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Design and methods of a cluster randomised controlled trial addressed to investigate the effects of a school-based intervention on pediatric obesity and other associated outcomes among disadvantaged communities

Submission date
14/03/2025

Recruitment status
Recruiting

Registration date
19/03/2025

Overall study status
Ongoing

Last Edited
13/03/2026

Condition category
Nutritional, Metabolic, Endocrine

[_] Prospectively registered
[X] Protocol
[_] Statistical analysis plan
[_] Results
[_] Individual participant data
[X] Record updated in last year

Plain English summary of protocol

Background and study aims
Paediatric obesity, a multi-factorial issue, significantly impacts children's biopsychosocial and economic status, particularly those from lower socio-economic backgrounds, thereby exacerbating social health inequalities in Spain.
Obesity preventive interventions should be multilevel, multicomponent, led by a multidisciplinary team, integrated, equitable, person-centred, sensitive to social inequalities, and grounded in a strong psychosocial theoretical basis.
The SEISMO study aims to evaluate the effectiveness of a Multicomponent, Comprehensive, and Multilevel (MCM) school-based intervention, with follow-up for children until adulthood.

Who can participate?
The SEÍSMO study is a school-based intervention aimed at obesity prevention, involving two stages: innovation and development (I+D) and a multicomponent, comprehensive, multilevel intervention (MCM). The SEÍSMO I+D stage includes children aged 6-12 years and the SEÍSMO MCM stage will recruit children aged 3–12 years.

What does the study involve?
The SEISMO school-based intervention aims to improve healthy lifestyles, resilience, academic performance, and reduce obesity among children. It has two stages:
SEÍSMO I+D Stage (2020-2024): This stage involved creating and testing various modules like physical education, family involvement, healthy spaces, water promotion, and healthy eating in schools.
SEÍSMO MCM Stage (2024-2034): This stage will implement the tested modules over 6 years, focusing on promoting healthy habits, engaging the educational community, and improving

school policies and environments.
The intervention uses a metaphor called the Healthy Galaxy to motivate children and families to adopt healthy lifestyles.

What are the possible benefits and risks of participating?
Potential benefits are associated with improved participant lifestyle, adoption of health-promoting schools to facilitate lifestyle, improved academic performance, individual resilience, and reduced incidence of paediatric obesity following the MCM SEISMO intervention. There is a risk from weight-based assessment that evidence suggests may exacerbate obesity numbers, so we aim to incorporate the variable of weight bias internationalization to study and minimise weight stigma through the intervention and incorporate other variables of interest into the assessment protocol to robustly assess the evolution of obesity away from weight-centrism.

Where is the study run from?
SEÍSMO I+D stage addressed 120 Spanish schools prioritizing these are located in disadvantaged communities.
SEÍSMO MCM stage will address 56 Catalan (Spain) schools located in disadvantaged communities.

When is the study starting and how long is it expected to run for?
The I+D stage baseline was conducted in 2021-2024 and the SEÍSMO MCM enrolled all the schools in three waves (2024-2025, 2025-2026, and 2026-2027). In both stages, it will be followed up at 18 years old. The final assessment of the last participant who reaches the age of 18 years old will be in December 2041.

Who is funding the study?
The SEÍSMO study is financially supported by Barça Foundation, BNP Paribas Cardif, Aigües de Barcelona & Agbar, Ajuntament de Barcelona, Agència de Salut Pública de Barcelona (ASPB), Ajuntament de Pineda de Mar, Ajuntament de Balaguer, Ajuntament de Lleida, and Grupo IFA.

Who is the main contact?
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Additional identifiers

Protocol serial number
C.I. PIC-255-20

Study information

Scientific Title
A cluster randomised controlled trial of a School-based Educational Intervention to Stimulate Motivation towards pediatric Obesity prevention among children 3 to 12 years old: the SEÍSMO study

Acronym
SEÍSMO

Study objectives
It is hypothesised that multi-component, comprehensive, multi-level school-based interventions with collaborative approaches that empower the target community towards becoming healthy-promoting schools will have a greater impact on psychological resilience, psychosocial determinants, weight stigma, healthy lifestyles, quality of life, incidence of obesity, academic performance, and weight status (body mass index z-score [zBMI] and waist-to-height ratio [WHtR]).

Ethics approval required
Ethics approval required

Ethics approval(s)
Approved 22/10/2020, CEIm Fundació Sant Joan de Déu (Edifici Docent Sant Joan de Déu - c. Santa Rosa, 39-57, 3ª planta, Esplugues de Llobregat, Barcelona, 08950, Spain; +34 (0)93 600 97 51; info@fsjd.org), ref: C.I. PIC-255-20

Primary study design

Interventional

Study design
School-based cluster randomized controlled trial

Study type(s)
Efficacy, Prevention, Quality of life

Health condition(s) or problem(s) studied
Pediatric obesity

Interventions
Current interventions as of 13/03/2026:
The SEISMO school-based intervention was conceptualized to positively impact healthy lifestyles, psychological resilience, weight stigma, academic performance, quality of life, the incidence of obesity, zBMI and WHtR.

The creation of the SEÍSMO intervention methodology has been organized in two stages: 1) SEISMO innovation and development (I+D) stage from 2020 to 2024; 2) SEÍSMO multicomponent, comprehensive, and multilevel (MCM) stage expected from 2024 to 2041.

1. 1. The SEÍSMO first-stage intervention (I+D)
The original intervention was implemented over four editions (1st – 2020/2021; 2nd – 2021 /2022; 3rd – 2022/2023; 4th – 2023/2024) lasting 12 months each. The periods between each academic year were dedicated to creating new intervention modules that have progressively been incorporated into the method and piloted to the entire educational community: children, teaching staff, parents and/or legal guardians, non-teaching staff, and school managers. The 1st edition served to pilot the physical education module. The 2nd edition also included the family module. In the 3rd edition the healthy spaces module was added to the physical education and family modules. Finally, during the 4th edition, the intervention method was rounded out with the additional incorporation of the water promotion module and the healthy eating and sustainable school's canteen module.

2. The SEÍSMO second-stage intervention (MCM)
All the original intervention modules are currently integrated into the SEÍSMO second-stage intervention. The new intervention will run in each school for a minimum of six consecutive academic years, and will be implemented by school staff and coordinated by the multidisciplinary Gasol Foundation team that will promote the implementation of 50 specific action groups structured in three pillars:
A) Competencies pillar: to promote healthy habits as a comprehensive part of primary school's curricular project that is aligned with the most updated Spanish educational law.
It includes eight specific actions organized in: i) five types of activities directly addressed to children and their families, and ii) three types of resources to reinforce these activities.
B) Educational community pillar: to engage the entire educational community towards adopting the health-promoting schools' approach.
It includes 20 specific actions organized in three action types: i) the activities and resources to consolidate a motor group, ii) the formation and training plan addressed at the entire teaching staff to ensure awareness and skills towards the promotion of a healthy lifestyle, and iii) the communication plan to engage and inform the entire educational community about the achievements in the creation of a health-promoting school.
C) Policy, environment, and cultural pillar: to lead and innovate the healthy governance of

schools by enhancing and strengthening school policies, environment, and culture.
It includes 22 specific actions organized into three types: i) the activities and resources to complete a comprehensive diagnosis, ii) the activities and resources to co-create, prioritize, and define the long-term health-promoting school action plan, and iii) the resources to implement and evaluate this action plan.

The main goal is to establish school governance mechanisms to transform them into health-promoting schools. This transformation involves developing a school-based action plan to promote healthy lifestyles and psychological resilience through an equity-orientated approach. It seeks to address multiple intersecting inequality axes, such as gender, socioeconomic status, migration status, and physical condition, which contribute to unequal exposure to health risks and weight stigma. The plan incorporates school-level strategies and protocols aimed at reducing weight bias and mitigating social pressures related to body weight, thereby addressing weight stigma as both a social determinant of health and a barrier to effective obesity prevention.

The full intervention will be progressively offered to the intervention schools. A total range of 1326 - 2178 actions and 289.75 - 363.75 implementation hours will be promoted. Specifically, 9 specific groups of actions are directly addressed to children and 41 are indirect.

All the activities and resources addressed for children are adapted according to the child's developmental stage and the curricular standards in three age ranges: i) initial grades (6-7 years); ii) medium grades: 8-9 years; and iii) upper grades: 10-12 years.

The four theoretical bases of SEÍSMO MCM intervention are: i) the I-Change model; ii) the Healthy Galaxy metaphor; iii) the Resiliency Theory, operationalized by the Search Institute through the 40 developmental assets, and iv) the motivation interviewing tool.

The Healthy Galaxy is a pedagogical metaphor for the determinants of pediatric obesity. It is based on a fantastic recent story of humanity, where healthy lifestyles decided to take off from planet Earth towards the Healthy Galaxy to create four planets: sleep duration, healthy eating, psychological well-being, and physical activity. This story motivates children and their families to become astronauts and visit each planet. The goal is discovering and reaching the Healthy Galaxy balance to return the healthy lifestyles to Earth. Back on Earth, they will have another mission: to spread everything they have learned. This metaphor guides all interventions and serves as a motivation and gamification strategy to involve the entire educational community.

The intervention will be coordinated by the multidisciplinary GF team and led by school managers and teaching staff. The main initial responsibility of the GF team is to motivate the engagement of the entire educational community to then facilitate and guide the transition towards becoming health-promoting schools.

Control group schools' implication
The following actions will be conducted by each control school: a) an evaluation plan; b) an annual health-related event; c) a comprehensive school diagnosis during the 1st academic year; d) a total of three follow-up meetings are planned for the 1st and 2nd academic years, and four for the subsequent academic years to ensure adherence and define the actions that will be progressively implemented after the baseline; e) a set of national and regional public resources, including training, guidelines, advisory services, health-related materials, and other initiatives, will be promoted equally in the intervention and control group.

Previous interventions:
The SEISMO school-based intervention was conceptualized to positively impact healthy lifestyles, psychological resilience, weight stigma, academic performance, quality of life, the incidence of obesity, zBMI and WHtR.

The creation of the SEÍSMO intervention methodology has been organized in two stages: 1) SEISMO innovation and development (I+D) stage from 2020 to 2024; 2) SEÍSMO multicomponent, comprehensive, and multilevel (MCM) stage expected from 2024 to 2034.

1. The SEISMO I+D
The I+D intervention were carried out along four editions (1st – 2020/2021; 2nd – 2021/2022; 3rd – 2022/2023; 4th – 2023/2024) of 12 months each. The periods between each academic year were dedicated to creating new intervention modules that progressively have been incorporated into the methodology and piloted for reaching the entire educational community: children, teaching staff, parents or caregivers, non-teaching staff, and school managers.
The 1st edition served to pilot the physical education module. The 2nd edition included also the family module. During the 3rd edition, the healthy spaces module was additionally added to the intervention methodology, which finally was rounded with the incorporation of the water promotion module, and the healthy eating and sustainable schools' canteens module, during the 4th edition.

2. The SEÍSMO MCM intervention
The SEÍSMO MCM intervention was conceptualized using the SHE pillars approach for the promotion of the children's healthy lifestyles, equity, resilience, and quality of life. All the original intervention modules piloted on the SEÍSMO I+D have been integrated into the SEÍSMO MCM. The new intervention is structured for a minimum of 6 consecutive academic years, and it will be coordinated by the multidisciplinary GF team that will promote the implementation of 50 specific groups of actions structured in three pillars:
A) Competencies pillar: to promote healthy habits as a comprehensive part of primary school's curricular project that is aligned with the most updated Spanish educational law.
It includes eight specific actions organized in: i) five types of activities directly addressed to children and their families, and ii) three types of resources to reinforce these activities.
B) Educational community pillar: to engage the entire educational community towards adopting the health-promoting schools' approach.
It includes 20 specific actions organized in three action types: i) the activities and resources to consolidate a motor group, ii) the formation and training plan addressed at the entire teaching staff to ensure awareness and skills towards the promotion of a healthy lifestyle, and iii) the communication plan to engage and inform the entire educational community about the achievements in the creation of a health-promoting school.
C) Policy, environment, and cultural pillar: to lead and innovate the healthy governance of schools by enhancing and strengthening school policies, environment, and culture.
It includes 22 specific actions organized into three types: i) the activities and resources to complete a comprehensive diagnosis, ii) the activities and resources to co-create, prioritize, and define the long-term health-promoting school action plan, and iii) the resources to implement and evaluate this action plan.

The full intervention will be progressively offered to the intervention schools. A total range of 1326 - 2178 actions and 289.75 - 363.75 implementation hours will be promoted. Specifically, nine specific groups of actions are directly addressed to children and 41 are indirect.

All the activities and resources addressed for children are adapted according to the child's developmental stage and the curricular standards in three age ranges: i) initial grades (6-7 years); ii) medium grades: 8-9 years; and iii) upper grades: 10-12 years.

The four theoretical bases of SEÍSMO MCM intervention are: i) the IChange model; ii) the Healthy Galaxy metaphor; iii) the Resiliency Theory, operationalized by the Search Institute through the 40 developmental assets, and iv) the motivation interviewing tool.

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The following actions will be conducted by each control school: a) an evaluation plan; b) an annual health-related event; c) a comprehensive school diagnosis during the 1st academic year; d) a total of three follow-up meetings are planned for the 1st and 2nd academic years, and four for the subsequent academic years to ensure adherence and define the actions that will be progressively implemented after the baseline; e) a set of national and regional public resources, including training, guidelines, advisory services, health-related materials, and other initiatives, will be promoted equally in the intervention and control group.

Intervention Type
Behavioural

Primary outcome(s)
Weight status measured using Body Mass Index (BMI) and Waist Height to Ratio (WHtR) at baseline, 12, 24, 36 and 48 months, and at the 18-year-old age group.

Key secondary outcome(s)
Current secondary outcomes as of 13/03/2026:
1. Hours of sleep measured using the Sleep-Habits Survey for Adolescents (SHSA) questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
2. Screen time measured using the Screen-Time-based Sedentary Behaviour Questionnaire (SSBQ) at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
3. Diet quality measured using the KIDMED index questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
4. Physical activity measured using the Physical Activity Unified-7 item Screener (PAU-7S) questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
5. Physical fitness measured using the International Fitness Scale (IFIS) self-rating questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
6. Quality of life measured using the EUROQOL questionnaire (EQ-5D-5L) at baseline, 12, 24, 36,

48 months, and at the 18-year-old age group
7. Academic performance measured using the school curricular ratings at baseline, 12, 24, 36, and 48 months. At the age of 18 years the academic level will be self-reported
8. Psychosocial determinants measured with an ad hoc questionnaire based on the ASE model through a Likert scale at baseline, 12, and 24 months
9. Psychological resilience measured with the Developmental Asset Profile (DAP) questionnaire at baseline, 12, 24 months, and at the 18-year-old age group
10. Weight stigma measured with the Weight Bias Internalization Scale (WBIS-M) questionnaire at baseline, 12, 24 months, and at the 18-year-old age group
11. Socioeconomic status measured using a self-reported questionnaire about sociodemographic characteristics, academic level, labour market status, and home address at baseline
12. Perinatal information, including child's birth weight, pregnancy duration, and breastfeeding duration, reported by the parents/legal guardians using a self-reported questionnaire about the child's living situation and perinatal data at baseline
13. Adverse childhood experiences (ACE) measured using the PEARLS screening tool for children, reported by the parents/legal guardians at baseline

Previous secondary outcomes:
1. Hours of sleep measured using the Sleep-Habits Survey for Adolescents (SHSA) questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
2. Screen time measured using the Screen-Time-based Sedentary Behaviour Questionnaire (SSBQ) at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
3. Diet quality measured using the KIDMED index questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
4. Physical activity measured using the Physical Activity Unified-7 item Screener (PAU-7S) questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
5. Physical fitness measured using the International Fitness Scale (IFIS) self-rating questionnaire at baseline, 12, 24, 36, and 48 months, and at the 18-year-old age group
6. Quality of life measured using the EUROQOL questionnaire (EQ-5D-5L) at baseline, 12, 24, 36, 48 months, and at the 18-year-old age group
7. Academic performance measured using the school curricular ratings at baseline, 12, 24, 36, and 48 months. At the age of 18 years the academic level will be self-reported
8. Psychosocial determinants measured with an ad hoc questionnaire based on the ASE model through a Likert scale at baseline, 12, and 24 months
9. Psychological resilience measured with the Developmental Asset Profile (DAP) questionnaire at baseline, 12, 24 months, and at the 18-year-old age group
10. Weight stigma measured with the Weight Bias Internalization Scale (WBIS-M) questionnaire at baseline, 12, 24 months, and at the 18-year-old age group
11. Socioeconomic status measured using a self-reported questionnaire about sociodemographic characteristics, academic level, labour market status, and home address at baseline

Completion date
31/12/2041

Eligibility

Key inclusion criteria
Current inclusion criteria as of 13/03/2026:
1. Children aged 3–12 years and their families who will be enrolled in a participating school

located in a census section with an average income per person under the mean in Spain (14.804€)
2. Informed consent signed by parents/legal guardians

Previous inclusion criteria:
1. Children aged 3–12 years and their families who will be enrolled in a participating school located in a census section with an average income per person under the mean in Spain (14.787€)
2. Informed consent signed by parents/legal guardians

Participant type(s)
Population

Healthy volunteers allowed
No

Age group
Mixed

Lower age limit
3 Years

Upper age limit
18 Years

Sex
All

Total final enrolment
0

Key exclusion criteria
Children or parents/legal guardians with a psychological or physical limitation that make it impossible to participate in some or all the evaluation procedures. Each case will be considered individually, and the GF team offer different evaluation options to include all the children and families.

Date of first enrolment
01/12/2020

Date of final enrolment
31/12/2026

Locations

Countries of recruitment
Spain

Study participating centre
Escola Pau Romeva
C/ del Pisuerga, 1

Barcelona
Spain
08028

Study participating centre
Centre d'Estudis Montseny
C/ de Pallars, 410
Barcelona
Spain
08019

Study participating centre
Col·legi Paideia
C/ del Montnegre, 36
Barcelona
Spain
08029

Study participating centre
Escola el Turó
C/ de Peñalara, 19-55
Barcelona
Spain
08031

Study participating centre
Escola Baloo
C/ Harmonia 37
Barcelona
Spain
08035

Study participating centre
Escola Piaget
C/del Llobregós, 194
Barcelona
Spain
08032

Study participating centre
Escola Pare Poveda
Av. de Vallcarca, 220
Barcelona
Spain
08023

Study participating centre
Escola Padre Damián
Av. de Vallvidrera, 10
Barcelona
Spain
08017

Study participating centre
Escola Lluís Vives
C/ de Canalejas, 107
Barcelona
Spain
08028

Study participating centre
Escola Ferran Sunyer
C/ de Viladomat, 2
Barcelona
Spain
08015

Study participating centre
Escola Mercè Rodoreda
C/ del Vesuvi, 35
Barcelona
Spain
08016

Study participating centre
Col·legi Amor de Dios
C/del Teide, 27
Barcelona
Spain
08031

Study participating centre
Escola Ferrer i Guàrdia
C/ del Pedraforca, 3,
Barcelona
Spain
08033

Study participating centre
Escola Ciutat Comtal
C/ Pujalt, 6,
Barcelona
Spain
08033

Study participating centre
Escola Pia Sant Antoni
Rda. de Sant Pau, 72
Barcelona
Spain
08001

Study participating centre
Escola La Pau
C/ d'Extremadura, 15
Barcelona
Spain
08020

Study participating centre
Escola Alfonsa Cavin
Av. dels Rasos de Peguera, 57
Barcelona
Spain
08033

Study participating centre
Escola Princeps
C/ de l'Artesania, 38

Barcelona
Spain
08042

Study participating centre
Escola Eduard Marquina
C/Jaume Huguet, 22
Barcelona
Spain
08019

Study participating centre
Escola Sant Lluís
C/Arítjols, 12
Barcelona
Spain
08016

Study participating centre
Escola Prim
C/ Bernat Metge, 20
Barcelona
Spain
08019

Study participating centre
Escola Cal Maiol
C/Sagunt, 92
Barcelona
Spain
08014

Study participating centre
Escola Tibidabo
C/ de Joaquim Valls, 10
Barcelona
Spain
08016

Study participating centre
Escola Sant Gervasi
C/ Bòbiles, 37
L'Hospitalet de Llobregat, Barcelona
Spain
08905

Study participating centre
Escola Charlie Rivel
C/ de Llançà, 20
L'Hospitalet de Llobregat, Barcelona
Spain
08904

Study participating centre
Escola Pep Ventura
Plaça Guernica, s/n
L'Hospitalet de Llobregat, Barcelona
Spain
08903

Study participating centre
Col·legi Alegre
C/ d'Andorra, 23, 25
L'Hospitalet de Llobregat, Barcelona
Spain
08906

Study participating centre
Escola Pau Casals
C/ Almería, 1
L'Hospitalet de Llobregat, Barcelona
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08905

Study participating centre
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Study participating centre
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Study participating centre
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C/Covadonga, 2
L'Hospitalet de Llobregat, Barcelona, España
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Study participating centre
Escola Ernest Lluch
Passatge Colom, 19
L'Hospitalet de Llobregat, Barcelona
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Escola Utmar Hospitalet
C/ Mina, 24
L'Hospitalet de Llobregat, Barcelona
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Av. d'Isabel la Catòlica, 41
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Study participating centre
Escola Pablo Neruda
C/ Cornellà, 37

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Study participating centre
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C/ del Molí, 48
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Av. Carmen Amaya, 44
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08902

Study participating centre
Escola Sant Miquel
C/ Lluís Domènech i Montaner, 1
Cornellà de Llobregat, Barcelona
Spain
08940

Study participating centre
Escola Alexandre Gali
C/Cirerer, 1-7
Cornellà de Llobregat, Barcelona
Spain
08940

Study participating centre
Escola Jacint Verdaguer
C/ Muralla, 8
Castelldefels, Barcelona
Spain
08860

Study participating centre
Escola Jacint Verdaguer
Av. de Salvador Allende, 14, 16
Cornellà de Llobregat, Barcelona
Spain
08940

Study participating centre
Escola Sant Antoni Maria Claret
C/Manuel Mariné, 11
Cornellà de Llobregat, Barcelona
Spain
08940

Study participating centre
Escola Tanit
C/ Pirineus, 5
Santa Coloma de Gramenet, Barcelona
Spain
08923

Study participating centre
Escola Beethoven
C/ Wagner, 16
Sta Coloma de Gramanet, Barcelona
Spain
08923

Study participating centre
Escola Rosello Porcel
Rambla de Sant Sebastià, 92
Sta Coloma de Gramenet, Barcelona
Spain
08922

Study participating centre
Escola Les Neus
Rambla del Fondo, 50
Santa Coloma de Gramenet, Barcelona
Spain
08922

Study participating centre
Escola FEDAC Santa Coloma
C/Sant Ramon, 2
Santa Coloma de Gramenet, Barcelona
Spain
08922

Study participating centre
Escola Folch i Torres
C/Wagner, 68-84
Badalona, Barcelona
Spain
08917

Study participating centre
Escola Baldomer Sola
Av. del Marquès de Mont-Roig, 178
Badalona, Barcelona
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08918

Study participating centre
Escola Mare de Deu Salut
Passeig de la Salut, 36
Badalona, Barcelona
Spain
08914

Study participating centre
Escola Joan Llongueras
C/ Sant Fermí, 3
Badalona, Barcelona
Spain
08917

Study participating centre
Escola Baldiri Reixac
C/Juan Valera, 159

Badalona, Barcelona
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08914

Study participating centre
Escola Maria Ward
C/Gravina, 1
Badalona, Barcelona
Spain
08913

Study participating centre
Escola Santísisma Trinidad
C/ de Santiago, 57
Badalona, Barcelona
Spain
08918

Study participating centre
Escola Arrels
C/ Provença, 7
Badalona, Barcelona
Spain
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Study participating centre
Escola Joan Coret
Plaça Voluntaris Olímpics, 3
Badalona, Barcelona
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Study participating centre
Escola Antoni Botey
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Badalona, Barcelona
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08914

Study participating centre
Escola Ramiro de Maeztu
C/ Ramiro de Maeztu, s/n
Badalona, Barcelona
Spain
08913

Study participating centre
Escola Les Ciències
C/ de la Ciència, 19
Badalona, Barcelona
Spain
08917

Study participating centre
Escola Ginesta
C/ de la Circumval·lació, S/N
Montcada i Reixac, Barcelona
Spain
08110

Study participating centre
Escola Amat Verdú
C/ Marcelino Menéndez y Pelayo
Sant Boi de Llobregat, Barcelona
Spain
08830

Study participating centre
Escola Casablanca
Plaça dels Gegants, 2
Sant Boi de Llobregat, Barcelona, España
Spain
08830

Study participating centre
Escola Barrufet
Plaza Agricultura, 6
Sant Boi de Llobregat, Barcelona
Spain
08830

Study participating centre
Escola Antoni Gaudí
C/Pablo Picasso
Sant Boi de Llobregat, Barcelona
Spain
08830

Study participating centre
Escola Ciurana
C/Manuel de Falla, 2
Sant Boi de Llobregat, Barcelona
Spain
08830

Study participating centre
Escola Angel Tobies
Av. Riera de la Bisbal, 79
El Vendrell, Tarragona
Spain
43700

Study participating centre
Escola Gaspar Portolà
C/Escoles, 0,
Balaguer, Lleida
Spain
25600

Study participating centre
Escola Montroig
C/Marta Mata, 48
Balaguer, Lleida
Spain
25600

Study participating centre
Escola Pia Balaguer
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08397

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08397

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08397

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08397

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25002

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25003

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08291

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08291

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08840

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08620

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08820

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08223

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08227

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08850

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46470

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46015

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28047

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Spain
28970

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28935

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28914

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Navalagamella, Madrid
Spain
28212

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28037

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C/Rodetas, 17

Chapinería, Madrid
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Spain
28032

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28041

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Bonastre
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08226

Sponsor information

Organisation
Gasol Foundation

ROR
https://ror.org/00jb67179

Funder(s)

Funder type
Industry

Funder Name
BNP Paribas Cardif

Alternative Name(s)
BNP Paribas

Funding Body Type
Private sector organisation

Funding Body Subtype
For-profit companies (industry)

Location
France

Funder Name
Barça Foundation

Funder Name
Aigües de Barcelona

Funder Name
Agbar

Funder Name
Agència de Salut Pública de Barcelona

Alternative Name(s)
Barcelona Public Health Agency, ASPB

Funding Body Type
Government organisation

Funding Body Subtype
National government

Location
Spain

Funder Name
Ajuntament de Barcelona

Funder Name
Ajuntament de Pineda de Mar

Funder Name
Ajuntament de Lleida

Funder Name
Ajuntament de Balaguer

Funder Name
Grupo IFA

Results and Publications

Individual participant data (IPD) sharing plan

Data sharing will be considered after request to sgomez@gasolfoundation or to gsegun@gasolfoundation.org. SEISMO webpage: https://gasolfoundation.org/es/seismo/

IPD sharing plan summary

Available on request

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Interim results article		05/03/2026	09/03/2026	Yes	No
Participant information sheet	version 6	01/11/2023	18/03/2025	No	Yes
Protocol file	version 6	01/11/2023	18/03/2025	No	No
Study website		11/11/2025	11/11/2025	No	Yes