#InspiringKids

HappyAir Community

Staying on Top of Asthma Lovexair Foundation







Prevalence

Childhood Asthma: Prevalence





Spain 2017



Severe uncontrolled Asthma is **less than 5%** in children's population yet uses 2x more Healthcare service resources.



50%

Children who are referred to specialists for diagnosis & assessment are due to **poor** disease-management.





Hospital Admissions and Healthcare expenditure

Severe Asthma in Children: Hospital Admissions





Severe Asthma in Children: Healthcare expenditure

1 in 8 Children have a limited lifestyle:

They visit their GP 1.9 x more than other children. 2.2 x more to emergency services and have 3.5 more hospital admissions.



Spain 2017









Our Progress in 2020

1. Grant Sanofi 2020 (10.000 Eur). **2.** Grant SEPAR Spanish Pulmonary Society (12.000 Eur). function and medication adherence. **3.** Ethics Committee Approval from all participating centres **5.** HappyAir resources in development August-November. has been obtained.

Get involved: Your role in supporting & protecting youngsters health in the COVID-19 era.

1. Step in and help motivate future generations who stick **3.** What we are asking for: **funding**, **activities**, **experiences** to their care plan and doctor's recommendations. which reward people's efforts. **4.** Healthcare professionals, families & young people need 2. You can contribute to young people's health & lifestyle, so that they can live more happily, no matter what happens. your support.



4. In conversations with industry partners to monitor lung

Contact us and show you are committed to respiratory health in 2020-2021: raquelsebio@lovexair.com







Happiness



Arran Strong HappyAir Ambassador



Happiness is a state of mind felt by people who feel fully satisfied for making the most of what they wish for in life, or enjoying something which feels good.

We should all live like this! Health and well-being are our gifts, we have to protect and appreciate them.

I do it every day.

If children live more happily and understand how important it is, to take care of themselves, they can also live their dreams, with confidence and joy, have more active lives and enjoy their childhood.





Lovexair Foundation, with the help of our Young Ambassadors Arran Strong an Alpha and **Elena Marti** asthma affected, are committed and active young athletes who pursue their lifetime goals and dreams.

They have taken on the challenge of promoting awareness and raising funds for an R&D Project for children with poorly controlled asthma.



#InspiringKids



Arran Strong HappyAir Ambassador



Elena Marti HappyAir Ambassador



Main Objective

Evaluate the feasibility and preliminary effectiveness of an online/offline web-based interactive platform (HappyAir[®]) & HappyAirSmartCommunity in children with difficult-to-control asthma to provide care support and improve symptom control.

Secondary Objectives

Explore the acceptability and usability of using digital devices and the platform, amongst children and young adolescents.

Assess the effectiveness in reducing exacerbations, asthma attacks and/or non-scheduled hospital visits (i.e: emergency services).



Main Researcher

• Inés de Mir Messa, MD, PhD. Specialist in Pediatric Pulmonology. Head of the Pediatric Asthma Unit. Hospital Universitario Vall d'hebron;

Collaborators

- Raquel Sebio García, PT, PhD. Hospital Clínic (Barcelona) Research Project Management Lovexair Foundation;
- Eva Maroto. PT, MSc. Director of Patient Development. Lovexair Foundation;
- Teresa Garriga-Baraut, MD, PhD. Specialist in Allergology. Pediatric Allergy Unit. Director of the Pediatric Allergic Asthma Unit. MD. PhD. Valld'Hebron University Hospital;
- Gemma García del Cerro, MD. Pulmonology and Allergology Unit. Hospital Santa Creu I Sant Pau;
- Laura Valdesoiro, MD, PhD. Pulmonology and Allergology Unit. Specialist in Asthma Education programmes. Hospital General ParcTauli Sabadell;
- María Araceli Caballero, MD. Pulmonology and Allergology Unit.Specialist in Pediatric Asthma Parc Salut del Mar Barcelona:
- Jordi Vilaró. PT. PhD. Full-time lecturer at FCS Blanquerna. University Ramon Llull (Barcelona). Vice-dean of Research and Post-graduate Courses. Member of the Lovexair advisory board.
- Shane Fitch. Lovexair Foundation CEO.











Previous Publications

Jimenez-Reguera B, Maroto Lopez E, Fitch S, et al. **Development And Preliminary Evaluation Of The Effects** Of An mHealth Web-based Platform (HappyAir[™]) on Adherence To a Maintenance Program After Pulmonary Rehabilitation In COPD Patients: Randomized Controlled Trial [published online ahead of print, 2020 June 3].

JMIR Mhealth Uhealth. 2020;10.2196/18465. doi:10.2196/18465



Randomized, multi-centre, single-blinded controlled trial:

- Vall d'Hebron Hospital (Barcelona).
- Santa Creu i Sant Pau Hospital (Barcelona).
- Hospital del Mar (Barcelona).
- Parc Taulí Hospital (Sabadell).

Sample

60 patients (30 patients per group) recruited from the pediatric allergy and respiratory services.



Project: Inclusion Criteria and Randomization

Inclusion Criteria

- Children between 6 and 18 years old;
- Diagnosis of moderate to severe persistent asthma according to the GEMA guidelines;
- Difficult to control asthma according to a scoring in the Asthma Control Questionnaire (ACQ) of \geq 1.5 points;
- Access to internet and a smartphone, tablet or computer;
- Ability to understand and use the web-based platform (in children <12 years with the support of their tutor or legal guardian)
- Informed consent if under 18 years (carried out by their tutor or legal guardian)



Randomized

Control Group (CG) will receive:

• Standard care consisting of periodic visits, to their Allergy or Pediatric Respiratory Care Services Unit, in their respective hospitals.

Intervention Group (IG) will receive:

- Access to the HappyAir[®] platform for 6 months, with educational content on how to adequately use inhaled medication, how to manage their illness and how to control their asthma with the assistance of digital devices and social and medical support.
- Access to HappyAir Coach, a healthcare professional specializing in respiratory and digital health care.



Project: Outcomes

Assessment

- At baseline, prior to randomization.
- Post-intervention (6 months).
- At follow up (12 months).



Main Outcomes

- Asthma Control Questionnaire (ACQ).
- Number of exacerbations and/or attacks, during study period.
- Feasibility of the programme (calculated from the total number of patients who consented to be recruited and who complete the intervention study period).



Budget

Adapting HappyAir digital platform to the integral care plan for children and young people with severe asthma.



Development of a digital recreational activity to promote adherence and empowerment.



Legal services with DPO guidance and compliance for GDPR regulations on privacy and security and contracts with ethical committees in multi-centric framework.







Connecting innovative digital devices or ensuring data transfer with the HappyAir platform to manage data control and test device usability.





Budget

Project management by the Foundation's technicaleducational-clinical team in collaboration with the specialist medical team connecting via the multi-centre network.



Development of educational materials for poorlycontrolled asthma in this age-group in online/ offlines resources.



HappyAir Coach Training to guide patients in their care plan and act as agents when needed with healthcare professionals.



Monitoring and accompaniment of children in their daily lives, support for family members and health specialists involved.





Organization of face-to-face workshops for families and children in places near hospitals.







Development of the R&D project & Data Management Construct to publish as advance and when the study, is completed.







Publication and presentation of the results, reports and

materials in online digital, specific events, conferences or journals, related to respiratory and digital health.



* Cost of the devices to be confirmed



Project communication: Audience



Lovexair.com *

170K views 812 page views/day **4000+ users** on Newsletter/mailings

Social Media



1231K Reach **2117** Followers



153,7K Reach 2404 Followers



in

47794 Reach **397** Followers

153,7K Reach

210 Followers



2.8K Reach 88 Subscribers



COVID-19 Support Group: 120 users (Since Jun 2010)



Happyair.org *

65K views 309 page views/day **4000+ users** on Newsletter/mailings In progress: Community software implementation

Social Media



1.6K Reach **14** Followers (created Apr 2020)



1.4K Reach **110** Followers

* Audience in 2020 (01 Jan to 27 Jul) - Data obtained with Metricool;



Project communication and divulgation

Alliances and regular collaborations Dissemination through:

- **Retail Eroski Consumer**: Twitter 56K, Facebook 221K, LinkedIn 24K.
- **PMFarma magazine pharmacy**: 400K monthly visits, 3.5K printed magazines.
- ELF (European Lung Foundation) / ERS (European **Respiratory Society)** communications: newsletters and web reports.
- LATAM: Annual events networking on jointly promoted activities including Virtual Summit December 2020.
- GAAPP (Global Asthma Allergy Patient Power): Collaboration on key events global communications support.

- Digital Health Networks & events: HIMSS, ECH Alliance, ASD, EIP on AHA, IFIC.
- **Digital Health Europe2020**: HappyAir recognised as Good practice.
- Patient Advisory board membership of Global Committees with Industry partners on digital health strategies.
- Improvid consortia established June 2020 with 9 leading institutions in 4 countries.



How can you help us?

Opportunity

Logo on all online and offline materials that are published related to the project #HappyAirInspiringKids

Receive a report and audio-visual material of the study, events and workshops related, as well as statistical data about the projects impact for partners.

First-hand information and recognition of the sponsorship contribution in all digital channels of Lovexair and HappyAir (2 websites), as well as in our social networks.

Online conference to determine the best way to **support** your participation.

Networking Opportunities in related events or activities.

Direct mention in any media (radio, television, print and online media) in which we participate as part of the project.

#Inspiring



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Thank you!

Information about the clinical project Raquel Sebio: rsebio@lovexair.com

Media & Sponsorship

Victor Gascón: victorgascon@lovexair.com





