

## SCIENTIFIC AND TECHNOLOGICAL PROFILE OF THE GROUP

**RICORS Code**  
RD21/0012/0025

<b>Thematic area:</b>	Prevention of cardiac arrest and promoting of bystander resuscitation in/for children
<b>Programme name:</b>	Primary care promotion of maternal, child and women's health for prevention of adult chronic diseases
<b>Group leader:</b>	Antonio Rodriguez Nuñez
<b>Applicant Institution:</b>	University of Santiago de Compostela (USC) and Galicia's Public Health Service (SERGAS)
<b>Working Institution:</b>	USC and SERGAS
<b>PI Work Institution:</b>	Pediatric Area. Hospital Clinico Universitario de Santiago de Compostela

### Participants

Researcher	Family Name (s)	First Name (s)	Work Institution	Position
1	Rodríguez Núñez	Antonio	USC and SERGAS	Statutory staff
2	Abelairas Gómez	Cristian	University of Santiago	Contracted
3	Varela Casal	Cristina	University of Vigo	Contracted
4	Martínez Isasi	Santiago	University of Santiago	Contracted
5	Barcala Furelos	Cristian	University of Vigo	Statutory staff
6	Carballo Fazanes	Aida	University of Santiago	Fellow
7				Select
8				Select

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## PUBLICATIONS

Up to twenty selected publications related to the RICORS's Thematic Area (published in the last five years)

1. KIDS SAVE LIVES in schools: cross-sectional survey of schoolteachers. Abelairas-Gómez C, Schroeder DC, Carballo-Fazanes A, Böttiger BW, López-García S, Martínez-Isasi S, Rodríguez-Núñez A. Eur J Pediatr. 2021 Mar 8. doi: 10.1007/s00431-021-03971-x. PMID: 33683463
2. [Learning to resuscitate at school. Study in 8-12 year-old schoolchildren]. Martínez-Isasi S, Abelairas-Gómez C, Pichel-López M, Barcala-Furelos R, Varela-Casal C, Vázquez-Santamariña D, Sánchez-Santos L, Rodríguez-Núñez A. An Pediatr (Barc). 2020 Nov 5;S1695-4033(20)30436-7. doi: 10.1016/j.anpedi.2020.09.018. PMID: 33162361
3. [Can we train the chain of survival while playing? Validation of the tool «Rescubex»]. Otero-Agra M, Varela-Casal C, Castillo-Pereiro N, Casillas-Cabana M, San Román-Mata S, Barcala-Furelos R, Rodríguez-Núñez A. An Pediatr (Barc). 2020 Sep 9;S1695-4033(20)30259-9. doi: 10.1016/j.anpedi.2020.07.009. PMID: 32919930
4. [Schoolchildren with chronic diseases; what are teachers worried about?]. Gómez Silva G, Carollo Motellón M, Abelairas Gómez C, Sánchez Santos L, García Doval FM, Rodríguez Núñez A. An Pediatr (Barc). 2020 Dec;93(6):374-379. doi: 10.1016/j.anpedi.2020.02.004. Epub 2020 Mar 20. PMID: 32205056
5. [School teachers should know how and teach to save lives to the kids. The inclusion of basic life support training in university degrees whose aim is to train teachers. BLS mandatory in school & university]. Abelairas-Gómez C, Carballo-Fazanes A, López-García S, Martínez-Isasi S, Rodríguez-Núñez A. An Pediatr (Barc). 2020 May;92(5):319-320. doi: 10.1016/j.anpedi.2019.11.010. PMID: 31932260
6. [Knowledge and attitudes on first aid and basic life support of Primary and Preschool teachers and parents]. Abelairas-Gómez C, Carballo-Fazanes A, Martínez-Isasi S, López-García S, Rico-Díaz J, Rodríguez-Núñez A. An Pediatr (Barc). 2020 May;92(5):268-276. doi: 10.1016/j.anpedi.2019.10.010. PMID: 31870834
7. Let the kids play: gamification as a CPR training methodology in secondary school students. A quasi-experimental manikin simulation study. Otero-Agra M, Barcala-Furelos R, Besada-Saavedra I, Peixoto-Pino L, Martínez-Isasi S, Rodríguez-Núñez A. Emerg Med J. 2019 Nov;36(11):653-659. doi: 10.1136/emered-2018-208108. PMID: 31409636
8. [Basic life support knowledge of the future of the Infant and Primary School teacher. An unresolved problem in university study plans?]. Abelairas-Gómez C, López-García S, Martínez-Isasi S, Carballo-Fazanes A, Rodríguez-Núñez A. An Pediatr (Barc). 2019 Nov;91(5):344-345. doi: 10.1016/j.anpedi.2018.10.010. PMID: 30501936
9. Evaluation of the thoracic compression technique using APPs. Do they help or hinder cardiopulmonary resuscitation? Fernández-Méndez F, Barcala-Furelos R, Otero-Agra M, Fernández-Méndez M, Santos-Folgar M, Rodríguez-Núñez A. Med Intensiva. 2020 Mar;44(2):72-79. doi: 10.1016/j.medin.2018.07.015. PMID: 30270143
10. Schoolteachers as candidates to be basic life support trainers: A simulation trial. Jorge-Soto C, Abilleira-González M, Otero-Agra M, Barcala-Furelos R, Abelairas-Gómez C, Szarpak Ł, Rodríguez-Núñez A. Cardiol J. 2019;26(5):536-542. doi: 10.5603/CJ.a2018.0073. PMID: 30009374
11. A new chest compression technique in infants. Rodríguez-Ruiz E, Guerra Martín V, Abelairas-Gómez C, Sampedro Vidal F, Gómez González C, Barcala-Furelos R, Rodríguez-Núñez A. Med Intensiva. 2019 Aug-Sep;43(6):346-351. doi: 10.1016/j.medin.2018.04.010. PMID: 29903635
12. What biomechanical factors are more important in compression depth for children lifesavers? A randomized crossover study. Otero-Agra M, Rodríguez-Núñez A, Rey E, Abelairas-Gómez C, Besada-Saavedra I, Antón-Ogando AP, López-García S, Martín-Conty JL, Barcala-Furelos R. Am J Emerg Med. 2019 Jan;37(1):100-108. doi: 10.1016/j.ajem.2018.05.003. PMID: 29866418
13. [Ventilation during cardiopulmonary resuscitation in the infant. Mouth to mouth and nose, or bag-valve-mask? A quasi-experimental study]. Santos-Folgar M, Otero-Agra M, Fernández-Méndez F, Hermo-Gonzalo MT, Barcala-Furelos R, Rodríguez-Núñez A. An Pediatr (Barc). 2018 Nov;89(5):272-278. doi: 10.1016/j.anpedi.2017.12.014. PMID: 29429863
14. [A first step to teaching basic life support in schools: Training the teachers]. Pichel López M, Martínez-Isasi S, Barcala-Furelos R, Fernández-Méndez F, Vázquez Santamariña D, Sánchez-Santos L, Rodríguez-Núñez A; en nombre del Grupo de trabajo Proyecto ANXOS. An Pediatr (Barc). 2018 Nov;89(5):265-271. doi: 10.1016/j.anpedi.2017.11.002. PMID: 29233493
15. Implementation of educational programs to prevent drowning. What can be done in nursery school? Barcala-Furelos R, Carbia-Rodríguez P, Peixoto-Pino L, Abelairas-Gómez C, Rodríguez-Núñez A. Med Intensiva. 2019 Apr;43(3):180-182. doi: 10.1016/j.medin.2017.08.005. PMID: 29054299
16. Learning and Treatment of Anaphylaxis by Laypeople: A Simulation Study Using Pupilar Technology. Fernandez-Mendez F, Saez-Gallego NM, Barcala-Furelos R, Abelairas-Gomez C, Padron-Cabo A, Perez-Ferreiros A, Garcia-Magan C, Moure-Gonzalez J, Contreras-Jordan O, Rodriguez-Nuñez A. Biomed Res Int. 2017;2017:9837508. doi: 10.1155/2017/9837508. PMID: 28758128
17. Brief training in automated external defibrillation use for persons with down syndrome. Jorge-Soto C, Barcala-Furelos R, Gómez-González C, Leborans-Iglesias P, Campos-Varela I, Rodríguez-Núñez A. Resuscitation. 2017 Apr;113:e5-e6. doi: 10.1016/j.resuscitation.2017.01.012. PMID: 28130093
18. Automated external defibrillation skills by naive schoolchildren. Jorge-Soto C, Abelairas-Gómez C, Barcala-Furelos R, Garrido-Viñas A, Navarro-Patón R, Muiño-Piñeiro M, Díaz-Pereira MP, Rodríguez-Núñez A. Resuscitation. 2016 Sep;106:37-41. doi: 10.1016/j.resuscitation.2016.06.007. PMID: 27353288

19. [Learning to use semiautomatic external defibrillators through audiovisual materials for schoolchildren]. Jorge-Soto C, Abelairas-Gómez C, Barcala-Furelos R, Gregorio-García C, Prieto-Saborit JA, Rodríguez-Núñez A. *Emergencias*. 2016 Abr;28(2):103-108.PMID: 29105431
20. Out-of-hospital cardiac arrest (OHCA) attended by mobile emergency teams with a physician on board. Results of the Spanish OHCA Registry (OSHCAR). Rosell-Ortiz F, Escalada-Roig X, Fernández Del Valle P, Sánchez-Santos L, Navalpotro-Pascual JM, Echarri-Sucunza A, Adsuar-Quesada JM, Cenicerros-Rozalén I, Ruiz-Azpiazú JI, Ibarguren-Olalde K, López-Cabeza N, Mier-Ruiz MV, Martín-Sánchez E, Martínez Del Valle M, Inza-Muñoz G, Cordero Torres JA, García-Ochoa MJ, Cortés-Ramas JA, Canabal-Berlanga R, Zoyo López-Navarro R, López-Messa JB, García Del Águila J, Alonso-Moreno D, Pozo-Pérez C, Bravo-Castello J, Ramos-García N, Gómez-Larrosa I, Mellado-Vergel FJ. *Resuscitation*. 2017 Apr;113:90-95. doi: 10.1016/j.resuscitation.2017.01.029. PMID: 28202420

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## INTERNATIONAL AND NATIONAL RESEARCH PROJECTS

(Funded in the last five years)

Proyecto: APRENDIZAJE DE LA REANIMACIÓN CARDIOPULMONAR BÁSICA Y LA DESFIBRILACIÓN PRECOZ EN LAS ESCUELAS. EVALUACIÓN DE ESTRATEGIAS INNOVADORAS E INTERACTIVA. IP: Santiago Martínez Isasi. IC: Antonio Rodríguez Núñez, Roberto Barcala Furelos, Cristian Abelairas Gómez. Financiado por el ISCIII dentro de la AES 2020. Duración 3 años.

Proyecto: ALFA-MOV. Alfabetización motriz de los niños en edad escolar. IP: Cristian Abelairas Gómez. IC: Aida Carballo Fazanes. Financiado por MINECO 2019. Duración 3 años.

Proyecto: Estudio clínico y experimental de parada cardíaca y reanimación cardiopulmonar en Pediatría. Financiado por el ISCIII. IP: Jimena del Castillo Peral. IC: Antonio Rodríguez Núñez. Años 2019-2021.

Proyecto: Corticoides para la prevención de las complicaciones de la vía aérea postextubación en niños en estado crítico. Financiado por el ISCIII. IP: Jesús López-Herce Cid, IC: Antonio Rodríguez Núñez. Años 2011-2021.

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### PATENTS

(Granted and licensed patents in the last five years. Include also licensed know-how)

## RICORS Call: Scientific and Technological Profile of the Participating Groups

**Aim:** describe the major contributions of the different participating groups in terms of papers, funding and patents.

**!** The structure of this template has been designed to ensure that the important aspects of your scientific and technological profile are presented in a way that will enable experts to make an effective assessment against the evaluation criteria.

**!** The font type and size recommended is Arial 9 points. Please respect the page limits and do not take it as a target either! It is in your interest to keep your text as concise as possible, since experts rarely view unnecessarily long documents in a positive light.

### Section 1. List of Participating Groups. PI participants.

**!** Remember

PI's Family Name | PI's First name(s) | PI's Work Institution | **Position \***

\***Position:** officer, statutory staff; contracted; fellow

### Section 2. Papers

**Indicate:** Authors; Title; Journal; PMID; Type of paper; Publication year; Impact Factor (JCR Thomson Reuters) and times cited.

### Section 3. International and National Research Projects

**!** Do not include regional or privately funded projects.

**Indicate:** Project ID; Name of the PI; Title; Funding Agency; Amount of Funding & Duration.

### Section 4. Patents

**Indicate:** Applicant; Title; Inventors; Patent Office; Date of application number; Date of grant and Entity-Organization Exploiting the Patent.