



**EAACI/UEMS Examination in Allergology and Clinical Immunology**  
EAACI Congress, Vienna.  
Saturday, 11 June 2016: 11:00 – 14:00

**APPLICATION DEADLINE:**  
**1 APRIL 2016**  
[www.eaaci.org/eaaci-exam](http://www.eaaci.org/eaaci-exam)

## **SUGGESTIONS WELCOME**

### **List of Literature for preparation of EAACI-UEMS examination**

**You are not expected to read all, this would be impossible: it is just a suggestion for updating your knowledge or satisfying your curiosity. If you feel a lack of knowledge, some of these publications may help.**

**As an allergologists/immunologist, you are expected to have a basic understanding of immunology and its implication in the daily clinical practice.**

#### **Books:**

##### **Basic Immunology:**

- Abbas A et al. Cellular and molecular Immunology, Saunders, 2014 or later (also short version)
- Janeway Ch, et al. Immunobiology, 2014 or later
- Mini Primer on allergic and immunologic diseases; edt. W T. Shearer & D. Y.M.
- And many more

##### **Clinical Immunology**

- Chapel H. Clinical Immunology, 2006
- Rich R et al, Clinical Immunology 2008
- Schoenfeld Y., Autoimmune Diseases and Treatment : organ specific and systemic disorders (2006)
- Annals of Allergy, Asthma & Immunology May 2005, Volume 94, Number 5, Supplement 1: Practice Parameter for the Diagnosis and Management of Primary Immunodeficiency

##### **Allergology:**

- Middleton E et al: etc. Allergy, principles and practice 2005 or later
- Kay B et al. Allergy and allergic diseases, 2008
- And many more

### **Specific topics:**

- Müller U. Insect sting Allergy. Gustav Fischer Verlag, Stuttgart New York 1990.
- Pichler WJ (edt) Drug Hypersensitivity, Karger 2007
- Internet: <http://www.allergome.org> or other homepages
- Lockey RF, Bukantz SC, Bousquet J. Allergens and allergen immunotherapy, 3<sup>rd</sup> edition, New York, Basel, 2004.
- Bernstein IL, Chan Yeung M, Malo JL, Bernstein DI. Asthma in the work place. Eds Taylor Francis, New York, London, 2006.

Local (non-English) books are welcome if accepted/recommended by the local societies. Further recommendations are welcome. Please send them to Carsten Schmidt-Weber (zaum@tum.de).

### **Publications:**

- a) Position papers of EAACI, AACI, BSACI, local societies
- b) Original papers and reviews: There are many papers and reviews which are helpful to provide a base for the topics asked for in the exam.
- c) The articles marked with \*) in basic and clinical immunology belongs to a series of well written review articles about the immune system, which help to recapitulate your knowledge.

This is a selection at random: it consists of classical review articles, but also some articles addressing special topics, often proposed by creators of questions. Further suggestions are welcome!

### **(Basic and clinical) Immunology**

- Akdis CA, Blaser K, Akdis M. Apoptosis in tissue inflammation and allergic disease. Curr Opin Immunol 2004; 16: 717-23.
- Andrian UH, Mackay CR. T-Cell Function and Migration — Two Sides of the Same Coin. N Engl J Med 2000; 343:1020\*
- Bellinghausen I, Metz G, Enk AH, Christmann S, Knop J, Saloga J. Insect venom immunotherapy induces interleukin-10 production and a Th2-to-Th1 shift, and changes surface marker expression in venom-allergic subjects. Eur J Immunol 1997; 27: 1131-9.
- Bettelli E, Carrier Y, Gao W, Korn T, Strom TB, Oukka M, Weiner HL, Kuchroo VK. Reciprocal developmental pathways for the generation of pathogenic effector TH17 and regulatory T cells. Nature 2006; 441: 235-8.
- Bousquet J et al. Allergic rhinitis and its impact on asthma. J. Allergy Clin Immunol 2001; 108:147-334.
- Braunstahl GJ et al. Segmental bronchoprovocation in allergic rhinitis patients affects mast cell and basophil numbers in nasal and bronchial mucosa. Am J Respir Crit Care Med 2001; 164: 858-65.
- Davidson A, Diamond B. Autoimmune Diseases. N Engl J Med 2001; 345:340\*
- Delves PJ, Roitt IM. The Immune System: First of Two Parts. N Engl J Med 2000; 343:37\*

- Delves PJ, Roitt IM, The Immune System: Second of Two Parts. N Engl J Med 2000; 343:108\*
- Francis JN, Till SJ, Durham SR. Induction of IL-10+CD4+CD25+ T cells by grass pollen immunotherapy. J Allergy Clin Immunol 2003; 111:1255-61.
- Jiang H, Chess L. Regulation of Immune Responses by T Cells. N Engl J Med 2006; 54:1166\*
- Jutel M, Akdis M, Budak F, Aebischer-Casaulta C, Wrzyszczyk M, Blaser K, Akdis CA. IL-10 and TGF-beta cooperate in the regulatory T cell response to mucosal allergens in normal immunity and specific immunotherapy. Eur J Immunol 2003; 33: 1205-14.
- Kaisho T, Akira S. Toll-like receptor function and signaling. J. Allergy Clin Immunol 2006; 117: 979-87.
- Kamradt T, Mitchison NA. Tolerance and Autoimmunity. N Engl J Med 2001; 344:655\*
- Kay AB. Allergy and Allergic Diseases: First of Two Parts. N Engl J Med 2001; 344:30\*
- Linden A, Adachi M. Neutrophilic airway inflammation and IL-17. Allergy 2002; 57: 769-75.
- Medzhitov R, Janeway C Jr. Innate Immunity. N Engl J Med 2000; 43:338\*
- Rhen T, Cidlowski JA. Antiinflammatory Action of Glucocorticoids — New Mechanisms for Old Drugs. N Engl J Med 2005; 353:1711\*
- Schwartz RS. Diversity of the Immune Repertoire and Immunoregulation. N Engl J Med 2003; 348:1017\*
- Vercelli D. Immunoglobulin E and its regulators. Curr Opin Allergy Clin Immunol 2001; 1: 61-5.
- Walport MJ. Complement: First of Two Parts. N Engl J Med 2001; 344:1058\*
- Walport MJ. Complement: Second of Two Parts. N Engl J Med 2001; 344:1140\*
- Weyand CM, Goronzy JJ. Medium- and Large-Vessel Vasculitis. N Engl J Med 2003; 349:160\*
- Woodfolk JA. T-cell responses to allergens. J. Allergy Clin Immunol 2007; 119: 280-94.

**Immune deficiency:** you should know the most common ID and those where a distinction to allergic diseases have to be made or where atopic disorders are frequent (eczema, high IgE,...).

- Marciano BE, Rosenzweig SD, Kleiner DE, Anderson VL, Darnell DN, Anaya-O'Brien S, Hilligoss DM, Malech HL, Gallin JI, Holland SM. Gastrointestinal involvement in chronic granulomatous disease. Pediatrics 2004; 114; 462-8.
- Chapel H, Geha R, Rosen F for the IUIS PID Classification Committee. Primary immunodeficiency diseases: an update. Clin Exp Immunol 2003; 132: 9-15.
- Cicardi M, Zingale LC. The deficiency of C1 inhibitor and its treatment. Immunobiology 2007; 212: 325-31.
- Conley ME, Howard V. Clinical findings leading to the diagnosis of X-linked agammaglobulinemia. J Pediatrics 2002; 141: 566-571.
- Cunningham-Rundles C, Bodian Carol. Common Variable Immunodeficiency: Clinical and Immunological Features of 248 patients. Clin Immunol 1999; 92: 34-48.

- De Laat PC, Weemaes CM, Gonera R, Van Munster PJ, Bakkeren JA, Stoelinga GB. Clinical manifestations in selective IgA deficiency in childhood. A follow-up report. *Acta Paediatr Scand*. 1991; 80: 798-804.
- Geha RS et al. Primary immunodeficiency diseases: An update from the International Union of Immunological Societies Primary Immunodeficiency Diseases Classification Committee. *J Allergy Clin Immunol* 2007; 120: 776-94.
- Mark Ballou. Primary immunodeficiency disorders: Antibody deficiency. *The Journal of Allergy and Clinical Immunology* 2002; 109: 581-91.
- Notarangelo L, Casanova JL, Conley ME et al. Primary immunodeficiency diseases: An update from the International Union of Immunological Societies Primary Immunodeficiency Diseases Classification Committee Meeting Budapest, 2005. *J Allergy Clin Immunol* 2006; 117: 883-96.
- Primary Immunodeficiency Diseases. Report of an IUIS Scientific Committee. *Clin Exp Immunol* 1999; 118: 1-28.
- Torgerson TR, Ochs HD. Immune dysregulation, polyendocrinopathy, enteropathy, X-linked: forkhead box protein 3 mutations and lack of regulatory T cells. *J Allergy Clin Immunol*, 2007; 120: 744-50.
- Wood P, Stanworth S, Wood P, Stanworth S, Burton J, Jones A, Peckham DG, Green T, Hyde C, Chapel H; UK Primary Immunodeficiency Network. Recognition, clinical diagnosis and management of patients with primary antibody deficiencies: a systematic review. *Clinical and Experimental Immunology* 2007; 149: 410-23.

## **Autoimmunity**

- Black CM. Scleroderma-clinical aspects. *J Intern Med* 1993; 234: 115-8
- Cervera R, Piette JC, Font J, Khamashta MA, Shoenfeld Y, Camps MT, Jacobsen S, Lakos G, Tincani A, Kontopoulou-Griava I, Galeazzi M, Meroni PL, Derksen RH, de Groot PG, Gromnica-Ihle E, Baleva M, Mosca M, Bombardieri S, Houssiau F, Gris JC, Quéré I, Hachulla E, Vasconcelos C, Roch B, Fernández-Nebro A, Boffa MC, Hughes GR, Ingelmo M; Euro-Phospholipid Project Group. Antiphospholipid syndrome: clinical and immunologic manifestations and patterns of disease expression in a cohort of 1,000 patients. *Arthritis Rheum* 2002; 46: 1019-27.
- Finazzi G, Brancaccio V, Moia M, Ciaverella N, Mazzucconi MG, Schinco PC, Ruggeri M, Pogliani EM, Gamba G, Rossi E, Baudo F, Manotti C, D'Angelo A, Palareti G, De Stefano V, Berrettini M, Barbui T. Natural history and risk factors for thrombosis in 360 patients with antiphospholipid antibodies: a four-year prospective study from the Italian Registry. *Am J Med* 1996; 100: 530-6.
- Hagen EC, Daha MR, Hermans J, Andrassy K, Csernok E, Gaskin G, Lesavre P, Lüdemann J, Rasmussen N, Sinico RA, Wiik A, van der Woude FJ. Diagnostic value of standardized assays for anti-neutrophil cytoplasmic antibodies in idiopathic systemic vasculitis. EC/BCR Project for ANCA Assay Standardization. *Kidney Int* 1998; 53: 743-53.
- Livi R, Teghini L, Pignone A, Generini S, Matucci-Cerinic M, Cagnoni M. Renal functional reserve is impaired in patients with systemic sclerosis without clinical signs of kidney involvement. *Ann Rheum Dis* 2002; 61: 682-6.
- Marie I, Dominique S, Levesque H, Ducrotté P, Denis P, Hellot MF, Courtois H. Esophageal involvement and pulmonary manifestations in systemic sclerosis. *Arthritis Rheum* 2001; 45: 346-54.
- Petri M. Exogenous estrogen in systemic lupus erythematosus: oral contraceptives and hormone replacement therapy. *Lupus* 2001; 10: 222-6.

**Allergens:** a profound knowledge of the most frequent allergen classes and the principles of molecular allergology and basis for cross-reactivity is expected

- Asturias JA, Ibarrola I, Ferrer A, Andreu C, López-Pascual E, Quiralte J, Florido F, Martínez A. Diagnosis of *Alternaria alternata* sensitization with natural and recombinant Alt a 1 allergens. *J Allergy Clin Immunol* 2005; 115: 1210-7.
- Bush RK, Prochnau JJ. *Alternaria*-induced asthma. *J Allergy Clin Immunol* 2004; 113: 227-34.
- Buters JT, Kasche A, Weichenmeier I, Schober W, Klaus S, Traidl-Hoffmann C, Menzel A, Huss-Marp J, Kramer U, Behrendt H. Year-to-year variation in release of Bet v 1 allergen from birch pollen: evidence for geographical differences between West and South Germany. *Int Arch Allergy Immunol* 2008; 145: 122-30.
- D'Amato G, Spieksma FT, Liccardi G, Jäger S, Russo M, Kontou-Fili K, Nikkels H, Wuthrich B, Bonini S. Pollen-related allergy in Europe. *Allergy* 1998; 53: 567-78.
- D'Amato G, Lobefalo G. Allergenic pollens in the southern Mediterranean area. *J Allergy Clin Immunol* 1989; 83: 116-22.
- Fernandez-Caldas et al. Mite allergens in Lockey RF, Bukantz SC, Bousquet J. *Allergens and allergen immunotherapy*, 3rd edition, New York, Basel, 2004 ; 251-70.
- Radauer C, Breiteneder H. Pollen allergens are restricted to a few protein families and show distinct patterns of species distribution. *J Allergy Clin Immunol* 2006; 117: 141- 147.
- Tovey E, Marks G. Methods and effectiveness of environmental control. *J Allergy Clin Immunol* 1999; 103: 179-91.
- Tovey ER Tovey ER, Chapman MD, Wells CW, Platts-Mills TA. The distribution of dust- mite allergens in the houses of patients with asthma. *Am Rev Respir Dis* 1981; 124: 630-5.
- Van Ree R. Carbohydrate epitopes and their relevance for the diagnosis and treatment of allergic diseases. *Int Arch Allergy Immunol* 2002; 129: 189-97.
- Pauli G. Evolution in the understanding of cross-reactivities of respiratory allergens: the role of recombinant allergens. *Int Arch Allergy Immunol*. 2000; 123: 183-95.
- Valenta R, Niederberger V. Recombinant allergens for immunotherapy. *J Allergy Clin Immunol* 2007; 119: 826-30.

## **Mastocytosis**

- Valent P, Akin C, Escribano L, Födinger M, Hartmann K, Brockow K, Castells M, Sperr WR, Kluin-Nelemans HC, Hamdy NA, Lortholary O, Robyn J, van Doormaal J, Sotlar K, Hauswirth AW, Arock M, Hermine O, Hellmann A, Triggiani M, Nideszytko M, Schwartz LB, Orfao A, Horny HP, Metcalfe DD: Standards and standardization in mastocytosis: consensus statements on diagnostics, treatment recommendations and response criteria. *Eur J Clin Invest* 2007; 37: 435-453
- Brockow K, Jofer C, Behrendt H, Ring J: Anaphylaxis in patients with mastocytosis: a study on history, clinical features and risk factors in 120 patients.:*Allergy* 2008; 63: 226-32
- Valent P, Akin C, Arock M, Brockow K, Butterfield JH, Carter MC, Castells M, Escribano L, Hartmann K, Lieberman P, Nideszytko B, Orfao A, Schwartz LB, Sotlar K, Sperr WR, Triggiani M, Valenta R, Horny HP, Metcalfe DD: Definitions, Criteria and Global Classification of Mast Cell Disorders with Special Reference to Mast Cell Activation Syndromes: A Consensus Proposal.: *Int Arch Allergy Immunol* 2012 Oct 27; 157(3): 215-225

- Clinical, biological, and molecular characteristics of clonal mast cell disorders presenting with systemic mast cell activation symptoms. Alvarez-Twose I, González de Olano D, Sánchez-Muñoz L, Matito A, Esteban-López MI, Vega A, Mateo MB, Alonso Díaz de Durana MD, de la Hoz B, Del Pozo Gil MD, Caballero T, Rosado A, Sánchez Matas I, Teodósio C, Jara-Acevedo M, Mollejo M, García-Montero A, Orfao A, Escribano L. *J Allergy Clin Immunol*. 2010 Jun;125(6):1269-1278
- Nonaggressive systemic mastocytosis (SM) without skin lesions associated with insect-induced anaphylaxis shows unique features versus other indolent SM. Alvarez-Twose I, Zanotti R, González-de-Olano D, Bonadonna P, Vega A, Matito A, Sánchez-Muñoz L, Morgado JM, Perbellini O, García-Montero A, De Matteis G, Teodósio C, Rossini M, Jara-Acevedo M, Schena D, Mayado A, Zamò A, Mollejo M, Sánchez-López P, Cabañes N, Orfao A, Escribano L; Spanish Network on Mastocytosis (REMA); Italian Network on Mastocytosis (RIMA). *J Allergy Clin Immunol*. 2014 Feb;133(2):520-8

### Eosinophilia

- [Refining the definition of hypereosinophilic syndrome](#) Hans-Uwe Simon, Marc E. Rothenberg, Bruce S. Bochner, Peter F. Weller, Andrew J. Wardlaw, Michael E. Wechsler, Lanny J. Rosenwasser, Florence Roufosse, Gerald J. Gleich, Amy D. Klion *J Allergy Clin Immunol*. Author manuscript; available in PMC 2012 July 19. Published in final edited form as: *J Allergy Clin Immunol*. 2010 July; 126(1): 45-49.
- [Eosinophilic esophagitis: updated consensus recommendations for children and adults](#). Liacouras CA, Furuta GT, Hirano I, Atkins D, Attwood SE, Bonis PA, Burks AW, Chehade M, Collins MH, Dellon ES, Dohil R, Falk GW, Gonsalves N, Gupta SK, Katzka DA, Lucendo AJ, Markowitz JE, Noel RJ, Odze RD, Putnam PE, Richter JE, Romero Y, Ruchelli E, Sampson HA, Schoepfer A, Shaheen NJ, Sicherer SH, Spechler S, **Spergel** JM, Straumann A, Wershil BK, Rothenberg ME, Aceves SS. *J Allergy Clin Immunol*. 2011 Jul;128(1):3-20

### Anaphylaxis

- [EAACI food allergy and anaphylaxis guidelines: managing patients with food allergy in the community](#). Muraro A, Agache I, Clark A, Sheikh A, Roberts G, Akdis CA, Borrego LM, Higgs J, Hourihane JO, Jorgensen P, Mazon A, Parmigiani D, Said M, Schnadt S, van Os-Medendorp H, Vlieg-Boerstra BJ, Wickman M; European Academy of Allergy and Clinical Immunology. *Allergy*. 2014 Aug;69(8):1046-57. doi: 10.1111/all.12441. Epub 2014 Jun 18. Erratum in: *Allergy*. 2014 Oct;69(10):1428.
- [EAACI Food Allergy and Anaphylaxis Guidelines. Protecting consumers with food allergies: understanding food consumption, meeting regulations and identifying unmet needs](#). Muraro A, Hoffmann-Sommergruber K, Holzhauser T, Poulsen LK, Gowland MH, Akdis CA, Mills EN, Papadopoulos N, Roberts G, Schnadt S, van Ree R, Sheikh A, Vieths S; **EAACI** Food Allergy and **Anaphylaxis** Guidelines Group. *Allergy*. 2014 Nov;69(11):1464-72. doi: 10.1111/all.12453. Epub 2014 Jul 29. Erratum in: *Allergy*. 2014 Nov;69(11):1570.
- [Occupational anaphylaxis – an EAACI task force consensus statement](#). Siracusa A, Folletti I, Gerth van Wijk R, Jeebhay MF, Moscato G, Quirce S, Raulf M, Ruëff F, Walusiak-Skorupa J, Whitaker P, Tarlo SM. *Allergy*. 2015 Feb;70(2):141-52

### Asthma

- [Vandenplas O, Suojalehto H, Aasen TB, Baur X, Burge PS, de Blay F, Fishwick D, Hoyle J, Maestrelli P, Muñoz X, Moscato G, Sastre J, Sigsgaard T, Suuronen K, Walusiak-Skorupa J, Cullinan P; ERS Task Force on Specific Inhalation Challenges with Occupational Agents](#). Specific inhalation challenge in the diagnosis of occupational asthma: consensus statement. *Eur Respir J* 2014 Jun;43(6):1573-87

- Wenzel SE. Asthma phenotypes: the evolution from clinical to molecular approaches. *Nat Med*. 2012 May 4;18(5):716-25.
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- Wagener AH, de Nijs SB, Lutter R, Sousa AR, Weersink EJ, Bel EH, Sterk PJ. External validation of blood eosinophils, FE(NO) and serum periostin as surrogates for sputum eosinophils in asthma. *Thorax*. 2015 Feb;70(2):115-20.
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- Boulet LP, O'Byrne PM Asthma and exercise-induced bronchoconstriction in athletes.. *N Engl J Med*. 2015 Feb 12;372(7):641-8.
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- Barnes PJ Therapeutic approaches to asthma-chronic obstructive pulmonary disease overlap syndromes.. *J Allergy Clin Immunol*. 2015 Sep;136(3):531-45.
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- Rodrigo GJ, Castro-Rodríguez JA What is the role of tiotropium in asthma?: a systematic review with meta-analysis.. *Chest*. 2015 ;147(2):388-96.
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## Drug Allergy

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