





From ARIA guidelines to the digital transformation of health in rhinitis and asthma multimorbidity

Jean Bousquet^{1,2,3,4,5}, Josep M. Anto^{6,7,8}, Claus Bachert⁹, Sinthia Bosnic-Anticevich¹⁰, Marina Erhola¹¹, Tari Haahtela¹², Peter W. Hellings^{13,14}, Piotr Kuna¹⁵, Oliver Pfaar¹⁶, Boleslaw Samolinski¹⁷, Holger J. Schünemann¹⁸, Aziz Sheikh¹⁹, Dana Wallace²⁰, and the ARIA study group

Affiliations: ¹University Hospital Montpellier, Montpellier, France. ²MACVIA-France, Fondation partenariale FMC VIA-LR, Montpellier, France. ³INSERM U 1168, VIMA: Ageing and chronic diseases, Epidemiological and public health approaches, Villejuif, France. ⁴Université Versailles St-Quentin-en-Yvelines, UMR-S 1168, Montigny le Bretonneux, France. ⁵Charité, Universitätsmedizin Berlin, Humboldt-Universität zu Berlin, and Berlin Institute of Health, Comprehensive Allergy Center, Dept of Dermatology and Allergy, Berlin, Germany. ⁶ISGlobAL, Centre for Research in Environmental Epidemiology (CREAL), Barcelona, Spain. ⁷Universitat Pompeu Fabra (UPF), Barcelona, Spain. ⁸CIBER Epidemiología y Salud Pública (CIBERESP), Barcelona, Spain. ⁹Upper Airways Research Laboratory, ENT Dept, Ghent University Hospital, Ghent, Belgium. ¹⁰Woolcock Institute of Medical Research, University of Sydney and Woolcock Emphysema Centre and Sydney Local Health District, Glebe, Australia. ¹¹National Insitute for Health and Welfare, Helsinki, Finland. ¹²Skin and Allergy Hospital, Helsinki University Hospital, and University of Helsinki, Finland. ¹³Dept of Otorhinolaryngology, University Hospitals Leuven, Leuven, Belgium. ¹⁴Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands. ¹⁵Division of Internal Medicine, Asthma and Allergy, Barlicki University Hospital, Medical University of Lodz, Lodz, Poland. ¹⁶Dept of Otorhinolaryngology, Head and Neck Surgery, Section of Rhinology and Allergy, University Hospital Marburg, Phillipps-Universitä Marburg, Marburg, Germany. ¹⁷Dept of Prevention of Envirronmental Hazards and Allergology, Medical University of Warsaw, Warsaw, Poland. ¹⁸Dept of Health Research Methods, Evidence, and Impact, Division of Immunology and Allergy, Dept of Medicine, McMaster University, Hamilton, ON, Canada. ¹⁹The Usher Institute of Population Health Sciences and Informatics, The University of Edinburgh, UK. ²⁰Nova Southeastern University, Fort Lauderdale, FL, USA.

Correspondence: Jean Bousquet, CHU Arnaud de Villeneuve, 371 Avenue du Doyen Gaston Giraud, 34295 Montpellier Cedex 5, France. E-mail: jean.bousquet@orange.fr

@ERSpublications

ARIA has evolved, with strong political commitment, from the first multimorbidity guideline in respiratory diseases to an exemplar for the future digital transformation of health and care for the management of patients with long-term conditions http://bit.ly/35fBlhN

Cite this article as: Bousquet J, Anto JM, Bachert C, *et al.* From ARIA guidelines to the digital transformation of health in rhinitis and asthma multimorbidity. *Eur Respir J* 2019; 54: 1901023 [https://doi.org/10.1183/13993003.01023-2019].

This single-page version can be shared freely online.

In all societies, the disease burden and the healthcare costs for people with allergic and chronic respiratory diseases are increasing rapidly [1]. Most economies are struggling to deliver consistent high-quality healthcare. There is a need to support the transformation of the healthcare system for integrated care through leveraging developments in digital health [2]. The term "digital health" refers to advanced medical technologies, disruptive innovations and digital communication tools aiming to provide best healthcare practice [3].

Copyright ©ERS 2019