Pharmacist's attitude, self-reported knowledge and practice of dosage adjustment questionnaire (RDQ-13) Demographics

Demographics
Gender
□Female
□Male
Age (years)
□20–29
□30–39
□40–49
□50–59
☐ More than 60
Work experience (years)
□<5
□5-10 years
□11-15 years
☐ More than 16 years
Education qualifications
☐BSc Pharmacy/BPharm
□PharmD
☐ Higher studies
☐ Other professional certificates/BCPS
Setting of working
☐ Hospital Pharmacy
□Clinical Pharmacy
☐ Community Pharmacy
☐ Retail Pharmacy
Designation of Pharmacist
☐ Trainee Pharmacist
□ Resident Pharmacist
☐Staff Pharmacist
☐ Assistant Manager Pharmacy
☐ Manager/Senior Manager Pharmacy
☐ Chief Pharmacist

UDirector Pharmacist
Drug references available
□ British National Formulary
□Martindale
□British Pharmacopeia/US Pharmacopeia
☐ Lexicomp Drug Information Handbook
□Micromedex
□Other (Medscape, Renal Dosing Handbook, mobile applications,etc.)
Knowledge: Related to renal dose adjustment?
a. Are you knowledgeable about renal dose adjustment? $\Box Yes$
\Box No
b. Have you ever heard about the National Kidney Foundation KDOQI guidelines? $\Box Yes$
\Box No
c. Are the medications excreted from the body through the kidneys? \Box Yes
\Box No
d. Are you monitoring a patient's renal function during medication administration? \Box Yes
\Box No
2. Factors to be considered when determining the appropriate dose for a patient with renal impairment
a. Age of the patient □Yes
\Box No
b. Weight of the patient ☐Yes
\Box No
c. The severity of the patient's renal impairment \Box Yes
\Box No

d. The medication's pharmacokinetics and pharmacodynamics $\hfill\Box Yes$
$\square No$
3. Medications commonly require renal dose adjustment
a. Antibiotics ☐Yes
\Box No
b. Antihypertensives ☐Yes
\Box No
c. Analgesics □Yes
\Box No
d. other medications \Box Yes
\Box No
4. Calculating the appropriate dose for a patient with renal impairment
a. Use a formula based on the patient's creatinine clearance or estimated glomerular filtration rate (eGFR) \Box Yes
\Box No
b. Follow dosing guidelines provided by the medication manufacturer $\hfill\square Yes$
\Box No
c. Consult with a specialist, such nephrologist \Box Yes
\Box No
d. Consult with a specialist, such as a pharmacist \Box Yes
$\square No$
5. Consequences of not adjusting the dose of medications for patients with renal impairment
a. Increased risk of adverse drug reactions ☐Yes

\Box No
b. Decreased medication efficacy \square Yes
\square No
c. Reduced quality of life for the patient $\Box Yes$
\Box No
d. Exaggerate symptoms of disease ☐Yes
\Box No
6. Resources to determine the appropriate dose for a patient with renal impairment
a. Medication dosing guidelines \Box Yes
\Box No
b. Clinical practice guidelines ☐Yes
\Box No
c. Pharmacokinetic information ☐Yes
\Box No
d. Pharmacodynamics information ☐Yes
\Box No
Attitude: 7. How important is dose adjustment of medications for patients a. Not important
b. Somewhat importantc. Moderately important
d. Very important8. How confident are you in calculating the appropriate dose for a patienta. Not at all confidentb. Somewhat confident

- c. Moderately confident
- d. Very confident
- 9. Are you willing to consult the specialist regarding medication dose adjustment
- a. Not willing
- b. Somewhat willing
- c. Moderately willing
- d. Very willing
- 10. How receptive are you to feedback regarding your prescribing practices for patients
- a. Not receptive at all
- b. Somewhat receptive
- c. Moderately receptive
- d. Very receptive

Perception:

- 11. Encounter patients with renal impairment in your practice
- a. Rarely
- b. Occasionally
- c. Frequently
- d. Very frequently
- 12. Frequently adjust medication doses for patients with renal impairment
- a. Rarely
- b. Occasionally
- c. Frequently
- d. Very frequently
- 13. Believe that patients with renal impairment receive adequate medication management
- a. I'm not sure
- b. Yes, medication management is adequate
- c. Somewhat, but there is room for improvement
- d. No, medication management could be improved

Most significant barriers to providing appropriate medication management for patients with renal impairment (click whichever is appropriate, can select more than one option)
1.Patient doesn't have time to discuss
2.Afraid of dealing with prescriber(s)
3.Insufficient time due to pressure from other work
4.Insufficient time due to high patient load
5.Lack of relevant drug information
6.Lack of knowledge and confidence
7.Insufficient patient medical history
8.Lack of information about patient's renal function
Would you like to attend courses/CME sessions on topics regarding renal dose adjustment? \Box Yes
\Box No
If yes in which mode □Online
☐ Face-to-face lecture
□Workshop
□Other if any



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TO WHOM IT MAY CONCERN

This is to certify that Ms. Roheena Zafar D/O Zafar Ali is PhD scholar of Pharmacy Department Abdul Wali Khan University, Mardan. She is conducting her research work on "Development and validation of the Renal Dosing Questionnaire (RDQ-13) Scale for Pharmacists" under the supervision of Dr. Inayat Ur Rehman and co-supervisor Dr. Yasir Shah. The ethical committee is pleased to grant ethical approval to Ms. Roheena Zafar to conduct her research work in any hospital care setting.

Ethical Approval #: EC/AWKUM/2021/27

Convener,

University Ethical Committee & Dean, Faculty of Chemical and Life Sciences Abdul Wali Khan University, Mardan