

How to Guide Fellows on Board Preparation

Session #1110

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Disclosures

- No disclosures
- The views expressed are those of the presenter and do not reflect the official views or policy of the Department of Defense or its components

Learning Objectives

- Review important aspects of the American Board of Allergy & Immunology (ABAI) certification exam
- Identify resources available for board preparation
- Discuss elements of the learning environment to enhance success



The Horse Whisperer


Moose

Overview


- The Challenge – ABAI board exam
- Resources
- Curriculum
- Learning environment

ABAI

<https://abai.org>



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Administrative

- Registration
 - Application & agreement
 - Fees
 - Medical license
 - Recommendation letters
 - Program Director (PD) documentation

Administrative

- Application & agreement - fellow
 - On line https://abai.org/exam_howto.asp
 - Dates
 - Registration opens: January 1, 2022
 - Registration deadline to avoid late fees: March 15, 2022
 - Registration closes: May 31, 2022
 - Test cite registration opens: August 1, 2022
 - Cancellation deadline: August 31, 2022
 - Certification exam: October 3-7, 2022
 - Certification exam results released: December 1, 2022

Administrative

- Fees - fellow

- Certification exam \$2,650
- Late fee (after March 15) (non-refundable) \$500
- Rescore \$100
- Returned check \$50

- Cancellation refund (by August 31) \$1,850
 - \$800 of fee is non-refundable for processing fee

Administrative

- Medical license

Administrative

• Recommendation letters x 2

Recommendation Letter for ABAI Certification Exam

For the Candidate (Name): _____

This section to be completed by one of the following acceptable references:

- ABAI-certified Diplomates in the community
- Chief of Medicine, Pediatrics, or chiefs of community hospitals
- Officers of state or regional societies

NOTE: The information you provide is confidential. Please attach additional comments you would wish to share with ABAI's Conjoint Credentials Committee regarding the qualification of this candidate for ABAI Certification.

The candidate whose name appears above has applied for entrance to the upcoming ABAI Certification Examination. In order to process the application, the Conjoint Credentials Committee requests your assistance in the assessment of the candidate's qualifications. The candidate provided us with your name as a reference and is requesting that you complete the assessment on the following pages. Our Board of Directors will ultimately approve or reject the candidate's application based on the findings of the Committee, including your response. Please return the completed recommendation **within 30 days of receipt**.

Candidates, who completed two years of accredited ACGME-training in allergy and immunology prior to the examination, are required to provide bona fide verification of their medical, ethical, and moral standing in the community and document recognition of themselves as clinically competent consultants in allergy and immunology with an appointment in good standing on a hospital staff.

1. My knowledge of the candidate dates from _____ to _____.

2. I have known the candidate in my position as (indicate with a check mark):

☐ ABAI Diplomate

☐ Officer of National, Regional, State, or Local A/I Society

Specify affiliation: _____

☐ Chief of Medicine at _____

☐ Chief of Pediatrics at _____

☐ Chief of Hospital at _____

3. The candidate is recognized as a specialist in the field of _____.

4. Assessment of candidate's ethical and moral standing in the community (circle one):

SATISFACTORY or **UNSATISFACTORY**

If you assess the candidate as "unsatisfactory", please provide comments.

(Deficiencies may relate to patient care, lack of professional integrity, fraudulent or criminal activities, drug and alcohol abuse.)

5. As a consultant in allergy and immunology, the candidate holds an appointment in good standing on staff at the following hospital: _____

6. Rank the candidate's overall clinical competence (circle one):

Outstanding Far exceeds reasonable expectations.

Good Usually exceeds reasonable expectations, but is not really outstanding.

Satisfactory Always meets reasonable expectations and occasionally exceeds them.

Doubtful May meet reasonable expectations, but often falls short.

Unsatisfactory Usually falls short of reasonable expectations, cannot be considered as a specialist consultant.

If you ranked the candidate with either doubtful or unsatisfactory, please provide comments.

7. Other comments in support of the entry of this candidate to the ABAI Certification Examination:

Reference's Signature _____

Date _____

Please mail, fax, or email to: American Board of Allergy and Immunology
1835 Market Street, Suite 1210
Philadelphia, PA 19103
Telephone 215-592-9466
Fax 215-592-9411
Email abai@abai.org

Administrative

- Program Director documentation

GENERAL COMPETENCIES:

1. Patient Care	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Performs accurate and comprehensive medical interview, physical examinations, and review of data.• Capable of essential procedural skills.• Makes diagnostic and therapeutic decisions based on evidence/clinical data patient preferences.			
2. Medical Knowledge	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Knowledge of basic and clinical sciences.• Demonstrates interest in development of knowledge.• Understands complex relationships and mechanisms of diseases			
3. Practice-Based Learning and Improvement	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Self-evaluates performance.• Incorporates feedback.• Uses technology to enhance patient care and self-improvement.			
4. Interpersonal and Communication Skills	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Explains medications in language appropriate to patients.• Ensures patients understand condition and treatment.• Encourages questions from patients.• Educates and counsels patients, families, colleagues.			
5. Professionalism	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Respectful, compassionate, honest, and has integrity.• Exhibits responsible behavior.• Committed to self-assessment.• Acknowledges errors.• Considers needs of patients, families, and colleagues.			
6. System-Based Practice	<input type="radio"/> Unsatisfactory	<input type="radio"/> Satisfactory	<input type="radio"/> Superior
<ul style="list-style-type: none">• Utilizes/accesses outside resources.• Aware of patients' financial constraints.• Incorporates subspecialty consultation.• Aware of economic, systemic, and social factors on health care.			

ALLERGY & IMMUNOLOGY SPECIFIC COMPETENCIES:

1. Medical Interview

Conducts comprehensive and detailed medical interview with children and adults who present with suspected allergic and/or immunologic disorders.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

2. Physical Examination

Performs a physical examination appropriate to the specialty.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

3. Diagnostic Tests and Studies

Selects, performs, and interprets diagnostic tests or studies.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

4. Risks and Benefits of Therapy

Assesses the risks and benefits of therapies for allergic and immunologic disorders (e.g. drug therapy, allergen immunotherapy, immunomodulatory therapy).

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

5. Counseling Patients

Counsels and educates patients about diagnosis, prognosis, and treatment.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

6. Consulting Resources

Consults with and educates other physicians and health care providers.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

7. Application of Basic and Clinical Science

Applies basic and clinical science to the clinical care of patients.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

8. Research and Participation

Quality of resident's research and participation. Include short description.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

9. Coordination of Patient Care

Coordinates the care of patients, including the use of consultation; Interaction with faculty, peers, and supportive staff.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

10. Lifelong Learning

Accepts the need for a lifelong pursuit of excellence, self-directed learning, and continuing education.

☐Unsatisfactory

☐Satisfactory

☐Superior

Comments:

Overall Clinical Competence in Allergy & Immunology

☐Unsatisfactory

☐Satisfactory

☐Superior

Administrative

- Program Director documentation

REVIEW AND SIGN

Print names in signature box to indicate that a hard copy was signed.

Resident (Full Name):

Program Director/Supervisor (Full Name):

Resident (Signature):

Program Director/Supervisor (Signature):

Date: ☐ I have assessed the General and Specific Competencies for the above-named resident and verify that the resident has received this feedback during his/her rotation. (Supporting information is on file).

☐

Final Evaluation **I attest to the fact that the above-named fellow/resident has achieved all academic and clinical competencies set by the ACGME & ABAI and is prepared to practice competently and independently as an Allergist/Immunologist.**

Administrative

- Program Director documentation

REQUIRED PROCEDURES AND ACHIEVEMENT OF COMPETENCY

(all procedures must be completed)

Procedure Name	Date
<input type="checkbox"/> Immediate hypersensitivity skin testing	
<input type="checkbox"/> Allergen immunotherapy	
<input type="checkbox"/> Drug hypersensitivity diagnosis and treatment	
<input type="checkbox"/> Food hypersensitivity diagnosis and treatment	
<input type="checkbox"/> Immunoglobulin treatment and other immunomodulator therapies	
<input type="checkbox"/> Contact/delayed type hypersensitivity testing	
<input type="checkbox"/> Pulmonary function testing	

REVIEW AND SIGN:

Resident's Full Name:

Program Director/Supervisor (Full Name):


Resident's Signature:

Program Director/Supervisor (Signature):

☐ I have assessed the competency of the above-named resident in each of the procedures listed and verify that the resident is skilled to perform these procedures. (Supporting information is on file).
Signed _____

ABAI Exam

https://abai.org

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ABAI Exam

Certification Examination

Items	225
Time	7hrs (2 sessions)
Location	Pearson Vue Test Center
Method	computer-based
Passing Score	absolute minimum
Basic Science*	25%
Clinical Science*	75%

*Percentages are approximations.

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ABAI Exam Blueprint

A. Allergy and Hypersensitivity Principles and Disorders (epidemiology, risk factors, clinical presentation, diagnosis and differential diagnosis, treatment/management, physiology/pathophysiology)	54%
1. Head and neck	11%
A.1.a. Nasal (allergic and non-allergic rhinitis)	
A.1.b. Sinus (acute and chronic, NP, allergic fungal sinusitis)	
A.1.c. Ocular	
A.1.d. Anatomy, physiology & pathology	
A.1.e. Diagnostics – Nasal/conjunctival provocation, mucociliary function	
A.1.f. Cough	
2. Dermatologic	11%
A.2.a. Eczema	
A.2.b. Atopic Dermatitis	
A.2.c. Contact Hypersensitivity	
A.2.d. Urticaria	
A.2.e. Angioedema (hereditary and acquired)	
A.2.f. Anatomy, physiology & pathology	
3. Lung	11%
A.3.a. Asthma and related disorders	
A.3.b. Occupational diseases	
A.3.c. ABPA	
A.3.d. Hypersensitivity pneumonitis	
A.3.e. Eosinophilic granulomatous polyangiitis (CSS)	
A.3.f. COPD	
A.3.g. ILD	
A.3.h. Anatomy, physiology & pathology	
A.3.i. Pulmonary diagnostic testing (e.g., spirometry, bronchoprovocation, body plethysmography, FeNO, IOS, Mucociliary function)	
4. Food and Drug Allergy/Hypersensitivity Reactions (not including eosinophilic GI disease)	11%
A.4.a. Adverse Reactions to Foods	
A.4.b. Allergens	
A.4.c. Adverse Reactions to Drugs & Biologicals (epidemiology, mechanism & management principles)	
5. Anaphylaxis and Mast Cell Activation Disorders (not food or drug-related)	10%
A.5.a. Idiopathic	
A.5.b. Exercise	
A.5.c. Latex	
A.5.d. Stinging insect	
A.5.e. Mastocytosis	
A.5.f. Other mast cell disorders	

B. Immunological Disorders (epidemiology, risk factors, pathogenesis, clinical presentation, diagnosis and differential diagnosis, treatment/management)	45%
1. Immune Inflammatory Disorders	10%
B.1.a. Immune complex disorders	
B.1.b. Autoimmune disorders	
B.1.c. Autoinflammatory (febrile) disorders	
B.1.d. Vaccination & immunomodulatory therapeutics	
B.1.e. Other aspects of immune-mediated inflammation	
2. Immunodeficiencies	16%
B.2.a. SCID	
B.2.b. Combined Immunodeficiency	
B.2.c. T cell disorders	
B.2.d. B cell disorders (hypogammaglobulinemia, antibody deficiencies)	
B.2.e. Phagocytic disorders	
B.2.f. Complement disorders	
B.2.g. TLR signaling pathways	
B.2.h. IL-12/IFN-gamma pathways	
B.2.i. Secondary immune deficiency	
B.2.j. Other immune dysregulation and immunodeficiencies	
3. Eosinophilic and Gastrointestinal Disorders	6%
B.3.a. Eosinophilic gastrointestinal disorders (includes Eosinophilic esophagitis)	
B.3.b. Hypereosinophilic syndromes	
B.3.c. Inflammatory bowel disease	
B.3.d. Celiac disease	
B.3.e. Anatomy, physiology & pathology	
4. Immune system & Research Principles	9%
B.4.a. Immune system development/normal immune system	
B.4.a. Antigens including superantigens, determinants	
B.4.a. Antigen presentation & histocompatibility	
B.4.a. Immunoregulation / Tolerance	
B.4.a. Immunogenetics / Molecular Biology	
B.4.a. Immunoglobulin structure and function	
B.4.a. T & B Cell Ligand-Receptor Interactions & Signal Transduction / Cell Activation / Anergy	
B.4.a. Cytokines / Chemokines & Their Receptors	
B.4.a. Adhesion Molecules	
B.4.a. Complement, coagulation, fibrinolytic & kallikrein-kinin immune system	
B.4.a. Immediate Hypersensitivity (IgE-Mediated)	
B.4.a. IgG/IgA/IgM/FCR-Mediated Reactions (e.g. ADCC, immune complex, opsonization)	
B.4.a. Delayed type hypersensitivity / Cell-mediated immunity	

B.4.a. Innate Immunity	
B.4.b. Cellular mechanisms of immune responses including cytokines and mediators	
B.4.b. Lymphocytes	
B.4.b. T cells & receptors	
B.4.b. B cells & receptors	
B.4.b. Other lymphocytes (e.g. NK, NK-T)	
B.4.b. Antigen-Presenting Cells (e.g., Monocytes, Macrophages, Dendritic Cells)	
B.4.b. Mast Cells / Basophils	
B.4.b. Eosinophils	
B.4.b. Neutrophils	
B.4.b. Other cells (e.g. endothelial, epithelial, smooth muscle, fibroblasts, platelets)	
B.4.c. Research Principles	
B.4.c. Experimental Design	
B.4.c. Data Analysis & Biostatistics	
B.4.c. Epidemiology	
B.4.c. Human subject protection & adverse event reporting	
5. Non-disease specific pharmacology/therapeutics (e.g. mechanism of action, pharmacokinetics, classes of therapeutics)	2%
6. Allergens, Antigens and Extracts (non-disease specific properties, measurement & avoidance)	2%
B.6.a. Aerobiology (e.g. pollens & measurement)	
B.6.b. Molds & Fungi	
B.6.c. Indoor Allergens	
B.6.d. Animal, insect & arthropod allergens	
B.6.e. Pollutants	
B.6.f. Allergen extract standardization & stability	
B.6.g. Specific Diagnostic Modalities	
C. Emerging Health Priorities (e.g. disparities of care, opioid crisis, wellness, burnout, pandemic)	1%
Total:	100%

ABAI Exam Blueprint

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2. Dermatologic	11%
A.2.a. Eczema	
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A.2.c. Contact Hypersensitivity	
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A.2.e. Angioedema (hereditary and acquired)	
A.2.f. Anatomy, physiology & pathology	
3. Lung	11%
A.3.a. Asthma and related disorders	
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A.4.b. Allergens	
A.4.c. Adverse Reactions to Drugs & Biologicals (epidemiology, mechanism & management principles)	
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A.5.f. Other mast cell disorders	

B. Immunological Disorders (epidemiology, risk factors, pathogenesis, clinical presentation, diagnosis and differential diagnosis, treatment/management)	45%
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B.1.b. Autoimmune disorders	
B.1.c. Autoinflammatory (febrile) disorders	
B.1.d. Vaccination & immunomodulatory therapeutics	
B.1.e. Other aspects of immune-mediated inflammation	
2. Immunodeficiencies	16%
B.2.a. SCID	
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- 3 Main sections

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B.4.b. Antigen-Presenting Cells (e.g., Monocytes, Macrophages, Dendritic Cells)	
B.4.b. Mast Cells / Basophils	
B.4.b. Eosinophils	
B.4.b. Neutrophils	
B.4.b. Other cells (e.g. endothelial, epithelial, smooth muscle, fibroblasts, platelets)	
B.4.c. Research Principles	
B.4.c. Experimental Design	
B.4.c. Data Analysis & Biostatistics	
B.4.c. Epidemiology	
B.4.c. Human subject protection & adverse event reporting	
5. Non-disease specific pharmacology/therapeutics (e.g. mechanism of action, pharmacokinetics, classes of therapeutics)	2%
6. Allergens, Antigens and Extracts (non-disease specific properties, measurement & avoidance)	2%
B.6.a. Aerobiology (e.g. pollens & measurement)	
B.6.b. Molds & Fungi	
B.6.c. Indoor Allergens	
B.6.d. Animal, insect & arthropod allergens	
B.6.e. Pollutants	
B.6.f. Allergen extract standardization & stability	
B.6.g. Specific Diagnostic Modalities	
C. Emerging Health Priorities (e.g. disparities of care, opioid crisis, wellness, burnout, pandemic)	1%
Total:	100%

• 11 Sub-categories

ABAI Exam Blueprint

A. Allergy and Hypersensitivity Principles and Disorders (epidemiology, risk factors, clinical presentation, diagnosis and differential diagnosis, treatment/management, physiology/pathophysiology)	54%
1. Head and neck	11%
A.1.a. Nasal (allergic and non-allergic rhinitis)	
A.1.b. Sinus (acute and chronic, NP, allergic fungal sinusitis)	
A.1.c. Ocular	
A.1.d. Anatomy, physiology & pathology	
A.1.e. Diagnostics – Nasal/conjunctival provocation, mucociliary function	
A.1.f. Cough	
2. Dermatologic	11%
A.2.a. Eczema	
A.2.b. Atopic Dermatitis	
A.2.c. Contact Hypersensitivity	
A.2.d. Urticaria	
A.2.e. Angioedema (hereditary and acquired)	
A.2.f. Anatomy, physiology & pathology	
3. Lung	11%
A.3.a. Asthma and related disorders	
A.3.b. Occupational diseases	
A.3.c. ABPA	
A.3.d. Hypersensitivity pneumonitis	
A.3.e. Eosinophilic granulomatous polyangiitis (CSS)	
A.3.f. COPD	
A.3.g. ILD	
A.3.h. Anatomy, physiology & pathology	
A.3.i. Pulmonary diagnostic testing: e.g., spirometry, bronchoprovocation, body plethysmography, FeNO, IOS, Mucociliary function)	
4. Food and Drug Allergy/Hypersensitivity Reactions (not including eosinophilic GI disease)	11%
A.4.a. Adverse Reactions to Foods	
A.4.b. Allergens	
A.4.c. Adverse Reactions to Drugs & Biologicals (epidemiology, mechanism & management principles)	
5. Anaphylaxis and Mast Cell Activation Disorders (not food or drug-related)	10%
A.5.a. Idiopathic	
A.5.b. Exercise	
A.5.c. Latex	
A.5.d. Stinging insect	
A.5.e. Mastocytosis	
A.5.f. Other mast cell disorders	

B. Immunological Disorders (epidemiology, risk factors, pathogenesis, clinical presentation, diagnosis and differential diagnosis, treatment/management)	45%
1. Immune Inflammatory Disorders	10%
B.1.a. Immune complex disorders	
B.1.b. Autoimmune disorders	
B.1.c. Autoinflammatory (febrile) disorders	
B.1.d. Vaccination & immunomodulatory therapeutics	
B.1.e. Other aspects of immune-mediated inflammation	
2. Immunodeficiencies	16%
B.2.a. SCID	
B.2.b. Combined Immunodeficiency	
B.2.c. T cell disorders	
B.2.d. B cell disorders (hypogammaglobulinemia, antibody deficiencies)	
B.2.e. Phagocytic disorders	
B.2.f. Complement disorders	
B.2.g. TLR signaling pathways	
B.2.h. IL-12/IFN-gamma pathways	
B.2.i. Secondary immune deficiency	
B.2.j. Other immune dysregulation and immunodeficiencies	
3. Eosinophilic and Gastrointestinal Disorders	6%
B.3.a. Eosinophilic gastrointestinal disorders (includes Eosinophilic esophagitis)	
B.3.b. Hypereosinophilic syndromes	
B.3.c. Inflammatory bowel disease	
B.3.d. Celiac disease	
B.3.e. Anatomy, physiology & pathology	
4. Immune system & Research Principles	9%
B.4.a. Immune system development/normal immune system	
B.4.a. Antigens including superantigens, determinants	
B.4.a. Antigen presentation & histocompatibility	
B.4.a. Immunoregulation / Tolerance	
B.4.a. Immunogenetics / Molecular Biology	
B.4.a. Immunoglobulin structure and function	
B.4.a. T & B Cell Ligand-Receptor Interactions & Signal Transduction / Cell Activation / Anergy	
B.4.a. Cytokines / Chemokines & Their Receptors	
B.4.a. Adhesion Molecules	
B.4.a. Complement, coagulation, fibrinolytic & kallikrein-kinin immune system	
B.4.a. Immediate Hypersensitivity (IgE-Mediated)	
B.4.a. IgG/IgA/IgM/FCR-Mediated Reactions (e.g. ADCC, immune complex, opsonization)	
B.4.a. Delayed type hypersensitivity / Cell-mediated immunity	

B.4.a. Innate immunity	
B.4.b. Cellular mechanisms of immune responses including cytokines and mediators	
B.4.b. Lymphocytes	
B.4.b. T cells & receptors	
B.4.b. B cells & receptors	
B.4.b. Other lymphocytes (e.g. NK, NK-T)	
B.4.b. Antigen-Presenting Cells (e.g., Monocytes, Macrophages, Dendritic Cells)	
B.4.b. Mast Cells / Basophils	
B.4.b. Eosinophils	
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B.6.f. Allergen extract standardization & stability	
B.6.g. Specific Diagnostic Modalities	
C. Emerging Health Priorities (e.g. disparities of care, opioid crisis, wellness, burnout, pandemic)	1%
Total:	100%

• 86 Sub-sub-categories

ABAI Exam Blueprint

- Immunologic Disorders 45%
 - Immune inflammatory disorders 10%
 - Immunodeficiencies 16%
 - Eosinophilic & GI disorders 6%
 - Immune system & research principles 9%
 - Non-disease specific pharmacology & therapeutics 2%
 - Allergens, antigens, & extracts 2%
- Emerging Health Priorities 1%

Resources



Adobe Stock | #33706542

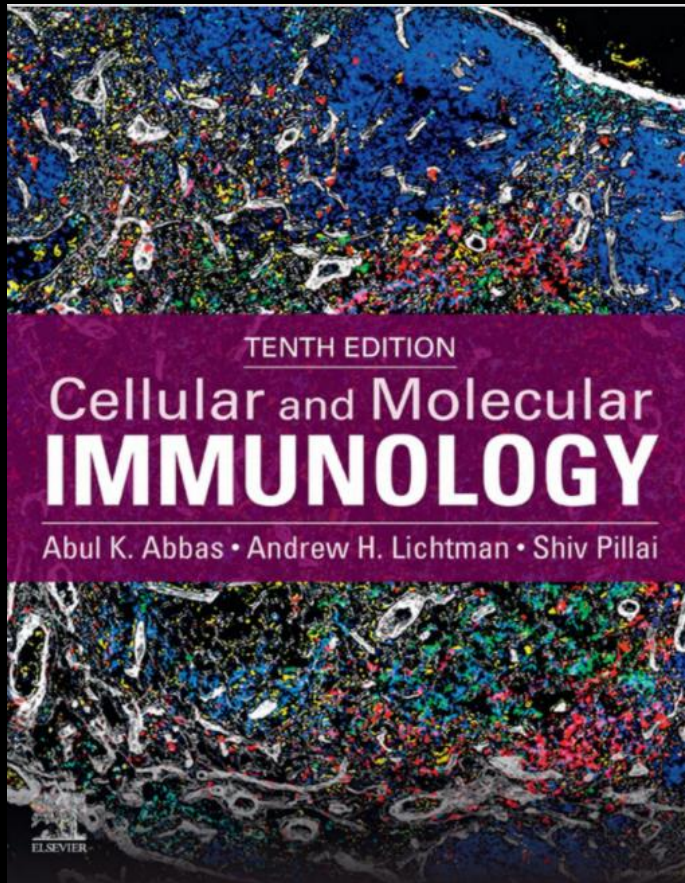
Resources

- Core
 - Basic immunology text
 - Allergy & immunology text
 - Practice parameters

Basic Immunology Text

- 5 Best Immunology Texts of 2022
 - Janeway's Immunology
 - 900+ pages
 - Kuby Immunology
 - 900+ pages
 - The Immune System – Peter Parham
 - 600+ pages
 - Fundamental Immunology – William Paul
 - 1300+ pages
 - Cellular & Molecular Immunology – Abul Abbas
 - 600+ pages

Basic Immunology Text



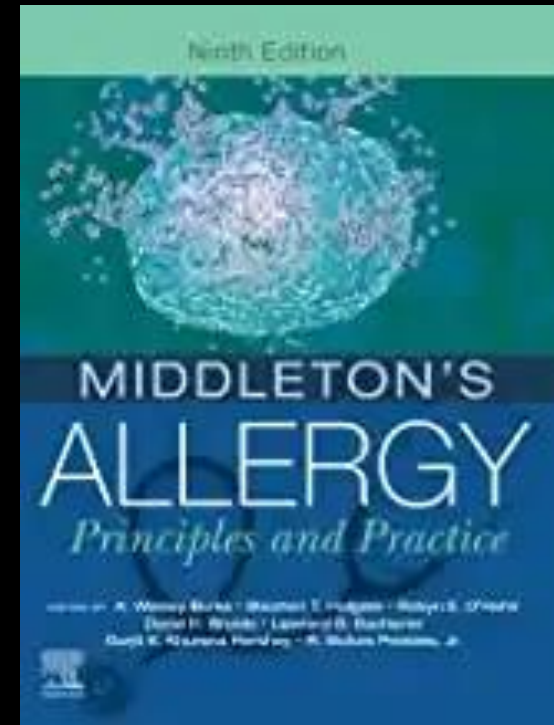
- 21 Chapters
- 3 appendixes
- 571 pages
- ~\$65
- eSupplement
 - Text, figures, etc.
 - Test question bank

Allergy & Immunology Text

- Middleton's – Burks, et al
- Patterson's – Grammer, et al
- Allergy for the Clinician – Vedanthan, et al
- Allergy & Asthma: Practical Diagnosis & Management – Mahmoudi

Allergy & Immunology Text

- Middleton's
 - 2 volumes
 - 99 chapters
 - 1600+ pages
 - ~\$295 hardcover, ~\$210 eBook
 - On-line question bank



Practice Parameters

- 16 topic areas
- ~ 25 practice parameters remain timely & relevant

Practice Parameters

Allergy Testing

[Allergy diagnostic testing: an updated practice parameter \(2008\)](#)

Anaphylaxis

[Anaphylaxis—a 2020 practice parameter update, systematic review, and Grading of Recommendations, Assessment, Development and Evaluation \(GRADE\) analysis \(2020\)](#)
[Anaphylaxis - a practice parameter update \(2015\)](#)
[Emergency department diagnosis and treatment of anaphylaxis: a practice parameter \(2014\)](#)

Asthma

[Exercise-induced bronchoconstriction practice parameter update \(2016\)](#)
[Management of acute loss of asthma control in the yellow zone: a practice parameter \(2014\)](#)
[Exercise-induced bronchoconstriction \(2010\)](#)
[Attaining optimal asthma control: a practice parameter \(2005\)](#)
[Algorithm for the diagnosis and management of asthma: a practice parameter update \(1998\)](#)
[Practice parameters for the diagnosis and treatment of asthma \(1995\)](#)

Cockroach Allergy

[Environmental assessment and exposure reduction of cockroaches: A practice parameter \(2013\)](#)

Dust Mite

[Environmental assessment and exposure control of dust mites: a practice parameter \(2013\)](#)

Drug Allergy

[Drug allergy: an updated practice parameter \(2010\)](#)

Eosinophilic Esophagitis

[AGA institute and the joint task force on allergy-immunology practice parameters clinical guidelines for the management of eosinophilic esophagitis](#)

Food Allergy

[Food allergy: a practice parameter update \(2014\)](#)
[Food allergy: a practice parameter \(2006\)](#)
[Peanut allergy diagnosis: A 2020 practice parameter update, systematic review, and GRADE analysis \(December 2020\)](#)

Immunotherapy

[Sublingual immunotherapy: A focused allergen immunotherapy practice parameter update \(2017\)](#)
[Allergen immunotherapy: a practice parameter third update \(2011\)](#)

Pet/Rodent

[Environmental assessment and exposure control: a practice parameter—furry animals \(2012\)](#)
[Environmental assessment and exposure reduction of rodents: a practice parameter \(2012\)](#)

Primary Immunodeficiency

[Practice parameter for the diagnosis and management of primary immunodeficiency \(2015\)](#)

Rhinitis

[Rhinitis 2020: A practice parameter update](#)
[Treatment of seasonal allergic rhinitis - An evidence-based focused 2017 guideline update \(2017\)](#)
[Allergy and immunology practice parameters and guidelines. The new normal.](#)
[The diagnosis and management of rhinitis: an updated practice parameter \(2008\)](#)

Sinusitis

[Diagnosis and management of rhinosinusitis: a practice parameter update \(2014\)](#)
[The diagnosis and management of sinusitis: a practice parameter update \(2005\)](#)

Skin Allergy

[Contact dermatitis: a practice parameter Update \(2015\)](#)
[The diagnosis and management of acute and chronic urticaria: a practice parameter update \(2014\)](#)
[A focused parameter update: Hereditary angioedema, acquired C1 inhibitor deficiency, and angiotensin-converting enzyme inhibitor-associated angioedema \(2013\)](#)
[Atopic dermatitis: a practice parameter update \(2013\)](#)

Stinging Insect Allergy

[Stinging insect hypersensitivity - A practice parameter update \(2016\)](#)
[Stinging insect hypersensitivity \(2011\)](#)

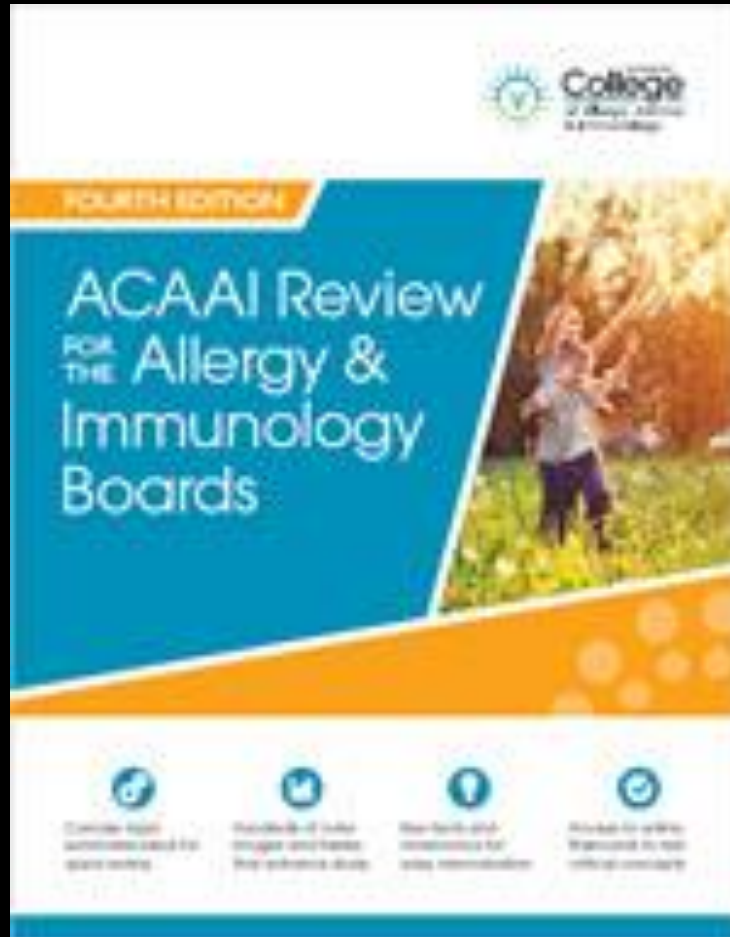
Vaccines

[Administration of influenza vaccines to egg allergic recipients: A practice parameter update \(2017\)](#)
[Adverse reactions to vaccines \(2012\)](#)
[Administering influenza vaccine to egg allergic recipients \(2010\)](#)

Resources

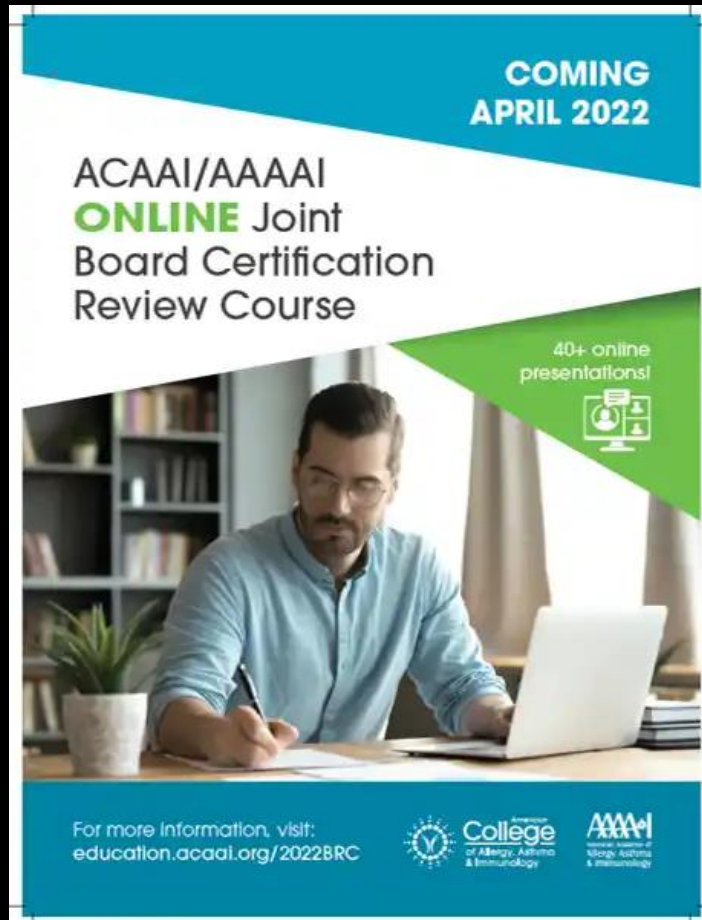
- Core
 - Basic immunology text
 - Allergy & immunology text
 - Practice parameters
- Adjunct
 - Board review book
 - Board review course
 - Northwestern syllabus
 - Question mountain
 - AAAAI website
 - ACAAI website
 - COLA virtual lectures

ACAAI Board Review Book



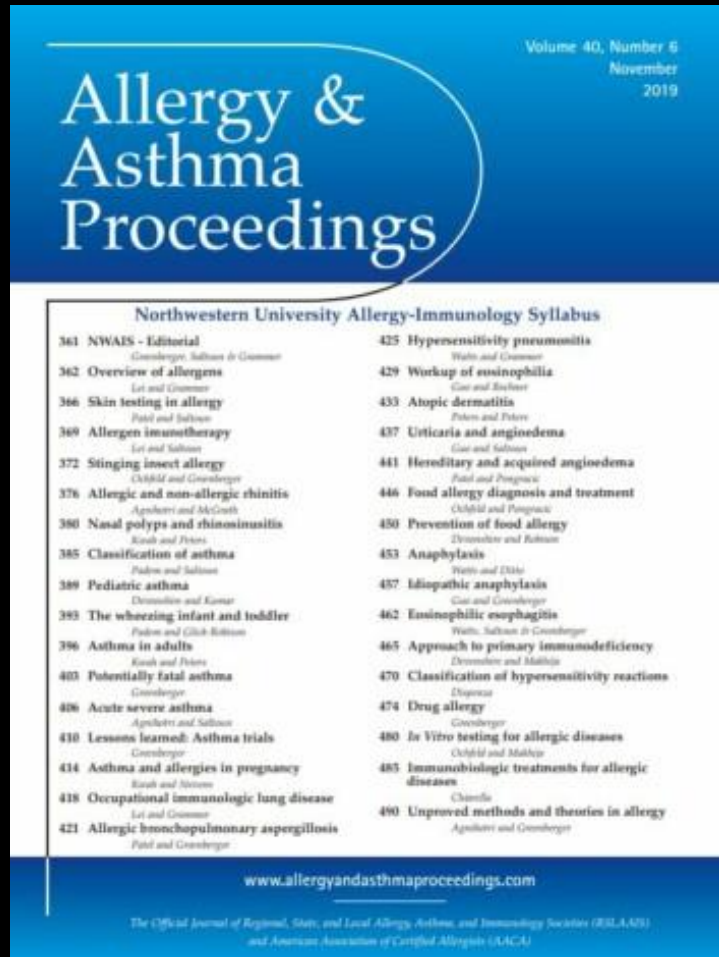
- 4th Edition 2021
- 550 pages
- 600 flashcards
- Cost
 - ACAAI Member FIT
 - \$152 print & online
 - \$65 online only
 - ACAAI Member
 - \$182 print & online
 - \$79 online only

Board Review Course



- 2022 Enrollment opens April 2022
- 2020 Course
 - Virtual only
 - 33 topics/speakers
- Cost 2020 Course
 - AAAAI/ACAII FIT
 - \$250
 - AAAAI/ACAII Member
 - \$350

NWU Syllabus in AAP



- 2019 Northwestern University Syllabus
- 133 pages
- 31 topics/chapters
- Subscribers
 - Have it
 - Download pdf
- Non-subscribers
 - \$25 + shipping

Question Mountain

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https://www.questionmountain.com/index_sp?user=allergy

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Allergy & Immunology board review

- Achieve excellence in **Allergy** boards and test preparation. Join TODAY. Computer based testing format. Make use of our great rates!
- High-yield questions. Detailed explanations. Follow test scores over time. A total of **200 questions** in **8 categories**: Immune cells (28), Anatomy and physiology (10), Research methods (23), Hypersensitivity (49), Immunology (35), Pharmacology (10), Diagnosis (10), Immune mechanisms (35).
- No software required. Compatible with PC, Mac, and Linux. Mobile-optimized for questions on the go!

Question Distribution

Pharmacology (10)

Immunology (35)

Hypersensitivity (49)

Diagnosis (10)

Immune mechanisms (35)

Immune cells (28)

Anatomy and physiology (10)

Research methods (23)

TOTAL=200

Categories=8

Subscriptions

Days (expires)	Rate
30 days (Mar 14, 2022)	\$39.99
60 days (Apr 13, 2022)	\$49.99
90 days (May 13, 2022)	\$59.99
180 days (Aug 11, 2022)	\$79.99

Buy now!

Institutions/ groups

Question Mountain

- 200 questions
- 8 Categories
 - Hypersensitivity (49)
 - Immune mechanisms (35)
 - Immunology (35)
 - Immune cells (28)
 - Research methods (23)
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On Line Resources

The screenshot shows the homepage of the American Academy of Allergy, Asthma & Immunology (AAAAI). The header includes navigation links: Annual Meeting, Ask the Expert, Journals, Find An Allergist / Immunologist, Check Pollen Counts, and Donate. A search bar is also present. The main navigation bar lists: Allergist Resources, Practice Management, Professional Education, Conditions & Treatments, Tools for the Public, and About. The central banner features a smiling female doctor in a white coat with a stethoscope, examining a young girl. Text on the left reads: "American Academy of Allergy, Asthma & Immunology" and "The American Academy of Allergy, Asthma & Immunology (AAAAI) is the leading membership organization of more than 7,000 allergists / immunologists and patients' trusted resource for allergies, asthma and immune deficiency disorders." A blue button labeled "AAAAI Member Portal" with a "MY MEMBERSHIP" link is prominently displayed. Below the banner, there is a section for "Latest News for Members" with a link to "AAAAI Member Updates" dated 3/4/2022. A tweet from @AAAAI_org is also visible, discussing asthma treatment updates.

The screenshot shows the homepage of the American College of Allergy, Asthma & Immunology (ACAAI). The header includes navigation links: Annual Scientific Meeting, Events, Career Center, and Member Directory. The main navigation bar lists: About Us, Professional Education, Practice Management, Advocacy, and Publications. The central banner features a woman with glasses looking upwards. Text on the right reads: "ACAAI is the premier organization for over 6,000 practicing allergists, immunologists and health care professionals." A blue button labeled "For Members" is prominently displayed. Below the banner, there is a section for "Advocacy Insider / February 11, 2022" with the headline "Now is the time to step forward and step up for allergy!". To the right, there is a section for "COVID-19: What You Need to Know" with the text "We have important information to help you counsel patients and manage your practice." At the bottom right, there is an image of US dollar bills.



American Academy of Allergy, Asthma & Immunology

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Latest News for Members

[AAAAI Member Updates](#)

2/4/2022

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Tweets by @AAAAI_org



AAAAI

@AAAAI_org

Allergists & clinicians thought all #asthma was the same & treated it with similar treatments. Researchers & clinicians have learned this is not true. There are differences in types of lung inflammation & clinical features of the disease (e.g. triggers).
[ow.ly/gSqT50HR9wI](#)

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ow.ly/gSq5t50HR9w1

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For Fellows-in-Training

For Fellows-in-Training Overview

Browse our resources for both new fellows and for those winding up their training. You will find information on becoming an in-training member of the AAAAI, applying for grants and awards, attending the AAAAI Annual Meeting, clinical resources and much more.

AAAAI Constituency Groups

The AAAAI is comprised of varying and unique constituencies with a similar mission—advancing the practice of allergy / immunology and providing knowledge so you may better serve your patients. We encourage you to participate in one or more of these constituency groups.

Continuing Education in Allergy and Immunology

The AAAAI provides a variety of continuing education opportunities to help you stay current with the latest discoveries in the field and apply these findings to research and clinical activities.

In-training Exam for Fellows Timeline

Review the timeline for the next In-Training Exam.

The Fellow-in-Training (FIT)/Faculty Reviewer Program

This program is intended to facilitate faculty mentorship to assist FITs in learning how to review for scientific journals.

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Timothy J. Craig, DO, FAAAAI

Fellows-In-Training Committee Board Representative

Mari Durán

Fellows-In-Training Committee Staff Liaison

FIT Membership

- [In-Training Membership](#)

Connect with Other FITs

- [FIT Committee](#) [↗](#) (The FIT Committee is listed under the Division drop down menu.)
- [FIT Facebook](#) [↗](#)
- [FIT Instagram](#) [↗](#)
- [FIT Listserv](#)
- [FIT Twitter](#) [↗](#)

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- [AAAAI/ACAAI Board Review Course](#) [↗](#)
- [American Board of Allergy and Immunology \(ABAI\)](#)
- [In-Training Examination Timeline](#)

Career Development

- [Career Connections](#) [↗](#)
- [Career Paths in Allergy and Immunology Session 1](#) [↗](#)
- [Why A/I?](#)

Educational Resources

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- Already covered



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- [Podcasts](#)
- [Practice Management Tools](#)
- [Practice Parameters](#)
- [Webinars](#) 

Statements & Practice Parameters

Statements & Practice Parameters Overview

AAAAI statements and practice parameters assist healthcare professionals by providing information on clinical and scientific advances.

Current Statements and Work Group Reports

Access current AAAAI position statements and work group reports.

Archived Statements and Work Group Reports

Access archived AAAAI position statements and work group reports that were created more than 5 years ago.

Practice Parameters and Guidelines

Practice parameters are designed to assist clinicians in providing high quality assessment and treatment that is consistent with the best available scientific evidence and clinical consensus.

Development and Review Process for New Statements

Learn more on how AAAAI experts oversee the statement review and development process.

Consultation and Referral Guidelines

These consultation and referral guidelines assist patients and healthcare professional determine when a referral to an allergist / immunologist is needed.

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Access archived AAAAI position statements and work group reports that were created more than 5 years ago.

Practice Parameters and Guidelines

Practice parameters are designed to assist clinicians in providing high quality assessment and treatment that is consistent with the best available scientific evidence and clinical consensus.

Development and Review Process for New Statements

Learn more on how AAAAI experts oversee the statement review and development process.

Consultation and Referral Guidelines

These consultation and referral guidelines assist patients and healthcare professional determine when a referral to an allergist / immunologist is needed.

Practice Parameters +

<https://www.aaaai.org/Allergist-Resources/Statements-Practice-Parameters/Practice-Parameters-Guidelines>

Allergy Testing

[Allergy diagnostic testing: an updated practice parameter \(2008\)](#)

Anaphylaxis

[Anaphylaxis—a 2020 practice parameter update, systematic review, and Grading of Recommendations, Assessment, Development and Evaluation \(GRADE\) analysis \(2020\)](#)
[Anaphylaxis - a practice parameter update \(2015\)](#)
[Emergency department diagnosis and treatment of anaphylaxis: a practice parameter \(2014\)](#)

Asthma

[Exercise-induced bronchoconstriction practice parameter update \(2016\)](#)
[Management of acute loss of asthma control in the yellow zone: a practice parameter \(2014\)](#)
[Exercise-induced bronchoconstriction \(2010\)](#)
[Attaining optimal asthma control: a practice parameter \(2005\)](#)
[Algorithm for the diagnosis and management of asthma: a practice parameter update \(1998\)](#)
[Practice parameters for the diagnosis and treatment of asthma \(1995\)](#)

Cockroach Allergy

[Environmental assessment and exposure reduction of cockroaches: A practice parameter \(2013\)](#)

Dust Mite

[Environmental assessment and exposure control of dust mites: a practice parameter \(2013\)](#)

Drug Allergy

[Drug allergy: an updated practice parameter \(2010\)](#)

Eosinophilic Esophagitis

[AGA institute and the joint task force on allergy-immunology practice parameters clinical guidelines for the management of eosinophilic esophagitis](#)

Food Allergy

[Food allergy: a practice parameter update \(2014\)](#)
[Food allergy: a practice parameter \(2006\)](#)
[Peanut allergy diagnosis: A 2020 practice parameter update, systematic review, and GRADE analysis \(December 2020\)](#)

Immunotherapy

[Sublingual immunotherapy: A focused allergen immunotherapy practice parameter update \(2017\)](#)
[Allergen immunotherapy: a practice parameter third update \(2011\)](#)

Pet/Rodent

[Environmental assessment and exposure control: a practice parameter—furry animals \(2012\)](#)
[Environmental assessment and exposure reduction of rodents: a practice parameter \(2012\)](#)

Primary Immunodeficiency

[Practice parameter for the diagnosis and management of primary immunodeficiency \(2015\)](#)

Rhinitis

[Rhinitis 2020: A practice parameter update](#)
[Treatment of seasonal allergic rhinitis - An evidence-based focused 2017 guideline update \(2017\)](#)
[Allergy and immunology practice parameters and guidelines. The new normal](#)
[The diagnosis and management of rhinitis: an updated practice parameter \(2008\)](#)

Sinusitis

[Diagnosis and management of rhinosinusitis: a practice parameter update \(2014\)](#)
[The diagnosis and management of sinusitis: a practice parameter update \(2005\)](#)

Skin Allergy

[Contact dermatitis: a practice parameter Update \(2015\)](#)
[The diagnosis and management of acute and chronic urticaria: a practice parameter update \(2014\)](#)
[A focused parameter update: Hereditary angioedema, acquired C1 inhibitor deficiency, and angiotensin-converting enzyme inhibitor-associated angioedema \(2013\)](#)
[Atopic dermatitis: a practice parameter update \(2013\)](#)

Stinging Insect Allergy

[Stinging insect hypersensitivity - A practice parameter update \(2016\)](#)
[Stinging insect hypersensitivity \(2011\)](#)

Vaccines

[Administration of influenza vaccines to egg allergic recipients: A practice parameter update \(2017\)](#)
[Adverse reactions to vaccines \(2012\)](#)
[Administering influenza vaccine to egg allergic recipients \(2010\)](#)

Additional Evidence-Based Guidelines and Resources

[A Consensus Approach to the Primary Prevention of Food Allergy Through Nutrition Guidance from the American Academy of Allergy, Asthma, and Immunology, American College of Allergy, Asthma, and Immunology, and the Canadian Society for Allergy and Clinical Immunology \(January 2021\)](#)

[2020 Focused Updates to the Asthma Management Guidelines: A Report from the National Asthma Education and Prevention Program Coordinating Committee Expert Panel Working Group \(December 2020\)](#) [🔗](#)

[Intermittent Inhaled Corticosteroids and Long-Acting Muscarinic Antagonists for Asthma \(March 2018\)](#) [🔗](#)

[Role of Immunotherapy in the Treatment of Asthma \(March 2018\)](#) [🔗](#)

[Clinical Consensus Statement: Balloon Dilation of the Sinuses \(February 2018\)](#) [🔗](#)

[Addendum guidelines for the prevention of peanut allergy in the United States: Report of the National Institute of Allergy and Infectious Diseases-sponsored expert panel \(January 2017\)](#)

[Indoor Environmental Control Practices and Asthma Management \(October 2016\)](#) [🔗](#)

[Consensus Communication on Early Peanut Introduction and the Prevention of Peanut Allergy in High-Risk Infants \(June 2015\)](#) [🔗](#)

[Quality Measures and Their Importance to Allergy/Immunology - The Journal of Allergy and Clinical Immunology In Practice \(January 2015\)](#) [🔗](#)

[Summary of the New Food Allergy Guidelines for Primary Care Physicians \(January 2012\)](#)

[Summary of the New Food Allergy Guidelines for Pediatricians \(September 2011\)](#)

[Guidelines for the diagnosis and management of food allergy in the United States: Report of the NIAID-sponsored expert panel \(2010\)](#)


[Management of food allergy in the school setting \(AAP clinical report, 2010\)](#)

[Expert panel report 2 \(EPR-2\): Guidelines for the diagnosis and management of asthma \(2007\)](#) [🔗](#)

[National Guidelines Clearinghouse](#) [🔗](#)


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For Fellows-in-Training

For Fellows-in-Training Overview

Browse our resources for both new fellows and for those winding up their training. You will find information on becoming an in-training member of the AAAAI, applying for grants and awards, attending the AAAAI Annual Meeting, clinical resources and much more.

AAAAI Constituency Groups

The AAAAI is comprised of varying and unique constituencies with a similar mission—advancing the practice of allergy / immunology and providing knowledge so you may better serve your patients. We encourage you to participate in one or more of these constituency groups.

Continuing Education in Allergy and Immunology

The AAAAI provides a variety of continuing education opportunities to help you stay current with the latest discoveries in the field and apply these findings to research and clinical activities.

In-training Exam for Fellows Timeline

Review the timeline for the next In-Training Exam.


The Fellow-in-Training (FIT)/Faculty Reviewer Program


This program is intended to facilitate faculty mentorship to assist FITs in learning how to review for scientific journals.

Continuing Education in Allergy and Immunology

The AAAAI provides a variety of continuing education opportunities to help you stay current with the latest discoveries in the field and apply these findings to research and clinical activities. The majority of these activities are designated for Category 1 credit towards the AMA Physician's Recognition Award. The AAAAI is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide CME for physicians.

The AAAAI Annual Meeting is the premier continuing education event. It provides an opportunity for physicians to earn up to 50 Category 1 credits. In addition, a variety of education activities are accredited by the AAAAI each year. These include both live meetings and print and online enduring materials. Some are developed by the AAAAI, and several are completed through joint efforts with academic institutions, lay and non-profit organizations, and the Regional, State and Local Allergy, Asthma and Immunology Societies (RSLAAIS).

CME credits offered by the AAAAI can also support allergist/immunologists participating in Maintenance of Certification[®] through the [American Board of Allergy and Immunology \(ABAI\)](#) .


A list of current AAAAI CME offerings can be found in the [Continuing Education Center](#) .


For additional information, contact the [AAAI executive office](#) at (414) 272-6071.

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Allergens, Allergy Testing & Allergy Therapeutics	Allergic & Immunologic Skin Diseases
Allergy Office Practice	Anaphylaxis, Urticaria & Angioedema
Asthma	Autoimmune & Autoinflammatory Disorders
Drug Allergy, Insect Allergy & Vaccines	Food Allergy
Immune Mechanisms	Immunodeficiency
Lung Diseases Other Than Asthma	Mast Cell & Eosinophilic Disorders
Research Principles	Rhinosinusitis & Ocular Allergy


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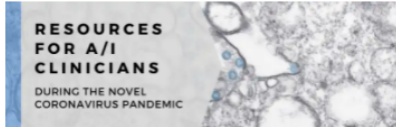
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February 26 - March 1, 2021
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Resources for A/I Clinicians During the COVID-19 Pandemic




The AAAAI is committed to providing you with resources that will help you navigate coronavirus disease 2019 (COVID-19).
[This resource page](#) will be continually updated as we learn more. We encourage you to bookmark it and check back often.

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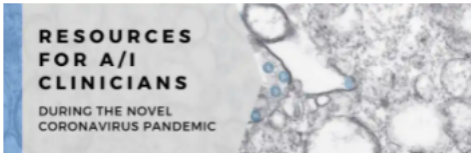
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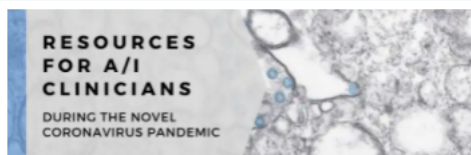
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MEDICAL EDUCATORS

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DIRECTORS ASSEMBLY
TOOLBOX



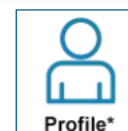
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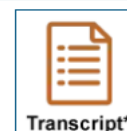
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The Program Directors Assembly Toolbox includes a variety of resources for use by training program directors in the management of their programs and the training of their fellows.

Please contact pd@aaaai.org with questions or for more information.

2022 Virtual Program Directors Assembly Winter Meeting

JANUARY 8, 2022

[Welcome and Announcements/Presidential Welcome and Updates](#) (click for video)

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AAAAI Teaching Slides

AAAAI Telemedicine Resources

[CIS Webinars](#)

[Conferences On-line Allergy \(COLA\)](#)

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The Journal of Allergy and Clinical Immunology

[The Journal of Allergy and Clinical Immunology: In Practice](#)

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Developing and Maintaining Excellence in Allergy/Immunology
Fellowships Training Programs Session

RECORDING OF LIVE ZOOM SESSION:

DEVELOPING AND MAINTAINING EXCELLENCE IN ALLERGY/IMMUNOLOGY
FELLOWSHIPS TRAINING PROGRAMS SESSION

DEVELOPING AND MAINTAINING EXCELLENCE IN ALLERGY/IMMUNOLOGY
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Webinars

Resources

- » WEBbook of Biologic Therapies
- » Find an Immunologist
- » Job Board
- » Video Library
- » Webinars
- » DLI Lab Directory
- » Funding/Grants
- » Advocacy
- » Related Organizations

CIS is pleased to provide recordings of our webinar series of immune deficiency case presentations. Hosted by the ECI Committee, this interactive electronic format emphasizes discussion of interesting cases where we can all learn from each other.

Registration is free and all are welcome!

Please note: CME is not offered for this webinar series, whether live or recorded.

All Webinar Recordings

Present During a Future Webinar

December 21, 2021



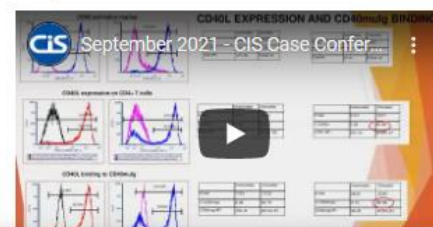
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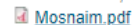
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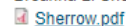
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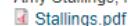
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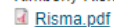
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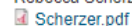
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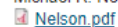


Developing and Maintaining Excellence in Allergy/Immunology Fellowships Training Programs Session

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Joseph S Yusin, MD, FAAAAI, ACGME RRC Allergy Immunology Chair
[ACGME Update.pdf](#)

ERAS/NRMP Update
Amal H. Assa'ad, MD FAAAAI, ERAS/NRMP Liaison
[ERAS-NRMP Update.pdf](#)

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JANUARY 9, 2021

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Michael R. Nelson, MD PhD
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Gerald B. Lee, MD
[Video](#)

How to Identify and Address Bias/Discrimination/Racism Faced by Fellows and Faculty
Bridgette L. Jones, MD
[Video](#)

How to Increase Diversity in Faculty and Trainees
Tamara T. Perry, MD
[Video 1](#)
[Video 2](#)

Novel Approaches to Virtual Learning
Marie Cavuoto Petrizzo, MD
[Video 1](#)
[Video 2](#)

How to Engage Fellows During Telemedicine Visits
Sofija Volertas, MD
[Video 1](#)
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Leveraging the Program Directors Network to Identify Senior Mentors in A/I
Paul J. Dowling, MD, Edwin H. Kim, MD, Kimberly A. Bisma, MD PhD and Rebecca

[Delayed Hypersensitivity Skin Testing Competency - 2014 with milestone](#)

[Drug Allergy Drug Desensitization Challenge - 2014 with milestones](#)

[Immediate Hypersensitivity - 2012](#)

[Immediate Hypersensitivity Nurse - 2012](#)

[Immunoglobulin Replacement Therapy - 2014 with milestones](#)

[Immunotherapy Prescribing Mixing Handout - 2014 with milestones](#)

[Oral Food Challenge - 2014 with milestones](#)

[Patch Test - 2012](#)

[Physical Urticaria - 2014 with milestones](#)

[Pulmonary Function Testing - 2014 with milestones](#)

Virtual Annual Meeting Videos

[2019 VAM - Asthma & Immune Mechanisms](#)

[2019 VAM - Allergens, Allergy Testing, Allergy Therapeutics](#)

[2019 VAM - Allergy Office Practice](#)

[2019 VAM - Food Allergy](#)

Practice Management Resources

FIT/New Allergist Track (3 hours – each topic is 45 minutes)


- Negotiating Employment Contracts
- Business Management Basics
- Marketing Your Practice

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 [Delayed Hypersensitivity Skin Testing Competency - 2014 with milestone](#)


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 [Immediate Hypersensitivity - 2012](#)


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 [Immunoglobulin Replacement Therapy - 2014 with milestones](#)

 [Immunotherapy Prescribing Mixing Handout - 2014 with milestones](#)

 [Oral Food Challenge - 2014 with milestones](#)

 [Patch Test - 2012](#)

 [Physical Urticaria - 2014 with milestones](#)

 [Pulmonary Function Testing - 2014 with milestones](#)

Virtual Annual Meeting Videos

[2019 VAM - Asthma & Immune Mechanisms](#)

[2019 VAM - Allergens, Allergy Testing, Allergy Therapeutics](#)

[2019 VAM - Allergy Office Practice](#)

[2019 VAM - Food Allergy](#)

Practice Management Resources

FIT/New Allergist Track (3 hours – each topic is 45 minutes)


- Negotiating Employment Contracts
- Business Management Basics
- Marketing Your Practice

ACGME Requirements

 [Update for 2020](#)

Alumni Surveys

Use the documents here to survey program alumni after fellowship.

 [Alumni Survey: Year One Post Graduation](#)

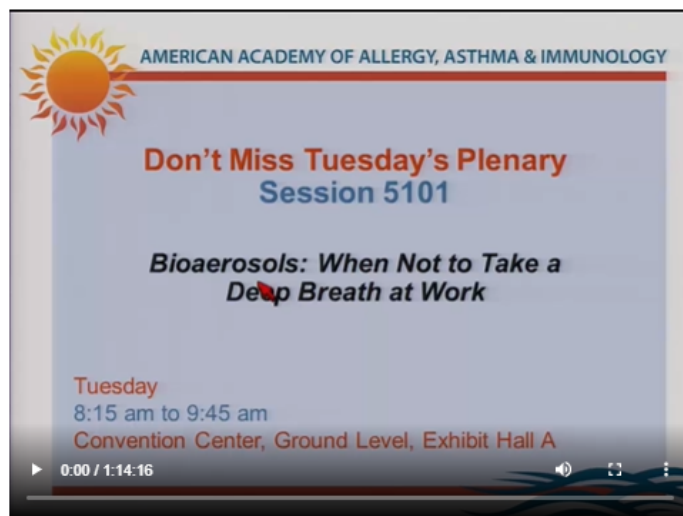
 [Alumni Survey: Years 2 & 5 of Fellowship](#)

Education Modules

The files below contain education modules for use in allergy/immunology fellowship programs.



Hypereosinophilic Disorder
Amy Klion, MD and Princess U. Ogbogu, MD FAAAAI
2014 AAAAI Annual Meeting

 [PowerPoint Presentation](#)



Coming soon:

variety of topics to help position you for success. The panel will cover these and many other benchmarks, negotiation strategies for employment agreements/contracts, and how to set a career development plan.

 [Download slides for this session: Part 1](#)  [Part 2](#)

Allergy Practice Options: What's Your Best Fit?

Our panelists will describe what it's like to work in a solo, single specialty and multispecialty practice setting and the issues unique to each.

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Choosing Your Correct Career Path

A primer for getting started in practice, from preparing for interviews to contract negotiation strategies. The presenters will cover the pros and cons of both private and academic practice.

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Physician Wellness: Avoiding Burnout, Finding Balance

Burnout continues to be widespread in medicine. This session will help you recognize the symptoms of burnout and provide practical tips for both combatting burnout and keeping it at bay.

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Building Patient Connections With Technology and Social Media

Your patients want to connect with you online. Are you leveraging the right online tools to maximize patient engagement and satisfaction? Presenters will show you how your website, Facebook page, patient portal, text messaging and other tools can help you more fully connect with your current and future patients.

 [Download the slides for this session.](#)

Demonstrating the Value of the Allergist in Academics and Private Practice

The healthcare and regulatory environment that physicians operate in is evolving rapidly. Reimbursement for physician services is changing, and compensation for employed physicians is increasingly based on outcomes prioritized by the healthcare organization. In this environment, how can you demonstrate the value of allergy services to your organization, payers, referring physicians and the public? This session will explore ways the allergist in private or academic practice can begin meeting these challenges.

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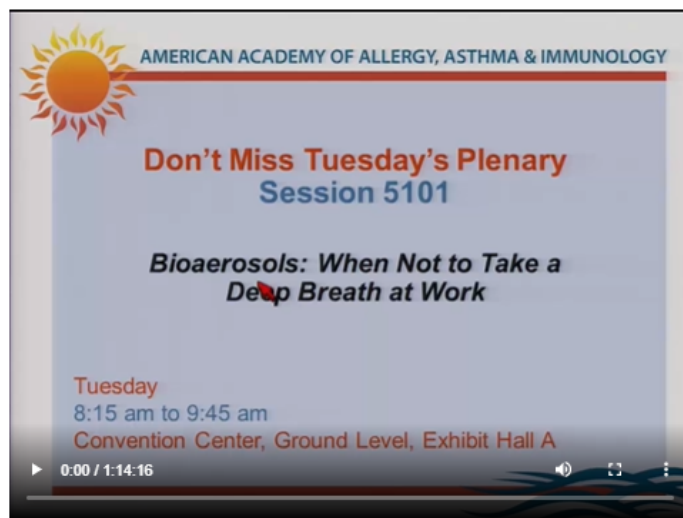
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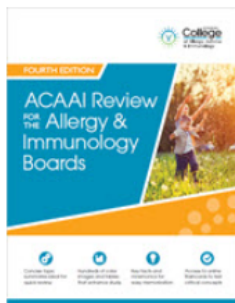
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22.00 MOC

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The Board Review Corner contains over 350 review questions developed from selected allergy and immunology textbooks by members of the FIT committee to help hone your Board preparedness. Questions from the current year organized into months and are available as a PDF document and an online quiz. Older questions are sorted by board exam topic for your review.

Questions? [Contact your FIT representative.](#)

Like review questions? You might also like **AIM** - Allergy & Immunology Medicine Self-Assessment program. [Learn more.](#)

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January Structure & Function of Allergens PDF Quiz	February	March	April
May	June	July	August
September	October	November	December

2021			
January Reactions to Foods and Drug Additives PDF Quiz	February Antigen Recognition by B-cell and T-cell receptor PDF Quiz	March Antigen Presentation to T Cells PDF Quiz	April The Development of B and T Lymphocytes PDF Quiz
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September The Generation of Lymphocyte Antigen Receptors PDF Quiz	October The Mucosal Immune System PDF Quiz	November The Immune System in Health and Disease PDF Quiz	December Genetics and Epigenetics in Allergic Disease and Asthma PDF Quiz

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Immune Mechanisms PDF Quiz	Cells Involved in Immune Responses PDF Quiz	Anatomy, Physiology, Pathology PDF Quiz	Hypersensitivity Disorders PDF Quiz	Immunological Disorders PDF Quiz
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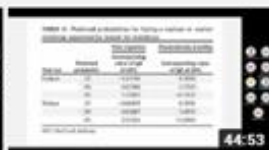
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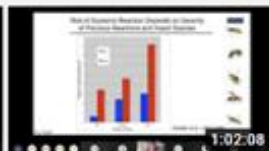
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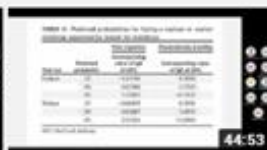
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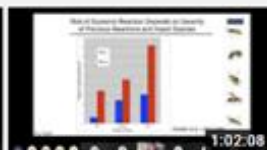
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October 2009 • Volume 103, Number 4, Supplement 1

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Editor:

Sami L. Bahna, MD, DrPH

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COVID-19: What You Need to Know

We have important information to help you counsel patients and manage your practice.





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Course Catalog

Resources ▾

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MOC ▾

FITs/Board Review ▾

Webinars ▾

My Learning

Main page

Courses

TOPIC

- Any - ▾

TYPE

- Any - ▾

RESET

Title	Non-member Price	Member price	Credits (Hours)	Date
2019 Financial Trends for Allergists: how do you compare?	FREE	FREE	NONE	10/15/2019 to 10/14/2022
2021 Coding for Allergy/Immunology	\$25.00	FREE	NONE	12/09/2020 to 06/30/2022
A/I Practice Survival during COVID-19: A Town Hall	\$25.00	FREE	NONE	04/02/2020 to 04/21/2022
ACAAI Review for the Allergy & Immunology Boards, Fourth Edition	\$199.00	\$159.00	NONE	01/04/2021 to 01/03/2024
AIM Self-Assessment	\$299.00	\$199.00	22.00	07/06/2020 to 07/05/2023
Allergen Extract Mixing Quiz: ACAAI Members 2022	FREE	FREE	NONE	01/01/2022 to 12/31/2022
Allergen Extract Mixing Quiz: Non-members 2022	\$100.00	FREE	NONE	01/01/2022 to 12/31/2022
Allergen Immunotherapy - Dust Mites, Ragweed & More	FREE	FREE	1.00	12/07/2021 to 12/31/2022
Allergy Office: Billing Biologics ABCs	\$20.00	FREE	NONE	09/24/2018 to 12/31/2022
Allergy Office: Coding 95165	\$20.00	FREE	NONE	12/20/2018 to 12/19/2022
Allergy Office: Coding for Allergy Testing	\$20.00	FREE	NONE	09/09/2019 to 09/09/2022
Allergy Office: Coding for Immunotherapy	\$20.00	FREE	NONE	01/09/2020 to 06/30/2022
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MicroCME
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On Demand
Online Module
Self-assessment
Tools
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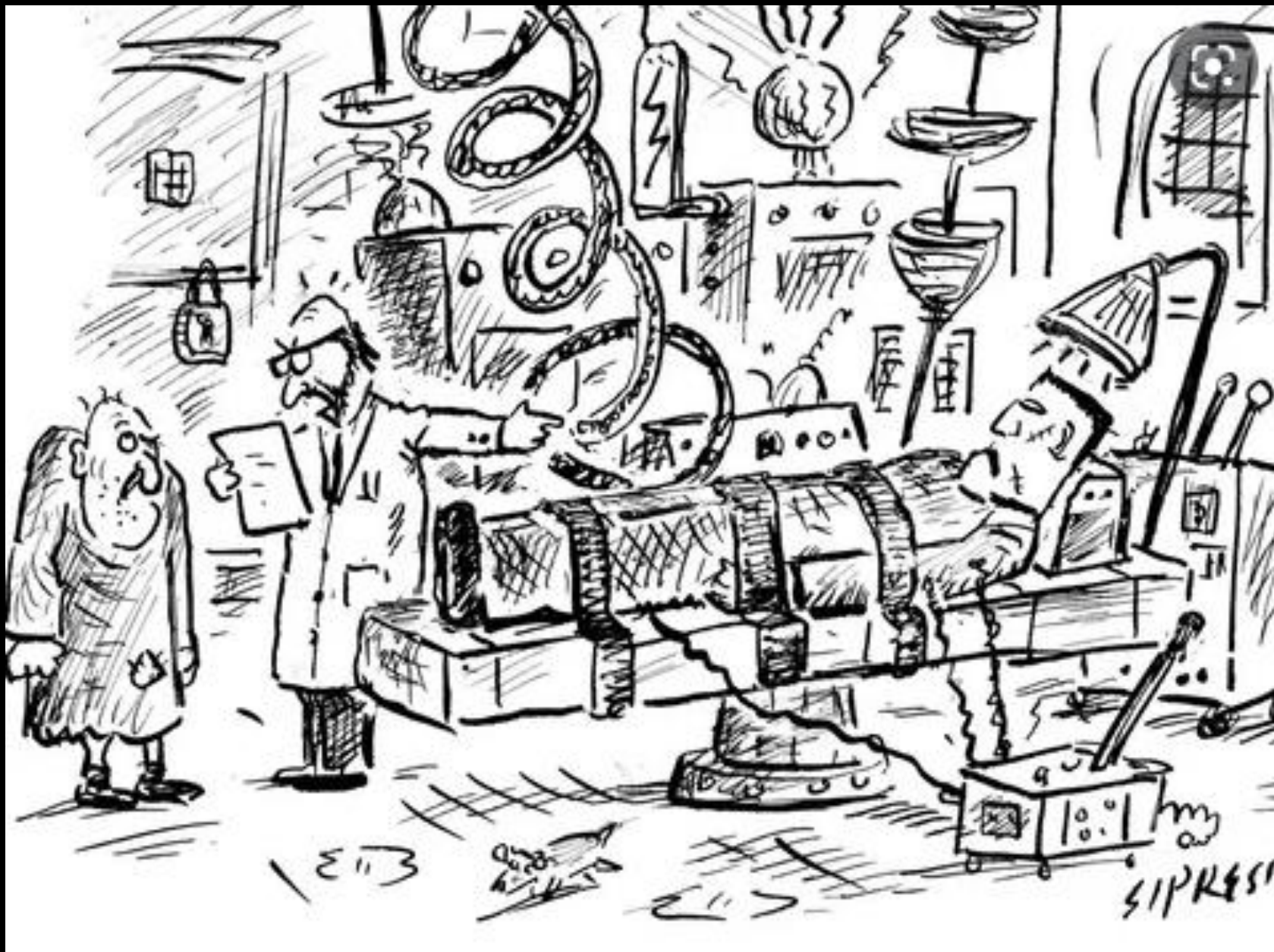
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12/31/2022

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12/31/2022

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12/31/2022



Curriculum

Curriculum

- Structure
 - Dependent on characteristics of available time
 - Daily vs weekly vs monthly
 - Time
 - 25% of fellowship time devoted to academic/other
 - 42.5 hour work week
 - ~10.5 hours for academic/other per week

Structure

- ~10.5 hours for academic/other per week
 - Daily 1.5 hours M-F = 7.5 hours per week

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Structure

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 - Daily 1.5 hours M-F = 7.5 hours per week
 - 3 hours (afternoon) per week
 - Immunodeficiency conference once per month
 - 12 monthly conferences
 - Divided to cover all the significant immunodeficiencies
 - Curriculum repeats annually – (16% boards = immunodeficiency)
 - Journal club once per month – not board focused
 - 2 afternoons/month = 3 hours fellow academic “free” time

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 - 3 days per week devoted to board review curriculum – significant preparation burden

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 - 138 conferences/annually for curriculum

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 - 2 year curricular map for Middleton’s and PP = 170 conferences cover ~50% Middleton and most PP

Structure

- 2 days per week cornucopia – low preparation burden

Structure

- 2 days per week cornucopia – low preparation burden
 - Some but not all will have board review content
 - Videos – COLA, CDC, AAAAI & ACAAI websites, videos/podcasts/webinars, board review, etc.
 - Staff lectures

⛶ APRIL 2020

DAY	DATE	MONTH	TIME	SUBJECT	PRESENTER
Wednesday	1	APR	0730-0900	CDC Webinar	Staff 1
Thursday	2	APR	0730-0900	Allergen Immunotherapy PP	Fellow 1
Friday	3	APR	0730-0900	Staff Meeting	Faculty
			1300-1600	Clinical Case Conference	Fellow 1
Monday	6	APR	0730-0900	Allergen Immunotherapy PP	Fellow 4
Tuesday	7	APR	0730-0900	Board Review Video: Urticaria and Angioedema	Staff 2
Wednesday	8	APR	0730-0900	Allergen Immunotherapy PP	Fellow 3
Thursday	9	APR	0730-0900	Allergen Immunotherapy PP	Fellow 5
			1300-1500	Immunodeficiency Conference	Fellow 2
Friday	10	APR	0730-0900	OSCE – Skin testing	Smith and Fellows
			1300-1600	Clinical Case Conference	Fellow 1
Monday	13	APR	0730-0900	Allergen Immunotherapy PP	Fellow 1
Tuesday	14	APR	0730-0900	Allergen Immunotherapy PP	Fellow 2
Wednesday	15	APR	0730-0900	Texas Allergy Meeting Presentation	Fellow 3
Thursday	16	APR	0730-0900	Board Review Video: Drug Allergy	Staff 1
Friday	17	APR	0730-0900	Allergen Immunotherapy PP	Fellow 5
			1300-1600	Clinical Case Conference	Fellow 1
Monday	20	APR	0730-0900	Fellowship Evaluation Committee	Faculty and Fellows
Tuesday	21	APR	0730-0900	Middleton Chap 59: Occupational Allergy and Asthma	Fellow 4
Wednesday	22	APR	0730-0900	Board Review Video: Pharmacology	Staff 2
Thursday	23	APR	0730-0900	Middleton Chap 60: Pathology of Asthma	Fellow 2
Friday	24	APR	0730-0900	COLA: Use of Biologics in Asthma and other Allergic Disorders	Staff 3
			1300-1600	Journal Club- WLR	Fellow 2
Monday	27	APR	0730-0900	Middleton Chap 61: ABPA and HP	Fellow 3
Tuesday	28	APR	0730-0900	Middleton: Middleton Chap 62: Immunologic Nonasthmatic Disease of the Lung	Fellow 5
Wednesday	29	APR	0730-0900	Military Training	No reading
Thursday	30	APR	0730-0900	Board Review Video: Asthma and VCD	Staff 1



Learning Environment

Learning Environment



Learning Environment

- Respect
- Safety
- Immediacy
- Relevance
- Engagement

- Malcolm Knowles, Ph.D.

Learning Environment

- Respect
 - Acknowledge prior experiences & accomplishments
 - Choice and voice in content, structure, and pace of curriculum
 - Staff involvement

Learning Environment

- Safety
 - No surprises - early familiarization with curriculum, resources, assessment tools, etc.
 - Pace is accountable/modifiable to well-being
 - No element alone determines high-stakes decisions

Learning Environment

- Immediacy
 - Patient care for some elements
 - Quizzes and other assessment tools
 - Challenge Bowl
 - In-Training Exam

Learning Environment

- Relevance
 - Patient care
 - Board exam
 - Quizzes and other assessment tools
 - Challenge Bowl
 - In-Training Exam
 - Staff involvement

Learning Environment

- Engagement
 - Group involvement
 - Staff involvement
 - Quizzes and other assessment tools
 - Challenge Bowl
 - In-Training Exam
 - Choice and voice in 2 days per week content, continuation of quizzes, overall curriculum

Assessment Tools

- Fellows
 - Self-reflection
 - Feedback from staff/PD
 - Performance on quizzes
 - Performance on In-Training Exam
- Program feedback/performance
 - Fellows' feedback
 - During fellowship
 - Recent grads
 - Board pass rate
 - In-Training Exam aggregate program data

Assessment Tools

	<u>#OfQuestions*</u>	<u>#Correct</u>	<u>National Average # Correct</u>	<u>Examinee Percentile</u>
I. Basic Science	67	43	35	85%
A. Immune mechanisms	12	8	7	71%
B. Cells Involved in Immune Responses	11	6	4	80%
C. Specific Immune Responses	17	9	8	60%
D. Laboratory Tests	18	12	9	85%
E. Anatomy / Physiology / Pathology	6	6	3	NA
F. Research Principles	3	2	1	NA
II. Clinical Science	125	102	73	100%
A. Hypersensitivity Disorders	47	42	30	100%
B. Immunological Disorders	27	19	14	91%
C. Pharmacology / Therapeutics	26	20	14	97%
D. Specific Diagnostic Modalities	14	13	8	100%
E. Allergens / Antigens	11	8	5	93%
Total Questions	192	145	108	99%

Assessment Tools

	Scores		Percentiles		National	
Total	145	76%	National	99%	Examinees	293
Basic Science	43	64%	Fellowship Year	99%	Average Score	109
Clinical Science	102	82%			Average Basic Science	35
					Average Clinical Science	73

* Item(s) discarded due to poor statistical performance

Incorrect Responses with Question Objectives

Question Number	Question Classifications and Objectives
3	II. Clinical Science A. Hypersensitivity Disorders 06. Asthma Objective: asthma, risk factors REF:Castro-Rodriguez
6	I. Basic Science C. Specific Immune Responses 1. Immediate Hypersensitivity (IgE-Mediated) Objective: REF:Middleton 7th ed pg 246-248
7	I. Basic Science F. Research Principles 1. Experimental Design Objective: Clinical trial design REF:Users' Guide to the Medical Literature, 2nd edition. Guyatt et al. Chapter
13	I. Basic Science B. Cells Involved in Immune Responses 1. Lymphocytes Objective: Memory T cell phenotype REF:Abbas, AK et al., 2012. Cellular and Molecular Immunology. Philadelphia,
14	I. Basic Science B. Cells Involved in Immune Responses 4. Eosinophils Objective: Eosinophil proliferation and survival REF:Human versus mouse eosinophils: "that which we call an eos

Assessment Tools

Item	Percent Correct	All Schools Percent Correct	Question Classifications and Objectives
1	100%	65%	II. Clinical Science B. Immunological Disorders 01. Hereditary and Acquired Angioedema Objective: HAE prophylaxis and pregnancy REF:hae
2	100%	82%	II. Clinical Science D. Specific Diagnostic Modalities 09. Molecular Diagnostics / Tissue Typing Objective: pharmacogenetics, drug allergy REF:Phillips EJ et al. J Allergy Clin Immunol
3	0%	52%	II. Clinical Science A. Hypersensitivity Disorders 06. Asthma Objective: asthma, risk factors REF:Castro-Rodriguez
4	100%	79%	I. Basic Science D. Laboratory Tests 03. Cell Surface Markers and Receptors (Flow Cytometry) Objective: REF:Manual of Clinical Laboratory Immunology, Third Edition
5	100%	76%	II. Clinical Science A. Hypersensitivity Disorders 17. Contact Hypersensitivity Objective: contact allergy, REF:Author: Donald V. Belsito
6	33%	67%	I. Basic Science C. Specific Immune Responses 1. Immediate Hypersensitivity (IgE-Mediated) Objective: REF: Middleton 7th ed pg 246-248

Summary

- ABAI board exam
- Resources
- Curriculum
- Learning environment