



Research in European Pediatric Emergency Medicine

# Know us in 5 minutes

*Updated: 2021, March 30<sup>th</sup>*



Research in European Pediatric Emergency Medicine

# Mission and Vision



# Mission and Vision

- **Mission:**

- to improve emergency care for children through high standard national, multinational and multicentre research. In this way, REPEM will help the EuSEM PEM Section achieve the objectives proposed



- **Vision - REPEM facilitates:**

- The development of European multicenter projects related with the PEM
- The training of EuSEM PEM Section research members.
- The answer to doubts from members of the EuSEM PEM Section.
- The development of a research project proposed with any member of the EuSEM PEM Section.



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# Steering Committee and structure



# Steering Committee

**CHAIRMAN:** Rianne Oostenbrink  
Sophia's Children's Hospital – Erasmus MC  
(Rotterdam, The Netherlands)

**SECRETARY:** Silvia Bressan  
University of Padova (Padova, Italy)

## RESEARCH RESPONSIBLES

Liviana Da Dalt  
Department of Woman's and Child's Health,  
University of Padova (Padova, Italy)

Alain Gervaix  
Hôpitaux Universitaires de Genève  
Genève (Switzerland)

Ruud Nijman  
St Mary's Hospital  
London (England, UK)

Henriette Moll  
Sophia's Children's Hospital – Erasmus MC  
(Rotterdam, The Netherlands)

Kristina Keitel  
Boston Children's Hospital and Scientist at  
Swiss TPH/ Harvard University

**PAST CHAIRMAN:** Santi Mintegi  
**PAST SECRETARY:** Borja Gómez  
Cruces University Hospital (Barakaldo, Basque Country, Spain)



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# First steps of the Network



# Nice – the first Meeting

- **First meeting:**
  - Nice. 2005.
  - 3<sup>rd</sup> Mediterranean Emergency Medicine Congress in collaboration with AAE
  - Five pediatric emergency physicians. Hezi Waisman

# Crete - The foundation

- **Creation:**
  - Crete. 2006.
  - EuSEM meeting
  - PEDs within the scope of EuSEM (Europe and Middle East): Belgium, Hungary, Italy, Israel, Saudi Arabia, Spain, Turkey, and the UK.



# First paper

## Pediatric Emergency Care in Europe A Descriptive Survey of 53 Tertiary Medical Centers

*Santiago Mintegi, MD,\* Itai Shavit, MD,† Javier Benito, MD,\* and the REPEM group  
(Research in European Paediatric Emergency Medicine)*

*Pediatric Emergency Care* • Volume 24, Number 6, June 2008



**Objective:** To examine determinants of quality of care provided by pediatric emergency departments (PEDs) in tertiary European centers.

**Methods:** Analysis of questionnaires was sent to directors of PEDs. Questionnaires were sent through the pediatric research group of the European Society for Emergency Medicine. Three major descriptive categories were included in a 28-point questionnaire: institution's pediatric inpatient capabilities, scope of services, and medical staff education and structure.

**Results:** Sixty-five questionnaires were completed in full. Fifty-three tertiary medical centers from 14 countries were included in the study. In 86.8% of these institutions, the PED is separated from the adult emergency department; 91% have a pediatric intensive care unit, and 72% have an in-patient pediatric trauma service. Eighty-eight percent of the PEDs have incorporated triage protocols. Social service was not available in 17% of the departments. Sedation for painful procedures is provided by the staff in 77% of the PEDs. Only 24% of the PED medical directors have been formally trained in pediatric emergency medicine. In 17% of the departments, there is a 24-hour 7-day residents' coverage with no attending pediatrician or pediatric emergency medicine-trained physician.

**Conclusions:** According to this pilot study, the basic services provided by tertiary PEDs in Europe appear to be appropriate. Physicians training level and staffing may not be adequate to achieve optimal patient outcome.

# Second paper

## Paediatric community-acquired septic shock: results from the REPEM network study

P. Van de Voorde • B. Emerson • B. Gomez • J. Willems • D. Yildizdas • I. Iglowstein • E. Kerkhof • N. Mullen • C. R. Pinto • T. Detaille • N. Qureshi • J. Naud • J. De Dooy • R. Van Lancker • A. Dupont • N. Boelsma • M. Mor • D. Walker • M. Sabbe • S. Hachimi-Idrissi • L. Da Dalt • H. Waisman • D. Biarent • I. Maconochie • H. Moll • J. Benito

Eur J Pediatr (2013) 172:667–674

DOI 10.1007/s00431-013-1930-x

**Conclusion** The outcome in our sample was very good. Many children received treatment early in their disease course, so avoiding subsequent intensive care. While certain variables predispose children to become septic and shocked, in our sample, only measures of organ dysfunction and concomitant treatment proved to be significantly related with outcome. We argue why future studies should rather be large multinational prospective observational trials and not necessarily randomised controlled trials.

**Table 4** Bacteria or viruses effectively isolated, in absolute numbers, as well as the respective number of severe outcome cases

		Severe outcome
<b>Gram-positive, n=37</b>		
<i>Streptococcus A</i>	5	0
<i>Streptococcus B</i>	3	1
<i>Streptococcus pneumoniae</i>	11	1
<i>Staphylococcus aureus</i>	5	1
<i>Staphylococcus epidermidis</i>	7	1
Other Gram-positives	6	0
<b>Gram-negative, n= 61</b>		
<i>Neisseria meningitidis</i>	25	1
<i>Escherichia coli</i>	15	0
<i>Klebsiella spp.</i>	4	1
<i>Pseudomonas spp.</i>	6	1
Other Gram-negatives	11	0
<b>VIRAL n= 19</b>		
Influenza H1N1	5	0
Proven viral origin	14	0
<b>Multiple virus and/or bacteria isolated, n= 9</b>		
Unknown, n=70 (of which presumed viral n=15)		3

# Istanbul. EAPS 2012

- Need to change



The 4<sup>th</sup> Congress of the  
**EUROPEAN ACADEMY OF PAEDIATRIC  
SOCIETIES**  
**EAPS**  
October 5-9, 2012 Istanbul, Turkey

21  
CME Credits

European Society of Paediatric and Neonatal Intensive Care  
European Academy of Paediatrics  
European Society for Paediatric Research/European Society of Neonatology

Information at your fingertips  
[Click here](#)

The banner features a blue background with white text for the event details. A gold starburst contains the number '21' and 'CME Credits'. Three logos are displayed in red, green, and yellow boxes. On the right, a white box shows a hand pointing at a smartphone screen with the text 'Information at your fingertips' and a red 'Click here' link.

- New structure
- Steering Committee
- Procedures for submitting and approving study proposals



# ICEM. Dublin



Relationship with other developed  
multicenter research networks

14<sup>th</sup> ICEM

2012  
DUBLIN  
27-30 June



International  
Conference on  
Emergency Medicine

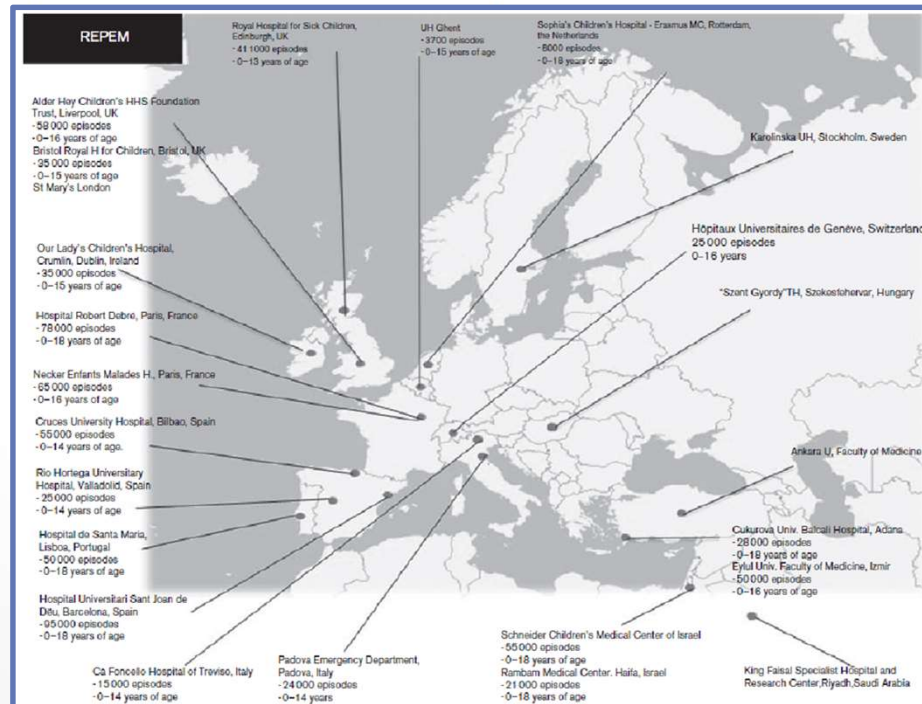


# Third paper

## From cradle to adolescence: the development of Research in European Pediatric Emergency Medicine

Santiago Mintegi<sup>a</sup>, Mark D. Lyttle<sup>b</sup>, Ian K. Maconochie<sup>c</sup>, Javier Benito<sup>a</sup>, Alain Gervais<sup>d</sup>, Henriette Moll<sup>e</sup>, Itai Shavit<sup>g</sup>, Liviana Da Dalt<sup>f</sup>, Yehezkel Waisman<sup>h</sup> and on behalf of Research in European Pediatric Emergency Medicine (REPEM) Network

European Journal of Emergency Medicine 2014, Vol 21 No 1



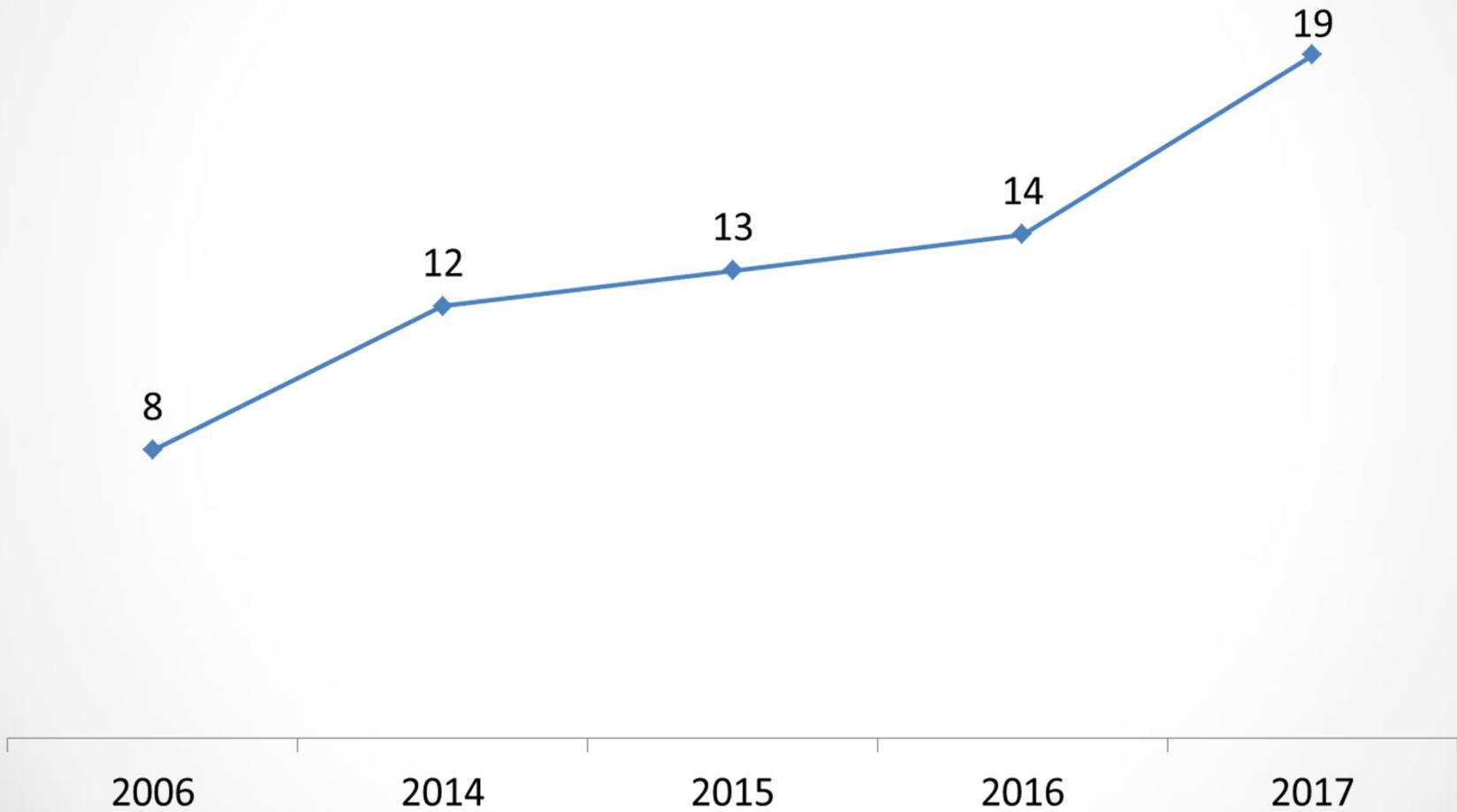


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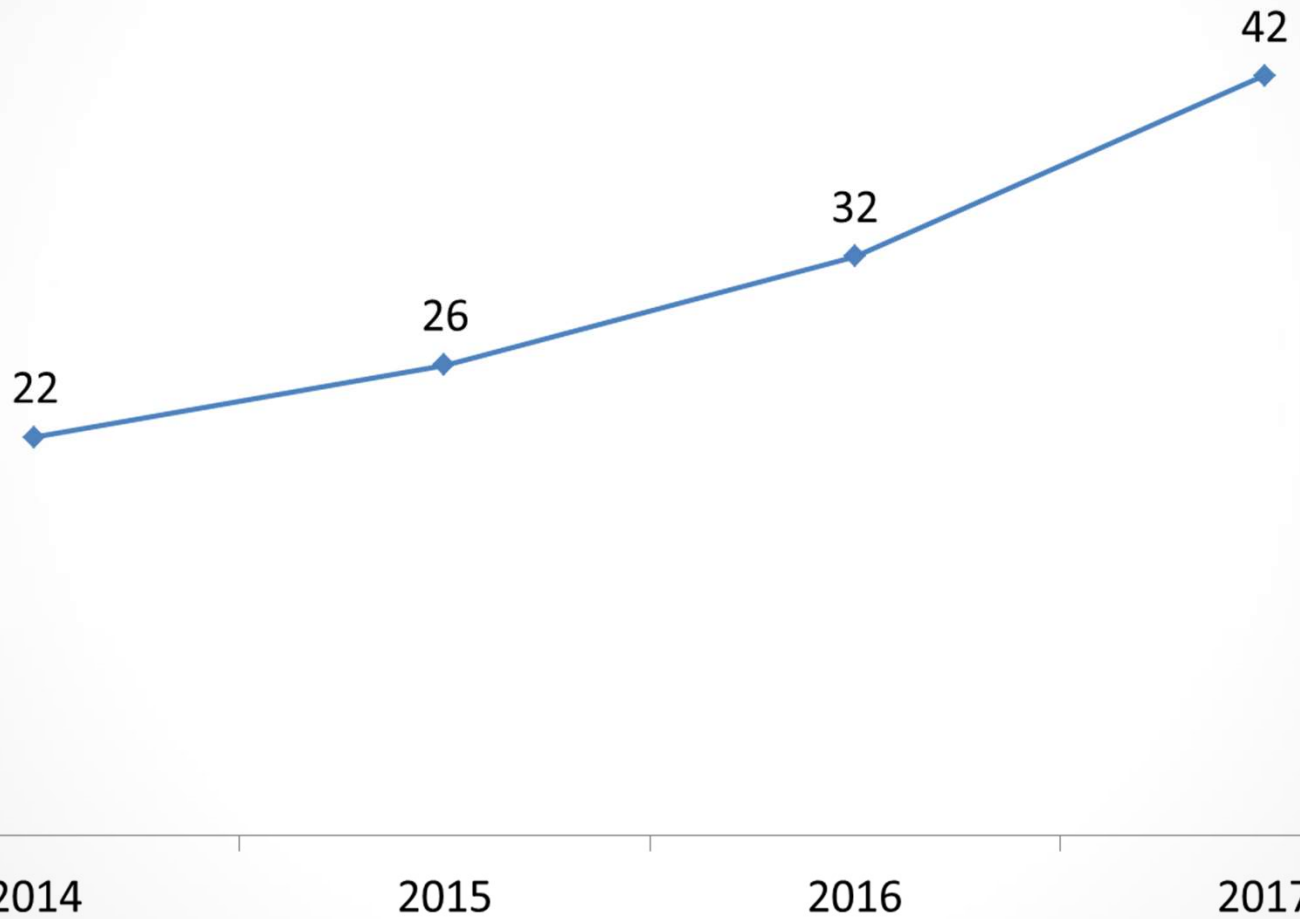
# REPEM members and participating EDs

...

# # countries. REPEM

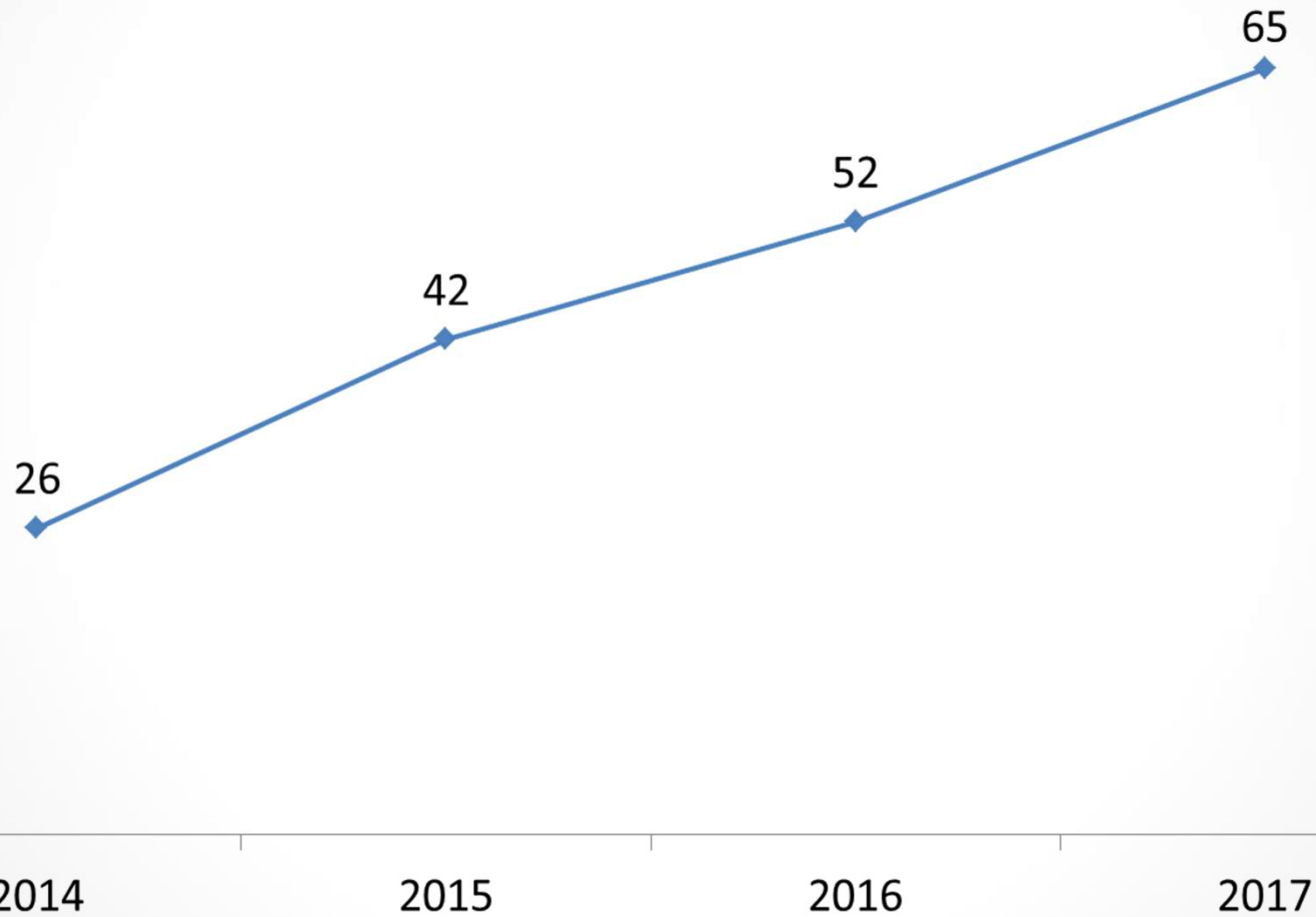


# # centers. REPEN

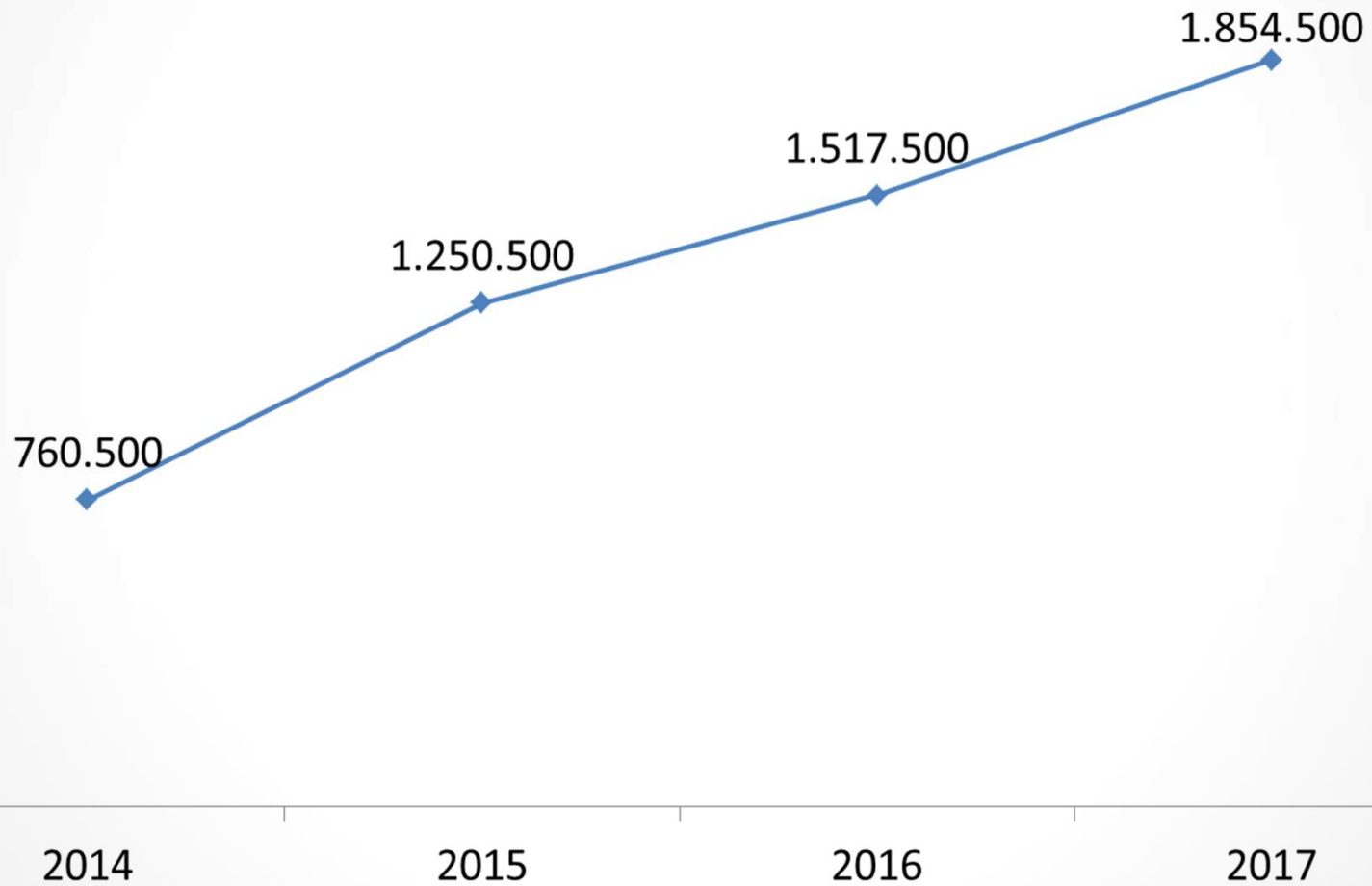




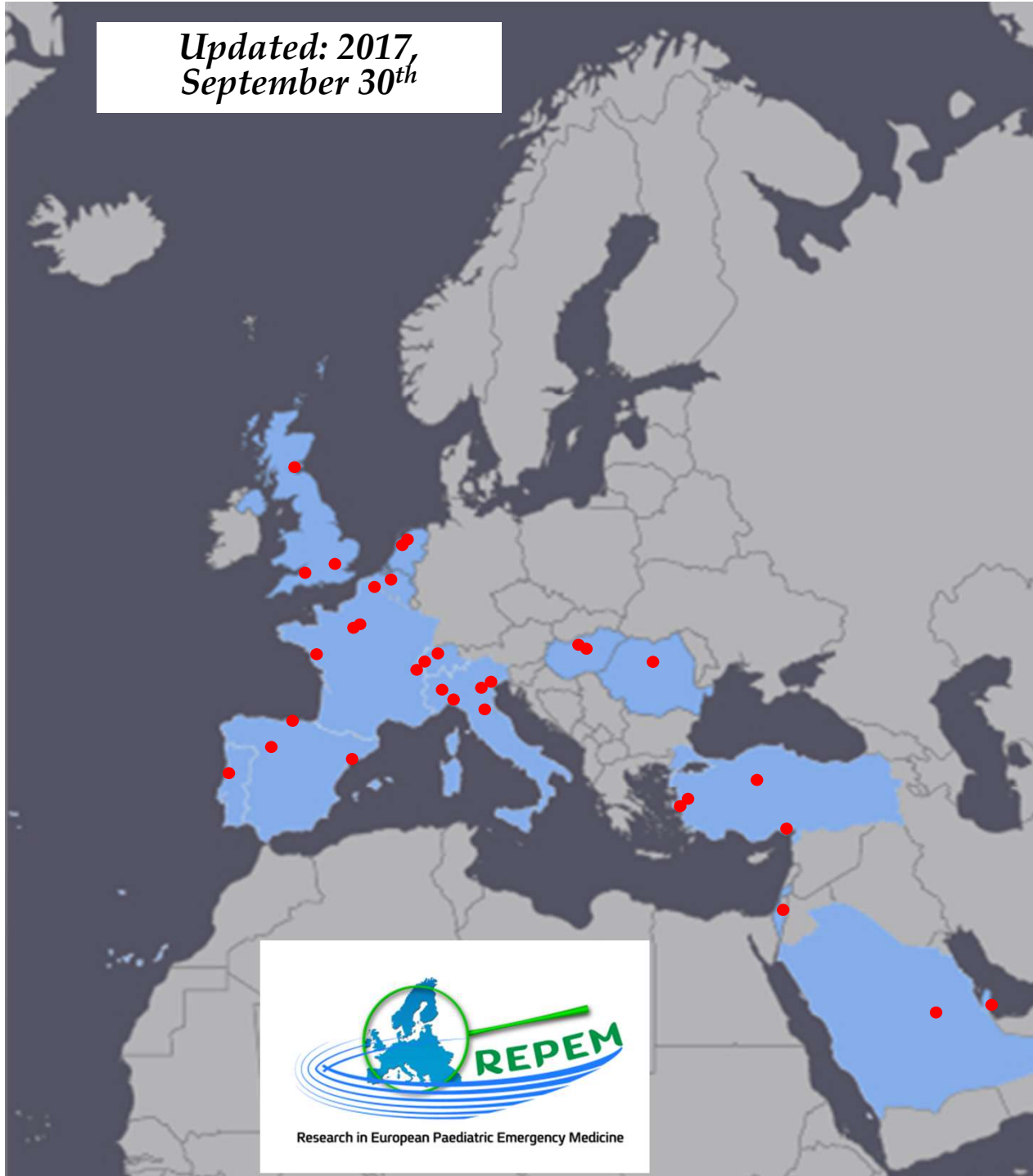
# # researchers. REPEM



# Episodes/year



*Updated: 2017,  
September 30<sup>th</sup>*



## Participating Centers

<b>Belgium</b>	University Hospital Ghent
<b>France</b>	Necker Enfants Malades H., Paris
	Hôpital Robert Debré, Paris
	Hôpital Roger Salengro, Lille
	Hôpital femme-enfant-adolescent, Nantes
<b>Hungary</b>	Szent Gyorgy Teaching Hospital, Szekesfehervar
	Heim Pal Children's Hospital, Budapest
<b>Israel</b>	Schneider Children's Medical Center of Israel, Petah Tikva
<b>Italy</b>	Padova Emergency Department
	Cà Foncello Hospital of Treviso
	Azienda Ospedaliero Universitaria Meyer, Firenze
	G Gaslini Children's Hospital, Genova
	Regina Margherita-Città della Salute, Torino
<b>Portugal</b>	Hospital Pediátrico, CHUC, Coimbra
<b>Qatar</b>	Hamad Medical Corporation, Doha
<b>Romania</b>	Tirgu Mures Emergency Clinical County Hospital
<b>Saudi Arabia</b>	King Faisal Specialist Hospital and Research Center. Riyadh
<b>Spain</b>	Rio Hortega University Hospital, Valladolid
	Cruces University Hospital, Bilbao
	Hospital Universitari Sant Joan de Déu, Barcelona
<b>Switzerland</b>	Hôpital de l'Enfance, CHUV. Lausanne
	Hôpitaux Universitaires de Genève
	University Hospital Bern
<b>The Netherlands</b>	Sophia's Children's Hospital – Erasmus MC Rotterdam
	Onze Lieve Vrouwe Gasthuis, Amsterdam
<b>Turkey</b>	Ihsan Dogramaci Children's Hospital, Hacettepe, Ankara
	Cukurova Univ. Balcali Hospital, Adana
	TC SB Izmir Tepecik Teaching and Research Hospital
	Ege University School of Medicine, Izmir
<b>United Kingdom</b>	Bristol Royal H for Children, Bristol
	St Mary's Hospital, London
	Royal Hospital for Sick Children, Edinburgh



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# New study proposals – to be submitted twice a year



See: website 'Studies and proposals'



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# Relationship with other Networks





# Pediatric Emergency Research Network



Conducting High Priority, High-Quality Research in Pediatric Emergency Care



RIDEPLA  
Red de Investigación y Desarrollo de la Emergencia Pediátrica Latinoamericana



Pediatric Emergency Research in the UK and Ireland



RISEUP  
SPERG



Pediatric Research in Emergency Departments International Collaborative



Research in European Pediatric Emergency Medicine



Pediatric Emergency Medicine Collaborative Research Committee





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