

Allergy & Immunology Bootcamp – Boston Ed.

David I. Hong, MD 2025 AAAAI Annual Meeting, San Diego

Disclosures

No relevant disclosures or conflicts



Learning Objectives

Describe effective curriculum development for a start-of-the-year "bootcamp" for FITs



History & Background (The What)

The Brigham and Women's Hospital (BWH) Allergy & Immunology Intro Course started as a 1 day collection of didactic presentations

- For 1st year BWH fellows in the 1990s
- Faculty from BWH and HMS (where BWH Allergy labs and offices were located) Evolved into the present-day format of lectures over 5 days in early July
- Covers both basic and clinical Immunology topics
- Faculty come from HMS, BWH, MGH, Boston Children's (BCH), DFCI, Mass Eye & Ear, and Dartmouth
- Attendees include
 - fellows from BWH, MGH, BCH, and Boston Medical Center (all years)
 - Medical students, residents, post-docs, and fellows from other specialty programs



The Who, Where, and Why

Held off-campus at a central location in the Longwood Medical Area

- HMS, BWH, Children's, DFCI, Beth Israel
- Only ~ 0.33 sq. mi in area

Intro Course serves two main purposes:

1. Education

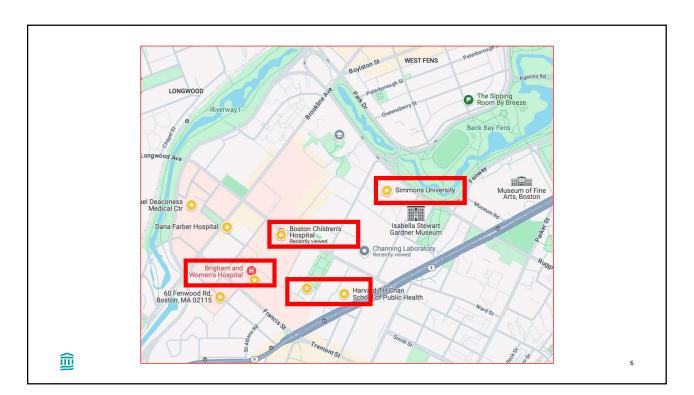
- Cover key topics relevant to A&I trainees. Relevance for other trainees too.
 - ABAI Exam Blueprint: https://www.abai.org/blueprint.asp
- Meant to be iterative and self-reinforcing for fellows each year they attend
 - Subject matter also likely to be covered again in regular didactic programs

2. Networking

- Built in breaks for meals: Boston A&I fellows meet each other and faculty from other institutions
- While primary audience is A&I fellows, audience also includes residents, postdocs, med students and trainees from non-A&I specialties



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Educational Value of Bootcamp Courses

Desirable Difficulties (Bjork & Bjork, 2011)

• Introducing learners to a large amount of material early—even if they struggle with it—creates a foundation for better retention and comprehension later. The initial challenge forces them to engage in retrieval practice and deeper processing when they revisit the material.

Pre-exposure effect (McNamara, D. S., & Kintsch, W. (1996).

• Even if learners do not fully understand complex information during an initial exposure, it helps build mental frameworks that facilitate deeper learning later.

Cognitive Load Theory (Sweller, 1988)

 While too much information at once can overwhelm learners, some exposure to a wide range of topics helps them build mental schemas. This prepares them to integrate and organize knowledge more efficiently when they revisit it in greater depth.



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The How and When

Introductory Course is organized by Drs. Mariana Castells, Patrick Brennan, and Ayobami Akenroye

- Syllabus organization, inviting faculty, moderating sessions
- Faculty expertise matched to topic
- Each speaker is asked to define specific learning objectives and write several boardstyle questions for their session(s).

Scheduled 2nd week of July, M-F 8am-3pm, after hospital orientation and onboarding have finished.

- Each training program makes arrangements to promote 1st year fellow attendance.
- At BWH, 2nd year fellows take turns covering consult pager until 3pm
- Fellows in 2nd & 3rd years are invited to attend



Role of Industry

Fully underwritten by 5-6 industry sponsors

Overhead: Space rental @ Simmons U., parking for faculty, food (breakfast, lunch, coffee breaks)

Industry reps set up booths to meet with MDs

- One of the few opportunities reps have to meet with Allergy MDs in Boston (reps not allowed on MGB hospital property without invitation)
- · Any excess of funds raised goes to a training program fund
 - Breakfast at morning conference, funds for meeting travel, books, board review prep, etc.



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Intrinsic Advantages for Boston Bootcamp

Geography

- Four A&I training programs in Boston, 8-9 new fellows every year
- · Small footprint city; Longwood Medical Area

Resources

- Faculty with deep expertise in many areas within HMS community
- Dedicated faculty organizers

Tradition

• 25+ year history of curriculum improvement



General Requirements for a Bootcamp Course

Ideally a collection of training	Provide audience and participating faculty
programs	Geographic proximity helps but is not essential
Administration	Need dedicated faculty to organize and maximize engaged learning (preferably in-person)
Resource Development w/	Underwriting overhead – venue costs, meals, parking, etc.
Industry Sponsorship	Fundraising possibilities



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Summary and Takeaways

Introductory "bootcamp" courses have great intrinsic value for fellow education

· Large volume of introductory material early on can help facilitate later learning

Bootcamps require significant time and administrative resources but create great opportunity for engagement

- With your faculty and faculty from other institutions (academic community building)
- Provides opportunities to interact with industry in a constructive way
- Provides a setting for different training programs to work and engage one another at the fellow and faculty levels.



References

McNamara, D. S., & Kintsch, W. (1996). Learning from text: Effects of prior knowledge and text coherence. Discourse Processes, 22(3), 247–288.

Bjork, R. A., & Bjork, E. L. (2011). *Making things hard on yourself, but in a good way: Creating desirable difficulties to enhance learning.* In M. A. Gernsbacher, R. W. Pew, L. M. Hough, & J. R. Pomerantz (Eds.), *Psychology and the real world: Essays illustrating fundamental contributions to society* (pp. 55-64).

Sweller, J. (1988). Cognitive load during problem solving: Effects on learning. Cognitive Science, 12(2), 257–285.





	Monday, July 8, 2024					
Time	Session Title	Faculty				
08:00am - 08:15am	BREAKFAST					
08:15am – 08:30am	Opening Remarks / Images in Allergy	Mariana Castells, M.D., Ph.D.	BWH			
08:35am – 08:50am	Immunological Foundations	Patrick Brennan, M.D., Ph.D.	BWH			
08:55am – 09:30am	B Cells and Immunoglobulin Production	Sarita Patil, M.D.	MGH			
09:35am – 10:10am	T cells and Innate Lymphoid Cells	Patrick Brennan, M.D., Ph.D.	BWH			
10:15am – 10:30am	COFFEE BREAK / EXHIBIT BOOTH TIME					
10:35am – 11:10am	Neutrophils	Peter Nigrovic, M.D.	всн			
11:15am – 11:50am	Biologics for Asthma	Ayobami Akenroye, M.B.Ch. B, M.P.H., Ph.D	вwн			
11:55am – 12:30pm	Mastocytosis and MCAS	Matthew Giannetti, M.D.	BWH			
12:35pm	LUNCH / EXHIBIT BOOTH TIME					
01:15pm - 01:50pm	CVID and Autoimmunity in PID	Jocelyn Farmer, M.D., Ph.D.	LHMC			
01:55pm – 02:30pm	The Epithelium in Allergic Disease	Lora Bankova, M.D.	BWH			
02:35pm - 03:10pm	Quality Improvement and Safety	Paige Wickner, M.D., M.P.H	BWH			



Wednesday, July 10, 2024					
Time	Session Title	Faculty			
08:00am - 08:15am	BREAKFAST				
08:15am – 08:50am	Eosinophilic GI Disorders	Wayne Shreffler, M.D., Ph.D.	MGH		
08:55am – 09:30am	Pathobiology of Asthma	Nora Barrett, M.D.	BWH		
09:35am – 10:10am	Diagnosis and Management of Asthma in Children	Bernard Kinane, M.D.	MGH		
10:15am – 10:30am	COFFEE BREAK / EXHIBIT BOOTH TIME				
10:35am – 11:10am	Urticaria	Karen Hsu Blatman, M.D.	DHMC		
11:15am – 11:50am	Aspirin Exacerbated Respiratory Disease	Kathleen Buchheit, M.D.	BWH		
11:55am –	Eosinophilia	Camellia Hernandez, M.D.	вwн		
12:35pm	LUNCH / EXHIBIT BOOTH TIME				
01:15pm - 01:50pm	Evaluating the Evidence in Allergy	Anna Feldweg, M.D.	BWH		
01:55pm – 02:30pm	Rhinitis and Sinusitis	Rachel Roditi, M.D.	BWH		
02:35pm – 03:10pm	Anti-Racism in Allergy and Immunology	Margee Louisias, M.D.	BWH		



Friday, July 12, 202•					
Time	Session Title	Faculty			
08:00am - 08:15am	BREAKFAST				
08:15am – 08:50am	Ocular Allergies	Stephen Anesi, M.D, F.A.C.S.	MERSI		
08:55am – 09:30am	Drug Allergy Across the Care Continuum	Jamie Waldron, M.D.	MGH		
09:35am – 10:10am	Drug Allergy Classification and Guidelines	Anna Wolfson, M.D.	MGH		
10:15am – 10:30am	COFFEE BREAK / EXHIBIT BOOTH TIME				
10:35am – 11:10am	Angioedema	Aleena Banerji, M.D.	MGH		
11:15am – 11:50am	Anaphylaxis	Mariana Castells, M.D. PhD	BWH		
11:55am – 12:55pm	Lunch/ CAREER PANEL	Aleena Banerji, M.D. Nora Barrett, M.D. Duane Wesemann, M.D., Ph.D. Katie Buchheit, M.D. Craig Platt, M.D., Ph.D.			
1:00pm - 02:00pm	ICE CREAM SOCIAL				