

Curriculum Vitae

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Place of Birth: Boston, MA

EDUCATION:

Month/Year	Degree (Honors)	Field(s) of Study	Institution
06/2016	BS, summa cum laude with high honors	Biochemistry (PI: Hedstrom)	Brandeis University
06/2020	MD, honors and distinction in research	Medicine (PIs: Tarabichi, Skotko)	Case Western Reserve University

POSTDOCTORAL TRAINING:

Month/Year(s)	Title	Specialty/Department	Institution
06/2020–06/2023	Resident	Pediatrics (PIs: Skotko, Azar, Smith, Mohan)	Massachusetts General Hospital <i>for Children</i>

COMMITTEE SERVICE:

Local

Year(s)	Name of Committee Dates of Role(s)	Institution/Organization Title of Role(s)
2017	Diversity Planning Committee 2017	Case Western Reserve University School of Medicine Member
2017–2018	Student Committee on Admissions 2017–2018	Case Western Reserve University School of Medicine Co-chair
2020–present	Advocacy Committee 2020–present	Massachusetts General Hospital <i>for Children</i> Member
2021	Wards Redesign Process Improvement 2021	Massachusetts General Hospital <i>for Children</i> PGY-1 Representative
2021–present	Housestaff Quality & Patient Safety Committee 2021–present	Massachusetts General Hospital <i>for Children</i> Pediatrics Representative
2021–present	Pediatric Rapid Response Team Quality Improvement Project 2021–present	Massachusetts General Hospital <i>for Children</i> Resident Representative

HONORS AND PRIZES:

Year	Name of Honor/Prize	Awarding Organization	Achievement for Which Awarded
2016	Honor society	Phi Beta Kappa	Undergraduate academics
2019	Abstract scholarship	American Thoracic Society	Four abstracts
2021	PGY-1 teaching award	Massachusetts General Hospital <i>for</i> Children	Teaching medical students

REPORT OF FUNDED AND UNFUNDED PROJECTS:**Unfunded Current Projects**

Year(s)	Title of Project Role Brief Description
2018–present	Down Syndrome Human Rights Co-investigator (PIs: Brian Skotko, MD, MPP; Karen Donelan, ScD) Creating a global quality of life map for people with Down syndrome
2021–present	Amoxicillin-clavulanate Dosing Calculator Co-investigator (Co-PI: Iman Moawad, PharmD, BCPPS) Creating a clinical decision support tool for prescribing amoxicillin-clavulanate
2021–present	Sickle Cell Organized Outpatient Transition Investigator (PI: Sharl Azar, MD) Creating a holistic pediatric to adult transition program for patients with sickle cell disease
2022–present	Cellular Therapies Chapter Co-author (Mentor: Gopi Mohan, MD, PhD) Writing a chapter about the existing cellular therapies and associated toxicities for <i>Palliative Care for Hematologic Malignancies and Serious Blood Disorders: A Clinical Guide</i> (Springer Publishing)

REPORT OF LOCAL TEACHING AND TRAINING**Teaching of Students in Courses**

Year(s)	Course Title Type of student/audience	Location Level of effort
2020	Pediatric Clerkship Third year medical students	Case Western Reserve University School of Medicine Designed virtual curriculum and then taught the material over 4 weeks

Formal Teaching of Residents, Clinical Fellows, and Research Fellows

Year(s)	Title Type of trainee/audience	Location Level of effort
2021	Chief of Service: 14 year old with growth restriction and pituitary mass Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children Case presentation
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Newton-Wellesley Hospital One hour lecture

Year(s)	Title Type of trainee/audience	Location Level of effort
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Newton-Wellesley Hospital One hour lecture
2022	Sex Education in Massachusetts PGY-2 residents	Massachusetts General Hospital <i>for</i> Children 30 minute lecture
2022	Sex Education in Massachusetts Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture

Local Invited Presentations

No presentations below were sponsored by 3rd parties/outside entities

Year(s)	Title of presentation / Type of presentation Department and Institution where presented (sponsor, if any)
2017	The Impact of Smoking History EHR Fluctuations on Lung Cancer Screening Practices / Selected oral abstract Case Western Reserve University School of Medicine Lepow Research Day

Report of Regional, National, and International Invited Teaching and Presentations

No presentations below were sponsored by 3rd parties/outside entities

National

Year(s)	Title of presentation or name of course / Type of presentation/role(s) Location (sponsor, if any)
2018	Patient Navigation: Pre-clinical Medical Students Experiencing Longitudinal Patient Relationships / invited workshop Accelerating Change in Medical Education Consortium Student-Led Conference on Health Systems Science Hershey, PA

International

Year(s)	Title of presentation or name of course / Type of presentation/role(s) Location (sponsor, if any)
2019	Providers at an Academic Safety-Net Hospital System Tend to Refer Patients for Lung Cancer Screening Based on Patient Risk, but Demographic Disparities Persist / selected oral abstract American Thoracic Society International Conference Dallas, TX

REPORT OF CLINICAL ACTIVITIES AND INNOVATIONS

Current Licensure and Certification

Year(s)	Type of License or Certification
2020	American Academy of Addiction Psychiatry MAT Waiver Course (8 hours)
2021	ALTA Language Services, Inc. Qualified Bilingual Staff (Russian)
2021	Middlesex Children's Advocacy Center's Mandated Reporter Training
2022	Massachusetts Chapter 260 Training

Clinical Innovations

Name/location (dates if applicable)	Description
Interpreter phone application, Massachusetts General Hospital (2020–present)	I started an improvement project to make interpreters more accessible in the hospital. When we rolled out a phone application, I was the lead clinician involved with the trial.
www.AmoxClav.com (2021–present)	Together with a pharmacist, I created an online clinical decision support tool to recommend appropriate formulations/ratios of amoxicillin-clavulanate to prescribe based on age, weight, and indication. I created and programmed the website; the pharmacist verified the methodology and quality.
dkats.github.io/IVIG (2022–present)	Together with a pharmacist, I created an online clinical decision support tool to verify the administration rates for uptitration of IV immunoglobulin infusions.

REPORT OF TEACHING AND EDUCATION INNOVATIONS

Teaching/education innovation (date if applicable)	Description
Virtual pediatric clerkship (2020)	Led the development of a “Mock Wards Day” to simulate rounding and clinical decision making for pediatric clerkship students who were learning remotely in the setting of the COVID-19 pandemic.

REPORT OF EDUCATION OF PATIENTS AND SERVICE TO THE COMMUNITY

No presentations below were sponsored by 3rd parties/outside entities

Activities

Year(s)	Organization or institution / Role (Sponsor, if any) Description
2016–2017	Cleveland Metropolitan School District Taught three-day sex education classes, helped incorporate consent into the curriculum
2017	Case Western Reserve University School of Medicine Taught Cleveland middle and high school students general principles of biology related to the healthcare field
2017–2018	Cuyahoga County Juvenile Detention Center Taught three-day sex education classes
2021	Boston International Newcomers Academy Gave 1 hour lectures ×3 on medical topics to high school students

Educational Material for Patients and the Lay Community:Patient Educational Material

Year	Title	Type of contribution (sponsor, if any)	Citation, if any
2019	www.DanceKats.com (patient exercise education)	Creator	
2020–present	www.KatsMD.com (general patient education)	Creator	

Year	Title	Type of contribution (sponsor, if any)	Citation, if any
2021	Autoimmune Neutropenia	Author	
2021	Bleeding Disorders	Author	
2021	Immune Thrombocytopenic Purpura	Author	
2021	Inherited Thrombophilia	Author	
2021	Iron Deficiency	Author	
2021	Thalassemia Trait	Author	
2021	von Willebrand Disease	Author	

REPORT OF SCHOLARSHIP

ORCID: 0000-0001-7591-6222 ■ [Google Scholar](#)

Peer-reviewed Scholarship in Print or Other MediaResearch Investigations

1. Tarabichi, Y., **Kats, D.J.**, Kaelber, D.C., Thornton, J.D. The Impact of Fluctuations in Pack-Year Smoking History in the Electronic Health Record on Lung Cancer Screening Practices. *CHEST*. 2018, 153(2): 575–578.
2. Adie, Y., **Kats, D.J.**, Tlimat, A., Perzynski, A., Dalton, J., Gunzler, D., Tarabichi, Y. Neighborhood Disadvantage and Lung Cancer Incidence in Ever-Smokers at a Safety-Net Healthcare System: A Retrospective Study. *CHEST*. 2020, 157(4): 1021–1029.
3. **Kats, D.J.**, Patsiogiannis, V., Skotko, B.G. Epileptic Spasms in Patients with Down Syndrome: Experiences from Caregivers. *J Child Neurol*. 2020, 35(12): 813–819.
4. **Kats, D.J.**, Adie, Y., Tlimat, A., Greco, P.J., Kaelber, D.C., Tarabichi, Y.. Assessing Different Approaches to Leveraging Historical Smoking Exposure Data to Better Select Lung Cancer Screening Candidates: A Retrospective Validation Study. *Nicotine Tob Res*. 2020.

Other Peer-reviewed Scholarship

1. **Kats, D.J.**, Roche, K.J., Skotko, B.G. Epileptic Spasms in Individuals with Down Syndrome: A Review of the Current Literature. *Epilepsia Open*. 2020, 5: 344–353.

Professional Educational Materials or Reports, in Print or Other Media

1. **Kats, D.J.**, Lie, S. Sexually Transmitted Infections. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
2. **Kats, D.J.** EKG Basics. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
3. **Kats, D.J.** Arrhythmias: Bradycardia. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
4. **Kats, D.J.** Arrhythmias: Wolff-Parkinson White. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
5. **Kats, D.J.** Cardiac Infection and Inflammation: Kawasaki Disease. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
6. **Kats, D.J.**, Olshan, K. Constipation. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.
7. Diacovo, N., **Kats, D.J.** Nausea. Massachusetts General Hospital *for Children* Resource Book Pediatric Housestaff Manual. 2021.

8. **Kats, D.J.** COVID-19. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
9. **Kats, D.J.** Multisystem Inflammatory Syndrome in Children. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
10. **Kats, D.J.** Multi-Drug Resistant Organisms. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
11. **Kats, D.J.** Table of Common Infections. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
12. **Kats, D.J.** Altered Mental Status. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
13. **Kats, D.J.** Examination of the Newborn. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
14. **Kats, D.J.** Hyperbilirubinemia of the Newborn. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
15. **Kats, D.J.** Pain Management: Opioids. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.
16. **Kats, D.J.** Other Symptom Management: Nausea, Constipation, Dyspnea. Massachusetts General Hospital *for* Children Resource Book Pediatric Housestaff Manual. 2021.

Theses

1. **Kats, D.J.** Inosine 5'-monophosphate dehydrogenase: A collection of mysterious binding sites and regulation [BS honors thesis]. Waltham, MA: Brandeis University. 2016.
2. **Kats, D.J.** Lung cancer risk stratification, Down syndrome, and epileptic spasms: A journey through informatics, healthcare disparities, and quality improvement [MD thesis]. Cleveland, OH: Case Western Reserve University School of Medicine. 2020.

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings

Last Three Years

1. [International] Tlimat, A., **Kats, D.J.**, Perzynski, A., Tarabichi, Y. A Temporal Analysis of Variation in Smoking Intensity in the Cleveland Area by Strata of Neighborhood Socioeconomic Deprivation. American Thoracic Society International Conference; Dallas, TX. 2019.
2. [International] Adie, Y., Tlimat, A., **Kats, D.J.**, Perzynski, A., Tarabichi, Y. Neighborhood Disadvantage and Lung Cancer Incidence in an Electronic Health Record Cohort. American Thoracic Society International Conference; Dallas, TX. 2019.
3. [International] **Kats, D.J.**, Tlimat, A., Adie, Y., Tarabichi, Y. Can Historical Electronic Health Record Smoking Data Be Leveraged to Improve the Selection of Patients for Lung Cancer Screening? American Thoracic Society International Conference; Dallas, TX. 2019.
4. [International] Tlimat, A., O. Adeoye, **Kats, D.J.**, Tarabichi, Y. Could Patients at a Safety-Net Healthcare Systems Be Too Sick to Be Screened for Lung Cancer? American Thoracic Society International Conference; Philadelphia, PA. 2020.
5. [National] **Kats, D.J.**, Martin, S.D., Smith, M.H. Don't "MIS-C" The Cancer: a Case Report of Incidentally Diagnosed Wilms Tumor During Acute MIS-C. The American Society of Pediatric Hematology/Oncology Conference; Pittsburgh, PA. 2022. (Poster #559)