

REG Summit 2019

WORKING GROUP MEETING Minutes: Technology Working Group

28th March 2019

Divani Palace, Athens, Greece

Meeting details	
Meeting location	Divani Palace
Meeting date	28 th March 2019
Meeting time	14.00-15.00
Chair(s)	Ron Dandurand
Objectives	
1	Consolidate ideas on “asthma exacerbations” project
2	Update on external projects
3	Determine leadership and direction for the working group

Attendees: Esther Metting, Amanda Bracey, Sarah Lucas, Sinthia Bosnic-Anticevich, Alan Kaplan, Liam Heaney, John Busby, Guilherme Safioti, Lena Binetskaya, Dermot Ryan, Manon Belhassen, Eric Van Ganse, Heath Heatley, Jaco Voorham, Joseph Lanario, Ioanna Tsiligianni, Ron Dandurand, Naomi Lauanders

Items	
Minutes from ERS 2018	<ul style="list-style-type: none"> Ron Dandurand presented the projects that were under discussion at ERS 2018 and updated the group.
Scoping review of smart inhalers	<ul style="list-style-type: none"> The scoping review for smart inhalers was presented briefly.
Asthma exacerbations	<p>A detailed discussion was held regarding the best way to approach this topic.</p> <p>Defining an exacerbation</p> <ul style="list-style-type: none"> It was noted that determining the threshold for an exacerbation could be hard, and some exacerbations remain undocumented in primary/secondary care. There may be use of OTC medication and/or poor recall by the patient.



	<ul style="list-style-type: none"> It was suggested that phenotypes and triggers needed to be taken into consideration and that medication consumption could be measured. <p>A tool to identify exacerbations</p> <ul style="list-style-type: none"> A daily symptom tool and a measure of medication consumption Is passive or active technology most appropriate? Usability and acceptability Will patients measure peak flow daily for example? Or use a wearable that needs charging? Or can we utilize mobile phone sensors? Much less reliable but passive and so potentially better adherence. <p>Where is the need?</p> <ul style="list-style-type: none"> What does the technology need to do and what is already out there? What impact can technology-solutions have on asthma exacerbation detection and treatment and asthma control List technologies and detail likelihood of compliance What do patients want? Could create a composite index of symptoms and simple technology that patients would be able to comply with. <p>Methodology</p> <ul style="list-style-type: none"> Prioritization exercise and Delphi Systematic review of what increases risk of exacerbation Comprehensive list of technology that is available Patient needs and solutions stratified by phenotype <p>Action</p> <ul style="list-style-type: none"> REG to take comments into consideration in reviewing the current proposal, and send to PIs and steering committee.
<p>External updates</p>	<ul style="list-style-type: none"> Ron Dandurand reported that the phase I manuscript from the oscillometry harmonization project has been submitted. The concept now needs validating in a real-world setting. Ron Dandurand also provided an update on the relaxed expiratory occlusion monitor (REOM), which is seeking funding. Finally, Ron Dandurand presented a novel CT biomarker for COPD and ILD. Using machine vision, slope rather than density is assigned to CAT scan voxels using lines of isoluminescence. The resulting image resembles a topographical map. Each voxel may then be assigned metric of steepness; positive or negative for convex or concave, respectively. This is being presented at ATS.
<p>Leadership and direction</p>	<ul style="list-style-type: none"> The room were asked for volunteers or nominations to act as working group lead for the group. As no one came forward, the group will continue with projects without a lead for the time being.