BIOLOGICAL TREATMENTS IN ALLERGY: PRESCRIPTION AND MANAGEMENT OF HYPERSENSITIVITY REACTIONS

Leyla Barakat¹, María José Torres², Elizabeth J. Phillips³, Marco Caminati⁴, Yoon-Seok Chang⁵, Davide Caimmi⁶, Mario Sanchez-Borges⁷, Lanny Rosenwasser⁸, Alain Didier⁹, Frédéric De Blay¹⁰, Jean-François fontaine¹¹, Isabelle Bosse¹¹, Sébastien lefevre¹², Cintia Bassani¹³, Maria di Filippo¹⁴, Ignacio J Ansotegui¹⁵, Mário Morais-Almeida¹⁶, Motohiro Ebisawa¹⁷, Bryan Martin¹⁸, Bernard Thong¹⁹, Pascal Demoly²⁰, and LUCIANA TANNO²¹

¹University Hospital Centre Montpellier ²Universidad de Málaga Facultad de Medicina ³Vanderbilt University School of Medicine ⁴Verona University Hospital ⁵Seoul National University Bundang Hospital ⁶Department of respiratory medicine and allergy, Hôpital Arnaud de Villeneuve, CHU Montpellier, Univ Montpellier ⁷Centro Medico-Docente La Trinidad ⁸Children's Mercy Hospitals and Clinics ⁹CHU Toulouse ¹⁰University Hospital Strasbourg ¹¹Allergist ¹²Universite de Lorraine ¹³IMED School of Medicine ¹⁴University of Pavia ¹⁵Hospital Quironsalud Bizkaia ¹⁶CUF-Descobertas Hospital ¹⁷National Hospital Organization, Sagamihara National Hospital ¹⁸Columbus State University ¹⁹Tan Tock Seng Hospital ²⁰University Hospital of Montpellier ²¹Hospital Sírio Libanês

August 3, 2020

Abstract

Background: Allergy is witnessing major advances, in particular with the advent of biological therapies for treating allergic diseases. Given the novelty of these therapeutics, we aimed to explore by a worldwide survey, the prescription and the management of hypersensitivity reactions (HR) of biological agents (BA) in Allergy. Method: We built up an anonymous online questionnaire, sent out by mail and social media and circulated for 40 days. Results: 348 responses were from 59 countries, with a majority from Europe (62.6%). 97% of responders practiced allergy and 48.5%, exclusively so. Allergy was mentioned as a full specialty in 69.5 % of cases. 71% of responders confirmed the right of prescription of BA for allergists in

their country and 78.4 % prescribed BA in their clinical practice. Europe included almost all the allergists who did not have the right of prescribing BA (95.5%), specifically France (91%). The most prescribed BA were Anti IgE (78.1%) and anti IL5 (43.9%). The most declared HR to BA were local reactions (74.1%) followed by anaphylaxis like symptoms (6.8%) and delayed exanthemas (5.1%). Desensitization was considered in 18.9% of cases. These HR were reported in 48.8% of cases. Conclusion: Although BA are now a pillar in the treatment of allergic diseases and allergists are familiar with management of HR associated with BA, their prescription is not authorized for allergists in all countries. BA showed to be generally safe but HR, which may be severe, could occur with a lack of consensus on the management.

Hosted file

29.07.20 P22 .doc available at https://authorea.com/users/348267/articles/473699-biologicaltreatments-in-allergy-prescription-and-management-of-hypersensitivity-reactions