers
- Hospital Universitari de Bellvitge (l'Hospitalet).
- Hospital Universitari Arnau de Vilanova (Lleida)
- Corporació Sanitària Parc Taulí (Sabadell)
- Hospital de Mataró
- Hospital del Mar - IMIM. Barcelona.
- Centre Hospitalari Althaia (Manresa)
- Agència de Qualitat i Avaluacions Sanitàries (AQuAS). Ministry of Health. Barcelona

CLÍNIC
BARCELONA
Hospital Universitari