

Sana'a A. Jaber

Amman- Jordan

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EDUCATION

MSc in clinical pharmacy | Jordan University of Science and Technology (JUST) | Aug 2020
Thesis title: **The Effect of Acute and Chronic Renal Failure on Doxepin Pharmacokinetics and Pharmacodynamics.**

BA in pharmacy | Jordan University of Science and Technology | June 2015.

PROFESSIONAL EMPLOYMENTS

- **Faculty member at Jerash Private University**

Pharmacokinetics and Biopharmaceutics

Clinical Pharmacy and Therapeutics (CVS and CNS),

Clinical Nutrition,

Clinical Biochemistry and,

Public Health

- **Research Assistant at JUST**

RCR program coordinator, PBPK Modeling, Pharmacokinetics studies (in-vitro and in-vivo),

Phytochemistry analysis, Pharmacodynamic studies (in-vivo), HPLC method development and validation

- **Medical writer at Aljazeera.net**

- **Staff pharmacist at Al-Raqeem pharmacy**

PUBLICATIONS

Aref L. Zayed, Ghuroob N. Hamadneh, Jomana Al Hroot, Abdulraouf Mayyas, **Sana'a A. Jaber**, Nidal A. Qinna, HPLC Methods for Studying Pharmacokinetics of Tivozanib and in Vitro Metabolic Interaction with Dexamethasone in Rat, Journal of Pharmaceutical and Biomedical Analysis, 2023, 115423, ISSN 0731-7085, <https://doi.org/10.1016/j.jpba.2023.115423>.

Zayed A, **Jaber SA**, Al Hroot J, Hawamdeh S, Ayoub NM, Qinna NA. HPLC with Fluorescence and Photodiode Array Detection for Quantifying Capmatinib in Biological Samples: Application to In Vivo and In Vitro Studies. Molecules. 2022; 27(23):8582. <https://doi.org/10.3390/molecules27238582>

Alsmadi MM, Al-Daoud NM, Jaradat MM, Alzughoul SB, Abu Kwiak AD, Abu Laila SS, Abu Shameh AJ, Alhazabreh MK, **Jaber SA**, Abu Kassab HT. Physiologically-based pharmacokinetic model for alectinib, ruxolitinib, and panobinostat in the presence of cancer, renal impairment, and hepatic impairment. Biopharm Drug Dispos. 2021 Jun;42(6):263-284. DOI: 10.1002/bdd.2282.

Technical research experience

- **Pharmacokinetics:** In-vivo studies, in-vitro studies using rats' liver microsomes, analysis and interpretation of experimental results using PK-Solver, PBPK modelling using PK-Sim.
- **Chromatography:** HPLC method development and validation using HPLC-UV/FID, extraction method optimization, HPLC troubleshooting and Flash chromatography.
- **Behavioral analysis and Animal handling:** Radial arm water maze, open field test, elevated plus maze, tail suspension test, induction of kidney failure, heat stress and circadian rhythm disturbances.

RESEARCH EXPERIENCES:

- Studying the protective effect of neuroprotective drugs and nutritional interventions against memory impairment induced by several models (ongoing projects).
- Development and validation of HPLC methods-UV/FLD for recently approved anticancer agents using a different matrix with pharmacokinetics applications (in-vitro and in-vivo).
- The effect of kidney failure on doxepin pharmacokinetics and pharmacodynamics (in-vivo and in-silico).
- Therapeutic drug monitoring in Jordan.
- Educational pharmaceutical pictogram for improving inhaler techniques in patients with asthma.

PROGRAMS AND SKILLS

PK-Sim, PK solver, Microsoft Office, Prism, Scientific writing, Animal handling, Behavioral analysis, Phytochemical analysis (by Flash chromatography, HPLC, and UV spectrophotometry), HPLC method development and troubleshooting, and survey development.

LANGUAGES

Arabic (mother language), English (IELTS score 7.0)

References

Available upon request