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### Knowledge, Attitude and risk perception in Oral Isotretinoin use: A cross sectional study from Jordan

The most prevalent skin condition is acne vulgaris. Recent clinical practice guidelines recommend oral isotretinoin to treat moderate-to-severe acne. The aim of this study is to assess the knowledge, attitude, and risk perception of oral isotretinoin for acne treatment. This is a cross-sectional descriptive study conducted in the country of Jordan. The study sample includes people resident in Jordan aged  $\geq 14$  years who have been treated with oral isotretinoin for acne. The study involved 373 participants who previously used oral isotretinoin for skin disorders. Most were Jordanian (89.3%), aged 19-25 (37.3%), and from the central region (82.8%). Mostly, they used isotretinoin for severe or mild acne (25.2% and 24.1%, respectively), Rosacea (4.1%), or to alleviate acne scars. Surprisingly, 58.1% did not consult their specialist for side effects, and 20% shared their treatment. The average proper use score was 9.98 out of 16. A link was found between higher risk knowledge scores and proper use scores. Side effects like nausea, irregular heartbeat, and pancreatitis affected some users (11.5%, 10.5%, 7.0%, and 3.2% respectively). Knowledge about isotretinoin's risks varied, with percentages recognizing teratogenicity (57.7%), liver damage (52.6%), lipid profile effects (37.2%), while 25% believed it had no side effects. The study revealed partial adherence to oral isotretinoin guidelines, with gaps in monitoring and consultation. A positive correlation emerged between risk knowledge and proper usage, emphasizing the need for comprehensive education and monitoring strategies in isotretinoin therapy for skin disorders.

**Keywords:** Isotretinoin, use, misuse, practice, Jordan, side effects

#### Biography

I graduated with honors from the Faculty of Pharmacy at the University of Jordan and holds a master's degree in Clinical Pharmacy from the same institution. With two years of experience as a Regulatory Affairs Specialist at Hikma Pharmaceuticals, I had gained expertise in drug registration across the MENA region and pharmacovigilance.

In academia, I have served as a teaching assistant at both the University of Jordan and Al-Ahliyya Amman University, where they managed training courses for pharmacy students and contributed to the ACPE accreditation committee. Currently, I am a lecturer at the College of Pharmacy at Amman Arab University and about to finish my PhD degree in the field.

I holds certifications as a Certified International Professional Trainer (CIPT) and in Training of Trainers (TOT), reflecting a commitment to professional development and education.