ACTIVITIES REPORT 2021



Foundation for Science, Health and Education







- SI! PROGRAM
- 50/50

- HEALTHY COMMUNITIES 2030

04 PUBLICATIONS, CONFERENCES AND CONGRESSES

05 SOURCE AND DESTINATION OF THE RESOURCES

06 TRUSTEES AND TEAM

01 WHO WE ARE

"WHAT WOULD HAPPEN IF SOCIETY WAS CAPABLE OF MODIFYING ITS CURRENT ROUTINES AND ACQUIRE HEALTHY HABITS?"

Factors such as obesity, alcohol addictions, smoking and other drugs have become the main risk factors for cardiovascular disease and year after year cause a considerable increase in the number of people who suffer from it.

In the light of this evidence, and thanks to the experience gained during his career, in 2009 Dr. Fuster promoted the creation of SHE Foundation. A non-profit foundation that, basing itself on basic and clinical research (Science), aims to promote healthy habits (Health) through communication and education (Education) to the population. The SHE Foundation dedicates its efforts in creating a framework of what it means and entails to have an education that impacts the acquisition of healthy habits from childhood, with the aim of promoting a world where children, young people and adults have the capacity to act positively regarding their health.

In 2017, "Ia Caixa" Foundation joined the board of trustees of the SHE Foundation to give continuity to its research work.

"BECAUSE IF SOCIETY REDUCES RISKS, IT ALSO REDUCES THE IMPACT OF CARDIOVASCULAR ILLNESS"

Dr. Valentín Fuster

After a lifetime dedicated to medicine and research, Dr. Valentín Fuster de Carulla, who currently combines his duties as General Director of the CNIC of Madrid, Medical Director and Director of the Cardiovascular Institute of Mount Sinai Hospital in New York and President of the SHE Private Foundation (Science for Health and Education), is convinced that a change in the lifestyle of the population is the only way to avoid the spread of cardiovascular diseases, a true epidemic and the leading cause of death in the world. 02 THE YEAR IN FIGURES



- SI! PROGRAM

Started in 2010, the SI! Program is a school intervention program aimed at children from 3 to 16 years old with one clear objective: to demonstrate that the acquisition of healthy habits from childhood reduces the risk of suffering cardiovascular diseases, while improving the quality of life in adulthood.

Research into public health indicates that health promotion initiatives should begin in the childhood stage. Only in this way is a change in behaviour sustained over time, long term and effective. The **SI! Program** is taught in the classroom by teachers, after being trained by the **SHE - "la Caixa" Foundation**, which either can be face-to-face or semi-face-to-face. The programe also has ISO 9001 certification.

Since its launch in 2010, the SI! Program has trained a total of 2,080 teachers throughout Spain, and 8 meetings of program coordinators have been organized. **SI! PROGRAM**

IT CAME ABOUT WITH THE WILL TO PROMOTE CARDIOVASCULAR HEALTH WITH THE VERY YOUNG, IN A SIMPLE AND PRACTICAL WAY, AND WITH THE OBJECTIVE OF TEACHING HOW TO MAINTAIN HEALTHY HABITS DURING LIFE.

SHE Foundation for Science, Health and Education SI! Salud Integral

FOR ITS IMPLEMENTATION, **4 KEY AREAS OF ACTION** HAVE BEEN ESTABLISHED:





THY KNOWLEDGE OF THE BODY AND THE HEART

DOING PHYSICAL ACTIVITY

EMOTION MANAGEMENT

- SI! PROGRAM

INTERVENTION IN PRESCHOOL, ELEMENTARY AND SECONDARY EDUCATION IN SPAIN



- SI! PROGRAM

ELEMENTARY EDUCATION

- We continue to analyse data from the scientific study in Primary Education and prepare the publication of the results.

- Some of the schools participating in the scientific study continue to implement the SI! Programme in Primary Education and also in Pre-school Education.

SECONDARY **EDUCATION**

- The winning project of a grant on La Marató from TV3 together with the CNIC and the University of Barcelona.

- The scientific study of Secondary Education continues.

- During the 2020-2021 academic year, the implementation has been carried out in the fourth year of ESO (compulsory secondary education (year 11 equivalent) in the schools in the scientific study's intervention group.

- During the months of February to June 2021. the scientific measurements were carried out in the participating schools in Madrid and Catalonia.

BENEFICIARIES OF THE SI! PROGRAM

188 19.362 CENTRES **CHILDREN**

13.378 **CHILDREN**

1.400 ADOLESCENTS IN PRESCHOOL IN ELEMENTARY IN SECONDARY

> 34.140 **TOTAL CHILDREN**

- 50/50 PROGRAM

The 50/50 Program is a scientific study that helps to modify lifestyle habits and control main risk factors for cardiovascular disease: overweight and obesity, sedentarism, smoking and high blood pressure through workshops and peer education.

CARDIOVASCULAR RISK FACTORS





BLOOD PRESSURE





AS A CONSEQUENCE OF THE INTERVENTION OF THE FIFTY-FIFTY PROGRAM, A BENEFICIAL EFFECT HAS BEEN OBSERVED IN THE ACQUISITION OF HEALTHY HABITS RELATED TO CARDIOVASCULAR HEALTH, SHOWING A CLEAR IMPROVEMENT IN THE OVERALL RESULT AND SPECIFICALLY IN EACH ONE OF THE FIVE COMPONENTS: BLOOD PRESSURE, PHYSICAL ACTIVITY, WEIGHT, DIET AND TOBACCO.

Foundation for Science, Health and Education FiftyFifty

50/50 MUNICIPALITIES AND 50/50 COMPANIES

The Fifty-Fifty Program, which started in 2013, has been implemented in 7 municipalities and a follow-up of participants up to 40 months after completion the intervention has been carried out. During 2021, the analysis of the data collected in previous evaluations was completed and several aspects of the whole Fifty Fifty Programme intervention were delved into in order to incorporate improvements. The results were published in the American Heart Journal in 2021. (The challenge of sustainability: Long-term results from the Fifty-Fifty peer group-based intervention in cardiovascular risk factors, Fdez- Alvira JM, Fuster V. et al, 2021, 240:81-88).

The Fifty-Fifty Program was also applied in companies with the objective to give them tools that allow them to improve the cardiovascular health of their employees.

- HEALTHY COMMUNITIES 2030

The SHE - "la Caixa" Foundation has designed a scientific study to evaluate the effectiveness of a community intervention, Healthy Communities, focusing on the main risk factors of cardiovascular disease (smoking, hypertension, diabetes, dyslipidemia, obesity) as well as cardiovascular and neurodegenerative events. The purpose of the project is to implement and validate a healthy city program in which cardiovascular health habits are promoted at all stages of life. The citizens themselves are involved in improving their own health and wellness potential, generating a health culture in a community where working for cardiovascular health is everyone's job.

Healthy Communities HC2030 is based on the implementation of health programs previously evaluated by the SHE - "la Caixa" Foundation and whose results have been published in highimpact scientific journals: SI! Program and Fifty-Fifty Program.

The scientific study will be carried out in Cardona (intervention city) and Sallent (control city).





- HEALTHY COMMUNITIES 2030

ACTIVITIES

The outbreak of the COVID-19 pandemic in 2020 led to the postponement of the start of the project and the adaptation of the intervention so that the activities could be carried out both in person and virtually.

January 2021

The team's efforts were focused on revising the project to make it viable in a situation that could either allow for or restrict face-toface activities. With this in mind, the following elements were designed:

- Interactive virtual sessions led by SHE Foundation technicians.
- Video summaries of the sessions.
- Audiovisual clips to reinforce the contents.
- Motivational challenges to be carried out in safe conditions.

February 2021 - June 2021 The communication plan was designed and the HC2030 project was resumed.

Age and sex stratification of the census of the two populations was carried out to choose the possible participants in the project, 1150 in Cardona and 1150 in Sallent through the local census.

The measurement team for each population was set up.

July - August 2021

The events to present the start of the project were held:July the 28th in Cardona and August the 4th in Sallent. - Meetings were held with the secondary schools involved to explain the project and count on their collaboration.

September - November 2021

The HC 2030 project began with the intervention in Cardona and Sallent.

The first measurements were carried out in the Cardona and Sallent secondary schools for participants aged 12 to 18.

The collaboration agreement was signed between the SHE Foundation and IDIAP-Jordi Gol. Information sessions were held in Cardona and Sallent to provide information to those interested.

December 2021

The preparation of the training platform with the intranet for project participants was completed.

Videos of the sessions, audiovisual clips for reinforcement, motivational challenges and the motivational challenges and selfassessment questionnaires were made available.



04 PUBLICATIONS, CONFERENCES AND CONGRESSES

PUBLICATION

ILSEVER	American Heart Journ Wilne 190, October 2001, Pages 81	
The challe	nge of sustainability:	Long-term
	m the Fifty-Fifty peer	
	on in cardiovascular ri	
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Received 5 October 203 2005.	10. Accepted 13 June 2023, Available unline 18 Jun	e 2021, Version of Record 18 July
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The challenge of sustainability: Long-term results from the Fifty-Fifty peer group-based intervention in cardiovascular risk factors.

Juan Miguel Fernández-Alvira Rodrigo Fernández-Jiménez, Mercedes de Miguel, Gloria Santos-Beneit, Patricia Bodega, Christopher A Hill, Vanesa Carral, Carla Rodríguez, Isabel Carvajal, Xavier Orrit, Amaya de Cos - Gandoy, Marian Dal, Teresa Robledo, Valentín Fuster.

CONGRESS XXV Jornadas Internacionales de Nutrición Práctica y XIV Congreso Internacional de la SEDCA.



> Patrones de estilo de vida y salud cardiovascular en adolescentes del Programa SI! de Secundaria. Bodega P, Fernández-Alvira JM, Santos-Beneit G, Moreno LA, Lamuela-Raventós RM, Fuster V.



> Determinación del óxido Nítrico en orina como posible biomarcador de riesgo cardiovascular y su asociación con la dieta en adolescentes. Arancibia Riveros C, Ramírez S, Tresserra A,Bodega P,de Cos-Gandoy A, Fuster V.

05 SOURCE AND DESTINATION OF RESOURCES





Budget corresponding to period of 2021

06 TRUSTEES AND TEAM

TRUSTEES

Dr. Valentín Fuster de Carulla Founding Trustee – Chairman

Mr. Carles Vilarrubí Carrió Founding Trustee – Deputy Chairman

Sr. Antoni Vila Bertrán Trustee, "la Caixa" Foundation

Sra. Isabel Carvajal Urquijo Trustee

Sr. Higini Clotas Cierco Trustee, "la Caixa" Foundation

Mr. Àngel Font Trustee, "la Caixa" Foundation **The Most Excellent Sr. Javier Solana de Madariaga** Founding Trustee

Mr. Lluís Torres Arro Founding Trustee

Mr. Joan Font Torrent Secretary Trustee

Mr. Antoni Guillén Vidal Deputy Secretary

TEAM

PEDAGOGICAL AREA

Isabel Carvajal Pedagogical Management

Domingo Haro, Carla Rodríguez, Xavier Òrrit, Anna Badia Pedagogical Team

SCIENTIFIC AREA

Gloria Santos Scientific Management

Patricia Bodega, Amaya de Cos, Mercedes de Miguel Scientific Team

MANAGEMENT

Carles Peyra General Management

Rafael Badia, Ester Pla Administration and finance

COLLABORATORS

Pilar Altarriba Quality

Vanesa Carral Pedagogy





SHE PRIVATE FOUNDATION - August 2022