

## Mustafa Steven Ascha

Center for Clinical Investigation  
Case Western Reserve University  
2103 Cornell Road, Room 6133  
Cleveland, OH 44106-7291

<http://github.com/mustafaascha> – <http://mustafa.fyi> – [mustafa.ascha@gmail.com](mailto:mustafa.ascha@gmail.com)

### EDUCATION

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|-------------|--|
| 2016-2019   | Case Western Reserve University<br>Center for Clinical Investigation<br>Department of Epidemiology and Biostatistics <ul style="list-style-type: none"><li>• PhD, Clinical and Translational Science</li></ul>                       |
| 2014-2016   | Case Western Reserve University<br>Center for Clinical Investigation<br>Department of Epidemiology and Biostatistics <ul style="list-style-type: none"><li>• Graduate Certificate in Clinical Research</li><li>• GPA: 4.00</li></ul> |
| 2014-2016   | Case Western Reserve University<br>Department of Physiology and Biophysics <ul style="list-style-type: none"><li>• Master's of the Sciences, Medical Physiology</li><li>• GPA: 3.95</li></ul>  |
| 2007 – 2011 | Case Western Reserve University <ul style="list-style-type: none"><li>• Bachelor's of the Arts, Economics</li><li>• Minor, Philosophy</li><li>• GPA: 3.04</li></ul>  |

### WORK AND RESEARCH

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| 2016 - present | University Hospitals Case Medical Center, Cleveland, Ohio<br>Ear, Nose, and Throat Institute<br>Department of Otolaryngology – Head & Neck Surgery<br>Supervisor: Todd D. Otteson, MD, MPH<br>Donor Funded -- Enlarged Vestibular Aqueduct Research Program <ul style="list-style-type: none"><li>• Study director, Enlarged Vestibular Aqueduct Registry (EVAR)</li><li>• Wrote and submitted an IRB application for EVAR</li><li>• Ensured timely launch of EVAR by coordinating IRB interaction, website development, EVAR marketing, and supervisor input</li><li>• Submitted and earned approval for EVAR to be listed on ClinicalTrials.gov<ul style="list-style-type: none"><li>○ <a href="https://clinicaltrials.gov/ct2/show/study/NCT02798783">https://clinicaltrials.gov/ct2/show/study/NCT02798783</a></li></ul></li></ul> |
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- Authored and submitted manuscripts and abstracts for publication and presentation
- Wrote update letters to donors
- Conceived, implemented, and wrote manuscript for a retrospective study of hearing loss in EVA patients
  - Designed study to reflect longitudinal nature of hearing loss progression
  - Used repeated measures of hearing to construct linear mixed-effects models
  - Examined the impact of inner ear morphology on hearing loss

2014 - present      Cleveland Clinic Foundation, Digestive Disease Institute, Cleveland, Ohio  
 PI: Ibrahim Hanouneh, MD

- Authored and submitted manuscripts and abstracts for publication and presentation

2010-2011      Louis Stokes Veterans Affairs Medical Center, Cleveland, Ohio  
                      Spinal Cord Injury and Disorders Department  
 Supervisor: Christine Woo, MS

- Developed telehealth program materials
- Participated in manuscript revision

2008 - 2010      Cleveland Clinic Foundation, Digestive Disease Institute, Cleveland, Ohio  
 PI: Nizar Zein, MD

- Designed experiments based on questions discovered during literature search
- Retrieved and pre-processed data
- Authored and submitted manuscripts and abstracts for publication and presentation

## BIBLIOGRAPHY

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### Peer Reviewed Articles

1. **Ascha MS**, Hanouneh IA, Lopez R, Tamimi TA, Feldstein AF, Zein NN. The incidence and risk factors of hepatocellular carcinoma in patients with nonalcoholic steatohepatitis. *Hepatology*. 2010;51(6):1972-8. doi: 10.1002/hep.23527.PMID: 20209604.
2. **Ascha MS**, Ascha ML, Zein NN, et al. Treatment of Recurrent Hepatitis C Genotype 4 Post-Liver Transplantation with Sofosbuvir plus Simeprevir. *Int J Organ Transplant Med*. 2015;6(2):86-90. PMID: 26082832. PMCID: PMC4464282
3. **Ascha MS**, Ascha ML, Hanouneh IA. Management of immunosuppressant agents following liver transplantation: Less is more. *World J Hepatol* 2016;8(3): 148-161. doi:10.4254/wjh.v8.i3.148. PMID: 26839639. PMCID: PMC4724578.
4. Ascha M, Wang Z, **Ascha MS**, Dweik R, Zein NN, Grove D, Brown JM, Marshall S, Lopez R, Hanouneh IA. Metabolomics studies identify novel diagnostic and prognostic indicators in

- patients with alcoholic hepatitis. *World J Hepatol.* 2016;8(10):499-508. doi: 10.4254/wjh.v8.i10.499. PMID: 27057307. PMCID: PMC4820641.
5. Ascha M, Hanounieh M, **Ascha MS**, Zein NN, Sands M, Lopez R, Hanounieh IA. Transjugular Intrahepatic Porto-Systemic Shunt in Patients with Liver Cirrhosis and Model for End-Stage Liver Disease  $\geq 15$ . *Dig Dis Sci.* 2016 May 6. PMID: 27154510.
  6. Nayfe R, **Ascha MS**, Ismail M, Salvino R. Gastrocolic Fistula as a Presentation of Concomitant Gastric and Colon Cancer in a Patient with a History of Metastatic Pancreatic Adenocarcinoma. *J Gastrointest Cancer.* 2016; Epub ahead of print. PMID: 27251299.
  7. **Ascha MS**, Ascha ML, Hanounieh IA. Black Ascites: An interesting presentation of pancreatic duct leak. 2016; 3(4):18-21. doi: 10.5430/crim.v3n4p18.
  8. **Ascha MS**, Manzoor N, Gupta A, Semaan M, Megerian C, Otteson TD. Vestibular Aqueduct Midpoint Width and Hearing Loss in Patients With an Enlarged Vestibular Aqueduct. *JAMA Otolaryngol Head Neck Surg.* 2017;143(6):601-608. doi: 10.1001/jamaoto.2016.4522 PMID: 28334328
  9. Ascha M, **Ascha MS**, Gastman B. Identification of Risk Factors in Lymphatic Surgeries for Melanoma: A National Surgical Quality Improvement Program Review. *Ann Plast Surg.* 2017; Epub ahead of print. DOI: 10.1097/SAP.0000000000001152 PMID: 28650410
  10. Ahadizadeh, E, **Ascha MS**, Manzoor N, Gupta A, Semaan M, Megerian C, Otteson TD. "Hearing loss in enlarged vestibular aqueduct and incomplete partition type II." *American Journal of Otolaryngology* (2017). <http://dx.doi.org/10.1016/j.amjoto.2017.06.010> PMID: 28793961
  11. Nayfe, R, **Ascha, MS** and Rehmus, EH, 2017. Esophageal Squamous Cell Carcinoma Presenting with Streptococcus intermedius Cerebral Abscess. *Case Reports in Pathology, 15 August 2017.* PMCID: PMC5574295
  12. Ascha M, **Ascha MS**, Tanenbaum J, Bordeaux JS. Risk Factors for Melanoma in Renal Transplant Recipients. *JAMA Dermatol.* 2017;153(11):1130–1136. doi:10.1001/jamadermatol.2017.2291

### Oral Presentations

1. **Ascha MS**, Hanounieh IA, Lopez R, Abu-Rajab Tamimi TI, Albeldawi M, Feldstein AE, McCullough AJ, Zein NN. "Cumulative Incidence and Risk Factors of Hepatocellular Carcinoma (HCC) in Patients with END-Stage Liver Disease Secondary to Nonalcoholic Steatohepatitis (NASH)." *Gastroenterology*, Volume 136, Issue 5, Supplement 1, May 2009, Page A-797, ISSN 0016-5085, [http://dx.doi.org/10.1016/S0016-5085\(09\)63676-3](http://dx.doi.org/10.1016/S0016-5085(09)63676-3). Presented by Ascha MS.
2. Ascha ML, **Ascha MS**, Dweik R, Zein NN, Brown M, Marshall S, Hazen S, Wang Z, Grove D, Hanounieh IA. "Metabolomics: Identifying novel prognostic indicators in patients with end-stage liver disease." Case Western Reserve University QGrad LGBT Symposium, Cleveland, Ohio (April 23, 2015). Presented by Ascha MS.

3. Ascha ML, **Ascha MS**, Hanouneh IA. "Treatment of recurrent hepatitis C genotype 4 post-liver transplantation with sofosbuvir plus simeprevir: a case series." Case Western Reserve University QGrad LGBT Symposium, Cleveland, Ohio (April 23, 2015). Presented by Ascha MS.
4. Ascha M, **Ascha MS**, Dweik R, Zein N, Brown M, Marshall S, Hazen S, Wang Z, Grove D, Hanouneh I. "Metabolomics Studies Identify Novel Prognostic Indicators in Patients with End-Stage Liver Disease." Translational and Basic Science Research Plenary Session, Digestive Disease Week, Washington, DC (May 17, 2015). Presented by Ascha M.
5. Ascha M, Hanouneh M, **Ascha MS**, Zein NN, Sands M, Lopez R, Hanouneh IA. "Transjugular Intrahepatic Portosystemic Shunt in Patients with Liver Cirrhosis and Model for End-Stage Liver Disease  $\geq 15$ ." Lepow Day 2016, Case Western Reserve University School of Medicine, Cleveland, OH (August 18, 2016). Presented by Ascha M.
6. Ascha M, **Ascha MS**, Gastman B. "Identification of Risk Factors in Lymphatic Surgeries for Melanoma: A NSQIP Review." Ohio Valley Society of Plastic Surgeons 60th Annual Meeting, Pittsburgh, PA (June 2, 2017). Presented by Ascha M.
7. Arora KS, Wilkinson B, Verbus E, Montague M, Morris J, **Ascha M**, Mercer B. "Two-Tiered Reproduction - Normative and Quantitative Analysis of Barriers to Equitable Postpartum Sterilization." American Society for Bioethics and the Humanities Annual Meeting. October 2017.

#### Abstracts

1. Manzoor NF, Clancy K, Rezaee RP, **Ascha MS**, Zender CA, Lavertu P, Megerian CA, Semaan MT; Multidisciplinary management of head and neck malignancies involving the lateral skull base. ANS 52<sup>nd</sup> Annual Spring Meeting, April 2017.
2. Manzoor NF, Hoppe K, **Ascha MS**, Mowry SE, Megerian CA, Otteson TD, Semaan MT; Delineating hearing loss at radiographic diagnosis in enlarged vestibular aqueduct syndrome. AOS 150th Annual Meeting, April 2017.
3. Kurlander DE, Ascha M, Marshall D, Wang D, **Ascha M**, Tripi PA, Reeves, HM, Downes, KA, Ahuja S, Rotta AT, Tomei, K, 2017. Striving for Transfusion-Free Open Cranial Vault Remodeling: A Novel Protocol. *Plastic and Reconstructive Surgery Global Open*, 5(9 Suppl). PMID: PMC5636509

#### Poster Presentations

1. **Ascha MS**, Hanouneh IA, Lopez R, Feldstein AE, Zein NN. "Risk score for predicting the lack of response to antiviral treatment in patients with chronic HCV infection." American College of Gastroenterology, Orlando, Florida (October 3 – 8, 2008). Presented by Ascha MS
2. **Ascha ML**, Ascha MS, Hanouneh IA. "Treatment of recurrent hepatitis C genotype 4 post-liver transplantation with sofosbuvir plus simeprevir: a case series." Case Western Reserve University Department of Physiology and Biophysics Retreat, Cleveland, Ohio (September 25, 2015). Presented by Ascha MS.

3. Ascha M, Hanouneh M, **Ascha MS**, Zein NN, Sands M, Lopez R, Hanouneh IA. "Transjugular Intrahepatic Porto-Systemic Shunt in Patients with Liver Cirrhosis and Model for End-Stage Liver Disease  $\geq 15$ ." Department of Medicine Research Day, Case Western Reserve University, Cleveland, OH (May 6, 2016). Presented by Ascha M.
4. **Ascha MS**, Ascha ML, Hanouneh IA. "Black ascites: an interesting presentation of pancreatic duct leak". American College of Gastroenterology, October 17, 2016. Las Vegas, Nevada. Presented by Ascha MS.
5. Ascha ML, Hanouneh M, **Ascha MS**, Zein NN, McCullough A, Hanouneh IA. "The utility of tacrolimus in the management of adults with difficult-to-treat autoimmune hepatitis: review of literature". American College of Gastroenterology, October 18, 2016, Las Vegas, Nevada. Presented by Ascha MS.
6. Arora KS, Wilkinson B, Verbus E, Montague M, Morris J, **Ascha M**, Mercer B. "Disparities in Postpartum Sterilization Fulfillment for Women Covered by Medicaid Versus Private Insurance." North American Forum on Family Planning. October 2017. Presented by Arora KS.
7. Arora KS, Wilkinson B, Verbus E, Montague M, Morris J, **Ascha M**, Mercer B. "Disparities in Postpartum Sterilization Fulfillment for Women Covered by Medicaid Versus Private Insurance." MetroHealth Research Day. November 2017. Presented by Arora KS.

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## TEACHING EXPERIENCE

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| Summer 2016            | <p>Teaching Assistant, <b>Introduction to R Programming</b><br/> Case Western Reserve University, Clinical Research Scholars Program<br/> Course Director: Steven Lewis, MS, MBA</p> <ul style="list-style-type: none"> <li>• Met with students to review core R Programming concepts</li> <li>• Graded and designed homework assignments</li> <li>• Lectured regarding the use of R Markdown <ul style="list-style-type: none"> <li>◦ <a href="https://github.com/mustafaascha/rmarkdownTutorial">https://github.com/mustafaascha/rmarkdownTutorial</a></li> </ul> </li> </ul>   |
| Fall 2016, Spring 2017 | <p>Teaching Assistant, <b>Statistics I and Statistics II</b><br/> Case Western Reserve University, Department of Epidemiology and Biostatistics<br/> Course Director: Thomas Love, PhD</p> <ul style="list-style-type: none"> <li>• Updated course notes and assignment solutions to reflect modern R practices <ul style="list-style-type: none"> <li>◦ Re-wrote figures to use the R package ggplot2</li> <li>◦ Re-wrote code to use the R package dplyr</li> </ul> </li> <li>• Converted R Markdown notes for use with the R package bookdown <ul style="list-style-type: none"> <li>◦ Organized notes for use both in website or PDF format</li> </ul> </li> <li>• Wrote exploratory data analysis convenience functions</li> </ul> |
| Summer 2017            | <p>Teaching Assistant, <b>Epidemiology Clinical Research Block</b><br/> Cleveland Clinic Lerner College of Medicine at Case Western Reserve University<br/> Course Director: Paola Raska, PhD</p> <ul style="list-style-type: none"> <li>• Aided in clinical research training for medical students</li> </ul>  |

- Responsibilities included explaining measures of disease frequency, identifying confounding, direct and indirect adjustment, and clinical study design
- Provided guidance for students pursuing their own projects; this involved helping develop testable hypotheses, perform power analysis, and implement analysis using R and JMP

## COMMUNITY SERVICE

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| Jan. – Jun. 2013 | <p>Volunteer, Perioperative Care Center<br/>Hillcrest Hospital, Cleveland Clinic Health System, Mayfield Heights, Ohio</p> <ul style="list-style-type: none"> <li>• Prepared rooms for post-surgery patients</li> <li>• Transported patients to hospital exit for pick-up</li> </ul>                       |
| 2015             | <p>Volunteer, Preventing Incident Delirium in the Elderly (PRIDE) Program<br/>University Hospitals Case Medical Center, Cleveland, Ohio</p> <ul style="list-style-type: none"> <li>• Re-oriented elderly patients to place and time</li> <li>• Spent time in conversation with elderly patients</li> </ul> |

**Languages:** Conversant in French and Syrian Arabic

**Interests:** Playing guitar, working with electronics, computer science