



Manuel Luján Torné

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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Total de publicaciones: 61
h- index:20
Media de citas por item: 17,56
Suma de citas : 544



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Licenciado en Medicina y Cirugía

Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University

Date of qualification: 1988

Doctorates

Doctorate programme: Doctor en Medicina

Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University

Date of degree: 2011

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Clinical Impact of colonization and infection by multidrug resistant *Pseudomonas aeruginosa* in the critically ill patient.
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Barbara Borgatta
Date of reading: 05/03/2018
- 2 Project title:** Consecuencias fisiológicas a nivel de patron ventilatorio de la administración de terapia con presión positiva expiratoria temporal mediante el dispositivo uniko tpep-e. Master enfermo respiratorio crónico
Type of project: Minor thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Sebastián Martínez
Date of reading: 14/01/2016
- 3 Project title:** Monitorización de las maniobras de tos asistida mecánica, mediante el análisis de las gráficas de presión y flujo- tiempo.
Type of project: Minor thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Cristina Lalmolda
Date of reading: 15/01/2015



- 4** **Project title:** Factores determinantes en la monitorización de la ventilación mecánica no invasiva
Entity: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Student: Ana Sogo

Healthcare experience

Courses and seminars given to healthcare professionals focused on improving medical care

- 1** **Name of the course:** Curso Taller. Tecnología y monitorización en VMNI
City organizing entity: sabadell,
City organizing entity: sabadell
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Start-End date: 2014 - 2015
- 2** **Name of the course:** Curso taller avanzado de VMNI para especialistas en Neumología
City organizing entity: sabadell,
City organizing entity: sabadell
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Start-End date: 2011 - 2012
- 3** **Name of the course:** Curso taller básico de VMNI
City organizing entity: Sabadell,
City organizing entity: Sabadell
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Start date: 2014
- 4** **Name of the course:** Curs taller de VMNI per Urgències i Emergències
City organizing entity: Sabadell,
City organizing entity: Sabadell
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Start date: 2010

Conferences, courses and seminars focused on medical care

Type of event: Workshop
City of entity: Madrid, Catalonia, Spain
Type of participation: Organizational - Scientific and organizing committee
Date of presentation: 29/05/2016
Jornada de Monitorización de la ventilación no invasiva..



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Marcadores fisiopatológicos de la disnea en ppacientes con EPOC
Entity where project took place: Hospital de Sabadell
City of entity: Sabadell, Catalonia, Spain
Nº of researchers: 4
Funding entity or bodies:
Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain
Start-End date: 2019 - 2021
Total amount: 18.200 €
- 2** **Name of the project:** Control de calidad de la espirometría mediante un sistema en red
Entity where project took place: Corporació **Type of entity:** Healthcare Institutions
Sanitària Parc Taulí
Name principal investigator (PI, Co-PI....): Eduard Monsó Molas; Laia Setó; Ana Sogo; Manel Lujan Torné
Nº of researchers: 5
Funding entity or bodies:
CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
City funding entity: Spain
Start-End date: 01/01/2012 - 28/02/2015
Total amount: 6.670 €
- 3** **Name of the project:** Monitoratge de l'eficàcia de la ventilació mecànica no invasiva domiciliària a través de l'anàlisi dels senyals pressió i fluxe-temps integrats a una plataforma diagnòstica digital
Entity where project took place: Corporació **Type of entity:** Healthcare Institutions
Sanitària Parc Taulí
City of entity: Sabadell, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Manel Luján Torné
Nº of researchers: 6
Funding entity or bodies:
Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
City funding entity: Sabadell, Catalonia, Spain
AGENCIA DE GESTIO D'AJUTS UNIVERSITARIS I DE RECERCA
City funding entity: Spain
CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
City funding entity: Spain
Type of participation: Principal investigator
Start-End date: 2010 - 2013 **Duration:** 3 years
Participating entity/entities: Sociedad Española de Neumología y Cirugía Torácica



Total amount: 85.792 €

- 4** **Name of the project:** Monitorització de les maniobres de tos assistida mecànica mitjançant l'anàlisi de les gràfiques de pressió i fluxe-temps
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Name principal investigator (PI, Co-PI....): Manel Lujan Torné; Cristina Lalmolda Puyol; Hector Prados Navarro; Mariona Noray
Nº of researchers: 4
Funding entity or bodies: Societat Catalana de Pneumologia **Type of entity:** Associations and Groups
City funding entity: Barcelona, Catalonia, Spain
Start date: 2015
Total amount: 8.000 €
- 5** **Name of the project:** EFFECTS OF AN EARLY NEUROCOGNITIVE INTERVENTION ON PATIENT-VENTILATOR INTERACTION AND STRESS IN CRITICALLY ILL PATIENTS RECEIVING MECHANICAL VENTILATION
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Name principal investigator (PI, Co-PI....): Lluís Blanch Torra; Josefina Lopez Aguilar; Manel Luján Torné
Nº of researchers: 9
Funding entity or bodies: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
City funding entity: Spain
Start date: 01/01/2014
- 6** **Name of the project:** Dispositivo de monitorización de la eficacia de la ventilación no invasiva
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
City of entity: Sabadell, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Manel Luján Torné
Nº of researchers: 4
Funding entity or bodies: FUNDACIO PARC TAULI
City funding entity: Spain
Type of participation: Principal investigator
Start date: 01/01/2014
Total amount: 5.800 €
- 7** **Name of the project:** Estudio multicéntrico de monitorización de la eficacia de la VMNI domiciliaria a través del análisis de las señales presión y flujo tiempo integrados en una plataforma diagnóstica digital
Entity where project took place: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Name principal investigator (PI, Co-PI....): Manel Luján Torné; Xavier Pomer
Nº of researchers: 12
Funding entity or bodies: Sociedad Española de Neumología y Cirugía Torácica **Type of entity:** Associations and Groups
City funding entity: Barcelona, Catalonia, Spain



Type of participation: Principal investigator
Start date: 01/01/2013
Total amount: 18.000 €

8 Name of the project: Análisis del impacto de la ventilación no invasiva precoz en la esclerosis lateral amiotrófica: Estudio multicéntrico aleatorizado

Entity where project took place: Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

Funding entity or bodies:

Societat Catalana de Pneumologia

Type of entity: Associations and Groups

City funding entity: Barcelona, Catalonia, Spain

Start date: 2011

Total amount: 12.000 €

9 Name of the project: Evaluación de los ingresos adecuados desde servicios de urgencia hospitalarios en la exacerbación de la EPOC. Validez de los criterios explícitos y estudio de la variabilidad entre diferentes centros del SNS. Estudio multicéntrico IRYSS-Adecuación-EPOC

Entity where project took place: Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

City funding entity: Sabadell, Catalonia, Spain

Start date: 2011

10 Name of the project: Medición transcutánea de la presión parcial de anhídrido carbónico y de las saturación de oxígeno: validación del monitor SENTEC

Entity where project took place: Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

Funding entity or bodies:

Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

City funding entity: Sabadell, Catalonia, Spain

Start date: 2006

11 Name of the project: Neumonía neumocócica grave: utilidad de la Rt-PCR en la estratificación de la gravedad e influencia de factores genéticos del huésped en las susceptibilidad y pronóstico

Entity where project took place: Corporació Sanitària Parc Taulí

Type of entity: Healthcare Institutions

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Cambios en patrón ventilatorio en esfuerzo en pacientes EPOC: efecto de la rehabilitación física
Name principal investigator (PI, Co-PI....): Manel Lujan Torne; Roser Coll
Nº of researchers: 3
Participating entity/entities: Corporació Sanitària Parc Taulí
Start date: 2016
- 2 Name of the project:** Automated sleep staging algorithm to assess sleep in patients on long-term noninvasive mechanical ventilation
Degree of contribution: Researcher
Participating entity/entities: Corporació Sanitària Parc Taulí
- 3 Name of the project:** Cambios fisiológicos en el patrón ventilatorio mediante la administración de Presión Respiratoria Positiva temporal (tPEP) en pacientes neuromusculares
Name principal investigator (PI, Co-PI....): Manel Luján Torné
Participating entity/entities: Corporació Sanitària Parc Taulí
- 4 Name of the project:** Estudio piloto en una cohorte de 30 pacientes de la monitorización de la eficiencia de la ventilación mecánica no invasiva domiciliar a través del análisis de las señales de presión y flujo-tiempo integrados en una plataforma diagnóstica digital
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Xavier Pomares; Manel Luján Torné; Carles Grimau
Nº of researchers: 5
Participating entity/entities: Corporació Sanitària Parc Taulí

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Manel Luján. Clinical Consensus Recommendations Regarding Non-Invasive Respiratory Support in the Adult Patient with Acute Respiratory Failure Secondary to SARS-CoV-2 infection. Archivos de bronconeumología. 2020. Available on-line at: <<http://doi.org/10.1016/j.arbres.2020.03.005>>.
Type of production: Scientific paper **Format:** Journal
- 2** Manel Luján. Clinical Consensus Recommendations Regarding Non-Invasive Respiratory Support in the Adult Patient with Acute Respiratory Failure Secondary to SARS-CoV-2 infection. Revista española de anestesiología y reanimación. 2020. Available on-line at: <<http://doi.org/10.1016/j.redar.2020.03.006>>.
Type of production: Scientific paper **Format:** Journal
- 3** Manel Luján. Clinical consensus recommendations regarding non-invasive respiratory support in the adult patient with acute respiratory failure secondary to SARS-CoV-2 infection. Medicina intensiva. 2020. Available on-line at: <<http://doi.org/10.1016/j.medin.2020.03.005>>.
Type of production: Scientific paper **Format:** Journal



- 4** Manel Luján. Guidelines for Chronic Non-invasive Ventilation in COPD: From Experience to Evidence. Archivos De Bronconeumologia. 2020. Available on-line at: <<http://doi.org/10.1016/j.arbres.2020.03.016>>.
Type of production: Scientific paper **Format:** Journal
- 5** Manel Luján. Tidal volume and helmet: Is the never ending story coming to an end?. Pulmonology. 2020. Available on-line at: <<http://doi.org/10.1016/j.pulmoe.2020.02.001>>.
Type of production: Scientific paper **Format:** Journal
- 6** Manel Luján. Noninvasive ventilation: education and training. A narrative analysis and an international consensus document. Advances in respiratory medicine. 2019. Available on-line at: <<http://doi.org/10.5603/arm.a2019.0006>>.
Type of production: Scientific paper **Format:** Journal
- 7** Manel Luján. The addition of a humidifier device to a circuit and its impact on home ventilator performance: a bench study. Pulmonology. 2019. Available on-line at: <<http://doi.org/10.1016/j.pulmoe.2019.11.004>>.
Type of production: Scientific paper **Format:** Journal
- 8** Barbara Borgatta; Mazzo CA; Gatarello S; Imbiscuso AT; Larrosa MN; Manel Luján; Jordi Rello. The clinical significance of pneumonia in patients with respiratory specimens harbouring multidrug-resistant Pseudomonas aeruginosa: a 5-year retrospective study following 5667 patients in four general ICUs. Eur J Clin Microbiol Infect Dis. 36 - 11, pp. 2155 - 2163. 01/11/2017. ISSN 0934-9723
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** INFECTIOUS DISEASES - SCIE; MICROBIOLOGY - SCIE
Impact index in year of publication: 2,727
- 9** Barbara Borgatta; Lagunes L; Imbiscuso AT; Larrosa MN; Manel Luján; Jordi Rello. Infections in intensive care unit adult patients harboring multidrug-resistant Pseudomonas aeruginosa: implications for prevention and therapy. Eur J Clin Microbiol Infect Dis 37. 36 - 7, pp. 1097 - 1104. 7, 20/07/2017.
Type of production: Scientific paper
Corresponding author: No
- 10** Javier Sayas Catalán; Jiménez Huerta I; Benavides Mañas P; Manel Luján; López-Padilla D; Arias Arias E; Ana Hernández Voth; Claudio Rabec. Videolaryngoscopy With Noninvasive Ventilation in Subjects With Upper-Airway Obstruction. Respir Care. 62 - 2, pp. 222 - 230. 03/02/2017.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
- 11** Marina Galdeano; Manel Luján. Hering-Breuer reflex and non-invasive mechanical ventilation. Does it also occur during expiration?. Archivos de bronconeumologia. (Spain): 23/07/2016. ISSN 1579-2129
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI **Category:** Science Edition - CRITICAL CARE MEDICINE
Impact index in year of publication: 3,331 **Journal in the top 25%:** No



- 12** Cristóbal Esteban; José M Quintana; Susana Garcia Gutierrez; Ane Anton Ladislao; Nerea Gonzalez; Marisa Baré; Nerea Fernández de Larrea; Francisco Rivas Ruiz; IRYS-COPD group. Determinants of change in physical activity during moderate-to-severe COPD exacerbation. *International journal of chronic obstructive pulmonary disease*. 11, pp. 251 - 261. (New Zealand): 03/02/2016. ISSN 1178-2005
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - RESPIRATORY SYSTEM
Impact index in year of publication: 3.141 **Journal in the top 25%:** No
- 13** Xavier Pomares; Concepción Montón; Marisa Baré; Marina Pont; Cristina Estirado; Joaquim Gea; José María Quintana; Silvia Vidal; Ana Santiago; IRYSS COPD group. Emergency Hospital Care for Exacerbation of COPD: Is Inhaled Maintenance Therapy Modified?. *COPD*. 13 - 1, pp. 11 - 18. 2016. ISSN 1541-2563
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - RESPIRATORY SYSTEM
Impact index in year of publication: 2,673 **Journal in the top 25%:** No
- 14** Cristóbal Esteban; Inmaculada Arostegui; Susana Garcia Gutierrez; Nerea Gonzalez; Iratxe Lafuente; Marisa Bare; Nerea Fernandez de Larrea; Francisco Rivas; José M Quintana; IRYSS-COPD group. A decision tree to assess short-term mortality after an emergency department visit for an exacerbation of COPD: a cohort study. *Respiratory research*. 16, pp. 151. 22/12/2015. ISSN 1465-993X
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - RESPIRATORY SYSTEM
Impact index in year of publication: 3,093
- 15** Francisco Rivas Ruiz; Maximino Redondo; Nerea González; Silvia Vidal; Susana García; Iratxe Lafuente; Marisa Bare; María del Puerto Cano Aguirre; José María Quintana López; IRYSS-COPD group. Appropriateness of diagnostic effort in hospital emergency room attention for episodes of COPD exacerbation. *Journal of evaluation in clinical practice*. 21 - 5, pp. 848 - 854. 21/10/2015. ISSN 1365-2753
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Science Edition - HEALTH CARE SCIENCES & SERVICES
Impact index in year of publication: 1,084 **Journal in the top 25%:** No
- 16** Joaquín Burgos; Manel Luján; M Nieves Larrosa; M Luisa Pedro Botet; Dionisia Fontanals; M Dolores Quesada; Mayli Lung; Guadalupe Bermudo; Benito Almirante; Vicenç Falcó. The problem of early mortality in pneumococcal pneumonia: a study of risk factors. *The European respiratory journal*. 46 - 2, pp. 561 - 564. 08/2015. ISSN 1399-3003
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 8.33
- 17** José M Quintana; Anette Unzurrunzaga; Susana Garcia Gutierrez; Nerea Gonzalez; Iratxe Lafuente; Marisa Bare; Nerea Fernandez de Larrea; Francisco Rivas; Cristóbal Esteban; IRYSS-COPD group. Predictors of Hospital Length of Stay in Patients with Exacerbations of COPD: A Cohort Study. *Journal of general internal medicine*. 30 - 6, pp. 824 - 831. 06/2015. ISSN 1525-1497
Type of production: Scientific paper **Format:** Journal



Corresponding author: No

Impact source: ISI

Impact index in year of publication: 3,449

Category: Science Edition - HEALTH CARE SCIENCES & SERVICES

Journal in the top 25%: Yes

- 18** Lluís Blanch; Ana Villagra; Bernat Sales; Jaume Montanya; Umberto Lucangelo; Manel Luján; Oscar García Esquirol; Encarna Chacón; Anna Estruga; Joan C Oliva; Alberto Hernández Abadia; Guillermo M Albaiceta; Enrique Fernández Mondejar; Rafael Fernández; Josefina Lopez Aguilar; Jesús Villar; Gastón Murias; Robert M Kacmarek. Asynchronies during mechanical ventilation are associated with mortality. *Intensive care medicine*. 41 - 4, pp. 633 - 641. 04/2015. ISSN 1432-1238

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - CRITICAL CARE MEDICINE

Impact index in year of publication: 7,214

Journal in the top 25%: Yes

- 19** Manel Luján; Ana Sogo; Carles Grimau; Xavier Pomares; Lluís Blanch; Eduard Monsó. Influence of dynamic leaks in volume-targeted pressure support noninvasive ventilation: a bench study. *Respiratory care*. 60 - 2, pp. 191 - 200. 02/2015. ISSN 1943-3654

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

Impact source: ISI

Category: Science Edition - RESPIRATORY SYSTEM

Impact index in year of publication: 1,838

- 20** Susana Garcia Gutierrez; Anette Unzurrunzaga; Inmaculada Arostegui; Jose María Quintana; Esther Pulido; Maria Soledad Gallardo; Cristóbal Esteban; IRYSS-COPD group. The Use of Pulse Oximetry to Determine Hypoxemia in Acute Exacerbations of COPD. *COPD*. 12 - 6, pp. 613 - 620. 2015. ISSN 1541-2563

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - RESPIRATORY SYSTEM

Impact index in year of publication: 2,673

Journal in the top 25%: No

- 21** J M Quintana; C Esteban; A Unzurrunzaga; S Garcia Gutierrez; N Gonzalez; I Lafuente; M Bare; N Fernandez de Larrea; S Vidal; IRYSS-COPD group. Prognostic severity scores for patients with COPD exacerbations attending emergency departments. *The international journal of tuberculosis and lung disease : the official journal of the International Union against Tuberculosis and Lung Disease*. 18 - 12, pp. 1415 - 1420. (France): 12/2014. ISSN 1815-7920

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - RESPIRATORY SYSTEM

Impact index in year of publication: 2,315

Journal in the top 25%: No

- 22** S Garcia Gutierrez; J M Quintana; A Bilbao; A Unzurrunzaga; C Esteban; M Baré; R M Girón Moreno; E Pulido; P Rivas; IRYSS-COPD group. Validity of criteria for hospital admission in exacerbations of COPD. *International journal of clinical practice*. 68 - 7, pp. 820 - 829. 07/2014. ISSN 1742-1241

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - MEDICINE, GENERAL & INTERNAL

Impact index in year of publication: 2,566

Journal in the top 25%: Yes

- 23** José M Quintana; Cristóbal Esteban; Anette Unzurrunzaga; Susana Garcia Gutierrez; Nerea Gonzalez; Irantzu Barrio; Inmaculada Arostegui; Iratxe Lafuente; Marisa Bare; Nerea Fernandez de-Larrea; Silvia Vidal; IRYSS-COPD. Predictive score for mortality in patients with COPD exacerbations attending hospital emergency departments. BMC medicine. 12, pp. 66. 23/04/2014. ISSN 1741-7015

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - MEDICINE, GENERAL & INTERNAL

Impact index in year of publication: 7,356

Journal in the top 25%: Yes

- 24** M Luisa Pedro Botet; Joaquin Burgos; Manel Luján; Montse Gimenez; Jordi Rello; Ana Planes; Dionisia Fontanals; Irma Casas; Lourdes Mateu; Paola Zuluaga; Carmen Ardanuy; Miquel Sabrià. Impact of the 2009 influenza A H1N1 pandemic on invasive pneumococcal disease in adults. Scandinavian journal of infectious diseases. 46 - 3, pp. 185 - 192. 03/2014. ISSN 1651-1980

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Infectious Diseases

Impact index in year of publication: 1,495

Journal in the top 25%: No

- 25** Joaquín Burgos; Manel Luján; Maria Nieves Larrosa; Dionisia Fontanals; Guadalupe Bermudo; Ana Maria Planes; Mireia Puig; Jordi Rello; Vicenç Falcó; Albert Pahissa. Risk factors for respiratory failure in pneumococcal pneumonia: the importance of pneumococcal serotypes. The European respiratory journal. 43 - 2, pp. 545 - 553. 31/01/2014. ISSN 1399-3003

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - RESPIRATORY SYSTEM

Impact index in year of publication: 7,636

Journal in the top 25%: Yes

- 26** José M Quintana; Cristóbal Esteban; Susana Garcia Gutierrez; Urko Aguirre; Nerea Gonzalez; Iratxe Lafuente; Marisa Bare; Nerea Fernandez de Larrea; Francisco Rivas Ruiz; IRYSS-COPD group. Predictors of hospital admission two months after emergency department evaluation of COPD exacerbation. Respiration; international review of thoracic diseases. 88 - 4, pp. 298 - 306. (Switzerland): 2014. ISSN 1423-0356

Type of production: Scientific paper

Category: Science Edition - RESPIRATORY SYSTEM

Impact source: ISI

Impact index in year of publication: 2,593

Journal in the top 25%: No

- 27** Ana Sogo; Jaume Montanyà; Eduard Monsó; Lluís Blanch; Xavier Pomares; Manel Luján. Effect of dynamic random leaks on the monitoring accuracy of home mechanical ventilators: a bench study. BMC pulmonary medicine. 13, pp. 75. 10/12/2013. ISSN 1471-2466

Type of production: Scientific paper

Category: Science Edition - RESPIRATORY SYSTEM

Impact source: ISI

Impact index in year of publication: 2,404

Journal in the top 25%: No

- 28** Manel Luján; Joaquín Burgos; Miguel Gallego; Vicenç Falcó; Guadalupe Bermudo; Anna Planes; Dionisia Fontanals; Maddalena Peghin; Eduard Monsó; Jordi Rello. Effects of immunocompromise and comorbidities on pneumococcal serotypes causing invasive respiratory infection in adults: implications for vaccine strategies. Clinical



infectious diseases : an official publication of the Infectious Diseases Society of America. 57 - 12, pp. 1722 - 1730. 12/2013. ISSN 1537-6591

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 8,886

Category: Immunology

Journal in the top 25%: Yes

- 29** S Vidal; N González; I Barrio; F Rivas Ruiz; M Baré; J A Blasco; C Ruíz Frutos; J M Quintana. Predictors of hospital admission in exacerbations of chronic obstructive pulmonary disease. The international journal of tuberculosis and lung disease : the official journal of the International Union against Tuberculosis and Lung Disease. 17 - 12, pp. 1632 - 1637. (France): 12/2013. ISSN 1815-7920

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,315

Category: Science Edition - INFECTIOUS DISEASES

- 30** Manel Luján; Ana Sogo; Xavier Pomares; Eduard Monsó; Bernat Sales; Lluís Blanch. Effect of leak and breathing pattern on the accuracy of tidal volume estimation by commercial home ventilators: a bench study. Respiratory care. 58 - 5, pp. 770 - 777. 05/2013. ISSN 1943-3654

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 1,838

Category: Science Edition - RESPIRATORY SYSTEM

- 31** Manel Luján; Xavier Gallardo; María José Amengual; Montserrat Bosque; Rosa M Mirapeix; Christian Domingo. Prevalence of bronchiectasis in asthma according to oral steroid requirement: influence of immunoglobulin levels. BioMed research international. 2013, pp. 109219. 2013. ISSN 2314-6141

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 1,579

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: No

- 32** Manel Luján; Ana Sogo; Eduard Monsó. Home mechanical ventilation monitoring software: measure more or measure better?. Archivos de bronconeumologia. 48 - 5, pp. 170 - 178. (Spain): 05/2012. ISSN 1579-2129

Type of production: Scientific paper

Corresponding author: Yes

Impact source: ISI

Impact index in year of publication: 3,311

Category: Science Edition - CRITICAL CARE MEDICINE

Journal in the top 25%: No

- 33** José M Quintana; Cristóbal Esteban; Irantzu Barrio; Susana Garcia Gutierrez; Nerea Gonzalez; Inmaculada Arostegui; Iratxe Lafuente; Marisa Bare; Juan Antonio Blasco; Silvia Vidal. The IRYSS-COPD appropriateness study: objectives, methodology, and description of the prospective cohort. BMC health services research. 11, pp. 322. 24/11/2011. ISSN 1472-6963

Type of production: Scientific paper

Corresponding author: No

Impact source: ISI

Impact index in year of publication: 1,712

Category: Science Edition - HEALTH CARE SCIENCES & SERVICES

Journal in the top 25%: No

- 34** Joaquín Burgos; Manel Lujan; Vicenç Falcó; Ana Sánchez; Mireia Puig; Astrid Borrego; Dionisia Fontanals; Ana M Planes; Albert Pahissa; Jordi Rello. The spectrum of pneumococcal empyema in adults in the early 21st century. *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*. 53 - 3, pp. 254 - 261. 01/08/2011. ISSN 1537-6591
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 8,886
Category: Immunology
Journal in the top 25%: Yes
- 35** M Luján; M Gallego; Y Belmonte; D Fontanals; J Vallès; T Lisboa; J Rello. Influence of pneumococcal serotype group on outcome in adults with bacteraemic pneumonia. *The European respiratory journal*. 36 - 5, pp. 1073 - 1079. 11/2010. ISSN 1399-3003
Type of production: Scientific paper
- 36** Jordi Rello; Manel Luján; Miguel Gallego; Jordi Vallés; Yolanda Belmonte; Dionisia Fontanals; Emili Diaz; Thiago Lisboa. Why mortality is increased in health-care-associated pneumonia: lessons from pneumococcal bacteremic pneumonia. *Chest*. 137 - 5, pp. 1138 - 1144. 05/2010. ISSN 1931-3543
Type of production: Scientific paper
- 37** Christian Domingo; Elisa Canturri; Amalia Moreno; Humildad Espuelas; Laura Vigil; Manel Luján. Optimal clinical time for reliable measurement of transcutaneous CO2 with ear probes: counterbalancing overshoot and the vasodilatation effect. *Sensors (Basel, Switzerland)*. 10 - 1, pp. 491 - 500. (Switzerland): 2010. ISSN 1424-8220
Type of production: Scientific paper
- 38** Christian Domingo; Lluís Blanch; Gaston Murias; Manel Luján. State-of-the-art sensor technology in Spain: invasive and non-invasive techniques for monitoring respiratory variables. *Sensors (Basel, Switzerland)*. 10 - 5, pp. 4655 - 4674. (Switzerland): 2010. ISSN 1424-8220
Type of production: Scientific paper
- 39** Javier Catalán; Manel Luján. Approach to Home Mechanical Ventilation Prevalence: Databases or Surveys?. *Respiratory Care*. 63, pp. 491 - 492.
Type of production: Scientific paper
Format: Journal
- 40** Manel Luján; Miguel Gallego. Pneumococcal Vaccination: Should We Kill the Enemy or Just Disarm It?. *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*. 62 - 2, pp. 148 - 149. 15/01/2016. ISSN 1537-6591
Type of production: comentario
Format: Journal
Impact source: ISI
Category: Immunology
Impact index in year of publication: 8,886
Journal in the top 25%: Yes
- 41** Manel Lujan; Antonio M Esquinas. Ambulatory adaptation of non-invasive ventilation in motor neuron disease: where limits of effectiveness end. *Amyotrophic lateral sclerosis & frontotemporal degeneration*. 16 - 1-2, pp. 137 - 138. 03/2015. ISSN 2167-9223
Type of production: comentario
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CLINICAL NEUROLOGY
Impact index in year of publication: 2,405
Journal in the top 25%: No



- 42** Manel Luján; Xavier Pomares. Noninvasive mechanical ventilation. Reflections on home monitoring. Archivos de bronconeumologia. 50 - 3, pp. 85 - 86. (Spain): 03/2014. ISSN 1579-2129
Type of production: Editorial **Format:** Journal
Corresponding author: Yes
Impact source: ISI **Category:** Science Edition - CRITICAL CARE MEDICINE
Impact index in year of publication: 3,311 **Journal in the top 25%:** No
- 43** Begum Ergan; Simon Oczkowski; Bram Rochweg; Annalisa Carlucci; Michelle Chatwin; Enrico Clini; Mark Elliott; Jesus Gonzalez Bermejo; Nicholas Hart; Manel Lujan; Jacek Nasilowski; Stefano Nava; Jean Louis Pepin; Lara Pisani; Jan Hendrik Storre; Peter Wijkstra; Thomy Tonia; Jeanette Boyd; Raffaele Scala; Wolfram Windisch. European Respiratory Society Guideline on Long-term Home Non-Invasive Ventilation for Management of Chronic Obstructive Pulmonary Disease. The European respiratory journal. 29/08/2019. ISSN 1399-3003
- 44** Claudio Rabec; Javier Sayas; Manel Luján. One Plus One Might not make Two: Patient-Ventilator Interaction in Non-Invasive Ventilation. Who Does What?. Archivos de bronconeumologia. 55 - 8, pp. 403 - 406. (Spain): 08/2019. ISSN 1579-2129
- 45** Jesus Gonzalez Bermejo; Jean-Paul Janssens; Claudio Rabec; Christophe Perrin; Frédéric Lofaso; Bruno Langevin; Annalisa Carlucci; Manel Lujan. Framework for patient-ventilator asynchrony during long-term non-invasive ventilation. Thorax. 74 - 7, pp. 715 - 717. 07/2019. ISSN 1468-3296
- 46** Cristina Lalmolda; Hector Prados; Georgina Mateu; Mariona Noray; Xavier Pomares; Manel Luján. Titration of Mechanical Insufflation-Exsufflation Optimal Pressure Combinations in Neuromuscular Diseases by Flow/Pressure Waveform Analysis. Archivos de bronconeumologia. 55 - 5, pp. 246 - 251. (Spain): 05/2019. ISSN 1579-2129
- 47** Inmaculada Arostegui; María José Legarreta; Irantzu Barrio; Cristobal Esteban; Susana Garcia Gutierrez; Urko Aguirre; José María Quintana. A Computer Application to Predict Adverse Events in the Short-Term Evolution of Patients With Exacerbation of Chronic Obstructive Pulmonary Disease. JMIR medical informatics. 7 - 2, pp. e10773. (Canada): 17/04/2019. ISSN 2291-9694
- 48** Manel Luján; Cristina Lalmolda; Begüm Ergan. Basic Concepts for Tidal Volume and Leakage Estimation in Non-Invasive Ventilation. Turkish thoracic journal. 20 - 2, pp. 140 - 146. (Turkey): 01/04/2019. ISSN 2149-2530
- 49** Manel Lujan; Miguel Gallego; Jordi Rello. Healthcare-associated infections. A useful concept?. Current opinion in critical care. 15 - 5, pp. 419 - 424. 10/2009. ISSN 1531-7072
- 50** C Feldman; S Alane; V L Yu; G A Richards; A Ortqvist; J Rello; C C C Chiou; M B F Chedid; M M Wagener; K P Klugman. Severity of illness scoring systems in patients with bacteraemic pneumococcal pneumonia: implications for the intensive care unit care. Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases. 15 - 9, pp. 850 - 857. 09/2009. ISSN 1469-0691
- 51** Jordi Rello; Thiago Lisboa; Manel Lujan; Miguel Gallego; Cordelia Kee; Ian Kay; Diego Lopez; Grant W Waterer. Severity of pneumococcal pneumonia associated with genomic bacterial load. Chest. 136 - 3, pp. 832 - 840. 09/2009. ISSN 1931-3543
- 52** Jordi Rello; Alejandro Rodriguez; Thiago Lisboa; Miguel Gallego; Manel Lujan; Richard Wunderink. PIRO score for community-acquired pneumonia: a new prediction rule for assessment of severity in intensive care unit patients with community-acquired pneumonia. Critical care medicine. 37 - 2, pp. 456 - 462. 02/2009. ISSN 1530-0293



- 53** Manel Lujan; Elisa Canturri; Amalia Moreno; Maribel Arranz; Laura Vigil; Christian Domingo. Capnometry in spontaneously breathing patients: the influence of chronic obstructive pulmonary disease and expiration maneuvers. *Medical science monitor : international medical journal of experimental and clinical research*. 14 - 9, pp. CR485. 09/2008. ISSN 1643-3750
- 54** Cordelia Kee; Silvano Palladino; Ian Kay; Todd M Pryce; Ronan Murray; Jordi Rello; Miquel Gallego; Manel Lujan; Carmen Muñoz Almagro; Grant W Waterer. Feasibility of real-time polymerase chain reaction in whole blood to identify *Streptococcus pneumoniae* in patients with community-acquired pneumonia. *Diagnostic microbiology and infectious disease*. 61 - 1, pp. 72 - 75. 05/2008. ISSN 0732-8893
- 55** Manel Luján; Amalia Moreno; Carmen Veigas; Concepción Montón; Xavier Pomares; Christian Domingo. Non-invasive home mechanical ventilation: effectiveness and efficiency of an outpatient initiation protocol compared with the standard in-hospital model. *Respiratory medicine*. 101 - 6, pp. 1177 - 1182. 06/2007. ISSN 0954-6111
- 56** Mariona Noray Malgrat; Gina Mateu; Manel Luján. [Lung collapse caused by hiatal hernia secondary to manual abdominal compression]. *Archivos de bronconeumología*. 43 - 1, pp. 53. (Spain): 01/2007. ISSN 0300-2896
- 57** Manel Luján; Miguel Gallego; Jordi Rello. Optimal therapy for severe pneumococcal community-acquired pneumonia. *Intensive care medicine*. 32 - 7, pp. 971 - 980. 07/2006. ISSN 0342-4642
- 58** Ch Domingo; E Canturri; M Luján; A Moreno; H Espuelas; A Marín. [Transcutaneous measurement of partial pressure of carbon dioxide and oxygen saturation: validation of the SenTec monitor]. *Archivos de bronconeumología*. 42 - 5, pp. 246 - 251. (Spain): 05/2006. ISSN 0300-2896
- 59** Manel Lujan; Miguel Gallego; Dionisia Fontanals; Dolors Mariscal; Jordi Rello. Prospective observational study of bacteremic pneumococcal pneumonia: Effect of discordant therapy on mortality. *Critical care medicine*. 32 - 3, pp. 625 - 631. 03/2004. ISSN 0090-3493
- 60** Manel Luján; Montserrat Bosque; Rosa M Mirapeix; M Teresa Marco; Oscar Asensio; Christian Domingo. Late-onset congenital cystic adenomatoid malformation of the lung. Embryology, clinical symptomatology, diagnostic procedures, therapeutic approach and clinical follow-up. *Respiration; international review of thoracic diseases*. 69 - 2, pp. 148 - 154. (Switzerland): 2002. ISSN 0025-7931
- 61** B Mari; C Montón; D Mariscal; M Luján; M Sala; C Domingo. Pulmonary nocardiosis: clinical experience in ten cases. *Respiration; international review of thoracic diseases*. 68 - 4, pp. 382 - 388. (Switzerland): 2001. ISSN 0025-7931

Works submitted to national or international conferences

- 1** **Title of the work:** Evolució del pacient amb exacerbació greu de la MPOC i requeriment de VMNI
Name of the conference: XXXII Diada Pneumològica
City of event: Sant Benet del Bages, Catalonia, Spain
Date of event: 04/04/2014
End date: 05/04/2014
- 2** **Title of the work:** Influència de les fuites aleatòries en la modalitat de ventilació dual interbreath
Name of the conference: XXXII Diada Pneumològica
City of event: Sant Benet del Bages, Catalonia, Spain
Date of event: 04/04/2014
End date: 05/04/2014



- 3** **Title of the work:** Efecte de les fuites no lineals en la fiabilitat de la monitorització en VMNI.
City of event: Sitges, Catalonia, Spain
Date of event: 12/04/2013
End date: 13/04/2013
- 4** **Title of the work:** Características de las neumonías relacionadas con la asistencia sanitaria (HCAP) Estudio comparativo entre HCAP hospitalizada en sala convencional y UCI.
Date of event: 06/2012
- 5** **Title of the work:** Resultados de un estudio experimental acerca de cómo evitar la influencia del nivel de fuga en la determinación del volumen corriente en VMNI
City of event: Madrid,
Date of event: 06/2012
Manel Luján Torné.
- 6** **Title of the work:** Resultados de un estudio experimental acerca de cómo evitar la influencia del nivel de fuga en la determinación del volumen corriente en VMNI
City of event: Community of Madrid, Spain
Date of event: 06/2012
- 7** **Title of the work:** Efectividad y tolerancia de omalizumab en pacientes con asma grave no alérgico.
City of event: Oviedo,
Date of event: 17/07/2011
End date: 20/06/2011
Manel Luján Torné.
- 8** **Title of the work:** Afectació respiratòria en comptocòrnia.
Name of the conference: XXIX Diada Pneumològica.
Corresponding author: Yes
City of event: Badalona, Catalonia, Spain
Date of event: 2011
Manel Luján Torné.
- 9** **Title of the work:** Es necesaria la medición bilateral del sniff test. Análisis comparativo en sujetos sin enfermedad neuromuscular.
Date of event: 06/2010
- 10** **Title of the work:** Seguretat de la gastrostomía radiològica percutània en pacients amb ELA amb afectació respiratòria i bulbar avançada.
City of event: Girona, Catalonia, Spain
Date of event: 03/2010



R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Comité científico y de investigación Sociedad Española de Neumología y Cirugía torácica
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Sociedad Española de Neumología y Cirugía Torácica **Type of entity:** Associations and Groups
Start-End date: 2010 - 2015
- 2** **Committee title:** Comité científico y de Investigación
Primary (UNESCO code): 320000 - Medical Science
Affiliation entity: Corporació Sanitària Parc Taulí **Type of entity:** Healthcare Institutions
Start-End date: 2009 - 2015
- 3** **Committee title:** Programa integrado de investigación en ventilación mecánica no invasiva
Primary (UNESCO code): 240000 - Life Science
Start date: 2019