



EUROPEAN RESPIRATORY journal

FLAGSHIP SCIENTIFIC JOURNAL OF ERS



Late Breaking Abstract - Effect on asthma control using a novel digital self-management system: a physician blinded randomised controlled cross-over pilot trial

Björn Nordlund, Anna Carleborg, Henrik Ljungberg European Respiratory Journal 2018 52: PA4434; **DOI:** 10.1183/13993003.congress-2018.PA4434

Article

Figures & Data

Info & Metrics

Abstract

Background: Asthmatuner is a new self-management system that consists of a patient app, a cloud based storage solution and a healthcare interface. Patients use a Bluetooth spirometer (MIR SmartOne) to measure FEV1 and can register symptoms. They then receive immediate feedback on asthma control and an image of the correct inhaler(s) to use and the dose, coupled to their treatment plan. We aimed to evaluate the effect of Asthmatuner on asthma control test (ACT).

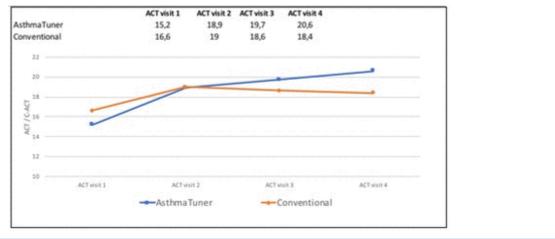
Methods: This cross-over pilot study evaluated 38 schoolchildren (mean age 11 years) with uncontrolled asthma (ACT <20 points), randomised to start 8 weeks with Asthmatuner or conventional management (paper personalized treatment plan), and with 2 weeks wash-out period between the periods. The outcome ACT was evaluated before and after each period with paired t-tests.

Results: Both Asthmatuner and conventional arm resulted in significantly improved ACT between visit one and two (mean score 3.7 vs 2.4, p-values <0.003) Figure 1. In addition, Asthmatuner improved the ACT between visit three and four (mean score 0.9 vs. - 0.2). When combining the two arms, the overall difference between Asthmatuner and conventional management did not reach statistical significance (p-0.23).

WE USE COOKIES ON THIS SITE TO ENHANCE YOUR USER EXPERIENCE

By clicking any link on this page you are giving your consent for us to set cookies.

OK, I agree





Conclusions: Asthmatuner improves asthma control. Our findings support the use of digital self-management for asthma.

Footnotes

Cite this article as: European Respiratory Journal 2018 52: Suppl. 62, PA4434.

This is an ERS International Congress abstract. No full-text version is available. Further material to accompany this abstract may be available at www.ers-education.org (ERS member access only).

Copyright ©the authors 2018

We recommend

Evaluation in a severe asthma expert center improves asthma outcomes.

Camille Bègne et al., European Respiratory Journal, 2018

LATE-BREAKING ABSTRACT: The benefits of Nigella sativa oil supplementation on asthma inflammation: A randomised, double-blind, placebocontrolled, phase II trial P238 A randomised controlled feasibility trial of an Ehealth platform supported care vs usual care after exacerbation of COPD. (RESCUE COPD)

M North et al., Thorax, 2018

Advance notice of contraceptive availability at surgical abortion: a pilot randomised controlled trial Andrea H Roe et al., Sexual & Reproductive Health, 2018

WE USE COOKIES ON THIS SITE TO ENHANCE YOUR USER EXPERIENCE

By clicking any link on this page you are giving your consent for us to set cookies.

OK, I agree

Lone Schaadt et al., European Respiratory Journal, 2018

Association of Asthma Control Test (ACT) and Asthma Control Questionnaire (ACQ) with asthma exacerbation

Ryuichi Togawa et al., European Respiratory Journal, 2018

Is omalizumab response influenced by passive smoking in severe asthma?

Daniela Cavalet Blanco et al., European Respiratory Journal, 2018

future asthma exacerbations

A Woodcock et al., Thorax, 2018

G360(P) A randomised controlled trial of ready to use therapeutic food (rutf) for moderate/severe acute malnourished indian children with cancer

S Tandon et al., Arch Dis Child, 2018

Powered by TREND MD

I consent to the use of Google Analytics and related cookies across the TrendMD network (widget, website, blog). Learn more

Yes

No

Previous

▲ Back to top

Vol 52 Issue suppl 62 Table of Contents

Table of Contents
Index by author

Email

★ Alerts

Citation Tools

© Request Permissions

→ Share

Jump To

Article

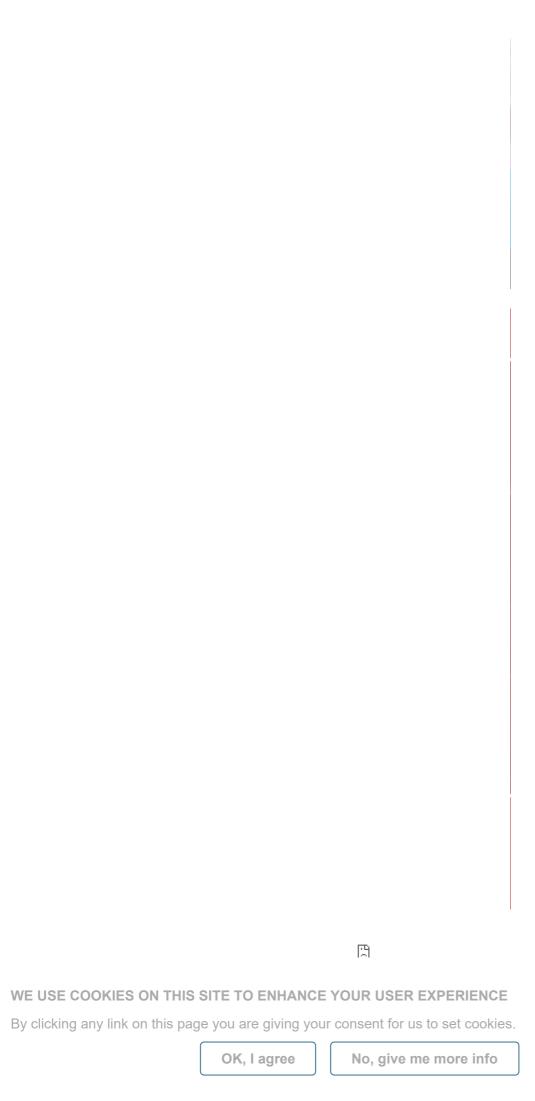
Figures & Data

Info & Metrics

WE USE COOKIES ON THIS SITE TO ENHANCE YOUR USER EXPERIENCE

By clicking any link on this page you are giving your consent for us to set cookies.

OK, I agree



No	colatod	' articles	found
1101	cialcu	ลเ แบเธง	iouiia.

Google Scholar

Navigate

Home

Current issue

Archive

About the ERJ

Journal information

Editorial board

Reviewers

CME

Press

Permissions and reprints

Advertising

The European Respiratory Society

Society home

myERS

Privacy policy

Accessibility

ERS publications

European Respiratory Journal

ERJ Open Research

European Respiratory Review

Breathe

ERS books online

ERS Bookshop

Help

Feedback

For authors

Instructions for authors

WE USE COOKIES ON THIS SITE TO ENHANCE YOUR USER EXPERIENCE

By clicking any link on this page you are giving your consent for us to set cookies.

OK, I agree

Subjects

Collections

Podcasts

RSS

Subscriptions

Accessing the ERS publications



Contact us

European Respiratory Society 442 Glossop Road Sheffield S10 2PX United Kingdom

Tel: +44 114 2672860

Email: journals@ersnet.org

ISSN

Print ISSN: 0903-1936 Online ISSN: 1399-3003

Copyright © 2019 by the European Respiratory Society

WE USE COOKIES ON THIS SITE TO ENHANCE YOUR USER EXPERIENCE

By clicking any link on this page you are giving your consent for us to set cookies.

OK, I agree