
Mutaz M. Jaber

jaber038@umn.edu

1245 Ray Place
St Paul MN 55108, USA
Phone: +1 651-706-5202

Personal website:M.M. Jaber
Google scholar:Mutaz M. Jaber
GitHub:Mutaz94

Research interest

Pharmacometrics, Nonlinear mixed-effect, Absorption models, computational statistics, estimation algorithms, Machine learning

Education

Experimental and Clinical Pharmacology, PhD - University of Minnesota 2020-current
Emphasis: **Pharmacometrics**
Minor: **Statistics**
Advisor: Richard C. Brundage, PharmD, PhD
Co-advisor: Mahmoud Al-kofahi, DDS, PhD
Overall GPA: 3.95

Doctor of Pharmacy, PharmD - Jordan University of Science and Technology 2012-2018
Department of Clinical Pharmacy
College of Pharmacy

Research experience

Graduate research assistant - University of Minnesota 2020 - current
Advisor: Richard C. Brundage, PharmD, PhD
Project(s):

- Methodology research - Uncertainty in NLME approach, Machine learning
- Clinical research - Hydrocortisone Pump for congenital adrenal hyperplasia patients

Pharmacometrics GDD intern - Novartis June 2021 - Aug 2021
Mentor: Matt Fidler, PhD
Project: Simulation uncertainty in NLME approach

Postdoctoral Associate - University of Minnesota 2019-2020
Supervisor: Richard C. Brundage, PharmD, PhD
Project(s):

- Hydrocortisone pharmacokinetics/pharmacodynamics
- Mathematical modeling of circadian rhythms
- Tools development: HydroC-Precision
- Absorption models

Postgraduate researcher - Jordan University of Science and Technology 2018 - 2019
Supervisor(s): Mera Ababneh, PharmD, PhD; Sayer AlAzzam, MSc, PharmD
Project(s):

- Antimicrobial stewardship

- Pharmacostatistics models in pharmacoepidemiological research
- Seasonal Influenza vaccination in Jordan

Student research assistant - Jordan University of Science and Technology
Project(s):

2017 - 2018

- Autism, and ADHD pediatric research
- Protein chemical analysis

Clinical experience

Pharmacy intern - Drug information center (KAUH)

May, 2018-July, 2018

Clinical pharmacy rotation - KAUH

Sep, 2017 - May, 2018

Pharmacy intern - KHCC

Jan 2017 - Mar 2017

Teaching experience

- Minnesota pharmacometrics summer school: Population approach and NONMEM

Awards

- ACCP/ISoP Student abstract award ACCP annual meeting 2020

Publications

- [1] Mera Ababneh, Mutaz Jaber, Abeer Rababa'h, and Faris Ababneh. Seasonal influenza vaccination among older adults in Jordan: prevalence, knowledge, and attitudes. *Human Vaccines & Immunotherapeutics*, 16(9):2252–2256, September 2020.
- [2] Mera A Ababneh, Mutaz Jaber, Abeer Rababa'h, and Eshraq Alabweny. Prevalence of antimicrobial use in a tertiary academic hospital: a venue for antimicrobial stewardship programs. *Expert Review of Anti-infective Therapy*, pages 1–5, December 2020.
- [3] Heba Al-Rayess, O Yaw Addo, Mutaz Jaber Elise Palzer, Kristin Fleissner, James Hodges, Richard Brundage, Bradley Scott Miller, and Kyriakie Sarafoglou. Hydrocortisone suspension provides similar growth outcomes as hydrocortisone tablets in young children with congenital adrenal hyperplasia: A cross sectional study. *Journal of the Endocrine Society*, 5, 2021.
- [4] Heba Al-Rayess, Kristin Fleissner, Mutaz Jaber, Richard C Brundage, and Kyriakie Sarafoglou. Manipulation of Hydrocortisone Tablets Leads to Iatrogenic Cushing Syndrome in a 6-Year-Old Girl With CAH. *Journal of the Endocrine Society*, 4(8):bvaa091, August 2020.
- [5] Mahmoud Al-Kofahi, Mariam A. Ahmed, Mutaz M. Jaber, Thang N. Tran, Brian A. Willis, Cheryl L. Zimmerman, Maria T. Gonzalez-Bolanos, Richard C. Brundage, and Kyriakie Sarafoglou. An integrated PK-PD model for cortisol and the 17-hydroxyprogesterone and androstenedione biomarkers in children with congenital adrenal hyperplasia. *Br J Clin Pharmacol*, 87(3):1098–1110, March 2021.
- [6] Mahmoud Al-Kofahi, Pamala Jacobson, David R. Boulware, Arthur Matas, Raja Kandaswamy, Mutaz M. Jaber, Radha Rajasingham, Jo-Anne H. Young, and Melanie R. Nicol. Finding the Dose for Hydroxychloroquine Prophylaxis for COVID-19: The Desperate Search for Effectiveness. *Clin. Pharmacol. Ther.*, 108(4):766–769, October 2020.
- [7] Mutaz M. Jaber, Mahmoud Al-Kofahi, Kyriakie Sarafoglou, and Richard C. Brundage. Individualized Absorption Models in Population Pharmacokinetic Analyses. *CPT Pharmacometrics Syst. Pharmacol.*, 9(6):307–309, June 2020.

- [8] Mutaz M. Jaber, Shen Cheng, and Richard C Brundage. Evaluation of bias in weighted residual calculations when handling below the limit of quantification data using Beal's M3 method. page 4.
- [9] Mutaz M Jaber, Burhaneddin Yaman, Kyriakie Sarafoglou, and Richard C Brundage. Application of Deep Neural Networks as a Prescreening Tool to Assign Individualized Absorption Models in Pharmacokinetic Analysis. page 11, 2021.
- [10] Kyriakie Sarafoglou, Mutaz M Jaber, Mahmoud Al-Kofahi, and Richard C Brundage. Hydrocortisone suspension formulations are not necessarily the same in the treatment of children with congenital adrenal hyperplasia. *European Journal of Endocrinology*, 183(6):L27–L28, December 2020.
- [11] Takuto Takahashi, Maryam A. Mohamud, Angela R. Smith, Pamala A. Jacobson, Mutaz M. Jaber, Abeer F. Alharbi, James Fisher, and Mark N. Kirstein. CYP2C19 Phenotype and Body Weight-Guided Voriconazole Initial Dose in Infants and Children after Hematopoietic Cell Transplantation. *Antimicrob Agents Chemother*, 65(9), August 2021.

Presentations

Posters & abstracts

Professional service