

CURRICULUM VITAE

Walid Adnan Al-Qerem

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1. Personal Data

Date of Birth: 12/02/1977

Nationality: Jordanian

2. Education

- Ph.D. (Pharmacotherapy) 2013, University of Sunderland , Sunderland , Tyne upon Wear, UK
- B.Sc. (Pharmacy) 2000, AlZaytoonah University of Jordan, Amman, Jordan

3. Ph.D. Dissertation

The Prevalence and Risk Factors of Asthma, Allergic Rhinitis and Eczema in Rural and Urban Egyptian Children, Sunderland University, Tyne upon Wear, Sunderland, UK.

4. Employment

Academic Positions

- Associate Professor, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
June 2, 2020-now
- Assistant Professor, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan
February 11, 2014 –June 1, 2020
- Teaching Assistant, Faculty of Pharmacy, Al-Zaytoonah University of Jordan, Amman, Jordan



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July 15, 2000- January 28, 2002

Other Positions

Medical Representative, Hoffmann la Roche, Jeddah, KSA

Medical Representative, MSD, Sharjah, UAE

Pharmacist, Rafa Pharmacy, Amman, Jordan

5. Research Interests

My research area covers improving the diagnosis and management of different diseases. This includes validation and formulation of spirometric equations to improve the diagnosis and management of many respiratory diseases including Asthma and COPD. The validation of different instruments used to evaluate health-related quality of life and adherence to medication. My research also covers the study of different variables the influence the outcomes of different diseases.

6. Membership in Scientific Societies and Associations

Jordan association of Pharmacy

7. Honors and Awards

5th European Nutrition and Dietetics Conference (2016), Best poster presentation

8. Teaching Experience

- ***Graduate Courses***
Applied Biostatistics
Research methods and biostatistics
- ***Undergraduate Courses***
Pharmacoeconomics
Pharmaceutical Marketing
Therapeutics and clinical pharmacy (1) and (2)
Clinical Pharmacy Practice (1) and (2)
Pharmaceutical Practice (2)
Pharmaceutical biostatistics

9. Training

Supervised the clinical training of pharmacy students of Al-Zaytoonah University of Jordan in several hospitals including Al-Israa Hospital, Jordan Hospital and The Specialty Hospital.



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10. Supervision of Graduate Research

Master Programs

Aspects of improving quality of life in Jordanian patients with Chronic diseases: a cross sectional study (2018).

Validating a tool to measure HRQOL in diabetic Jordanians (2019)

Validating the applicability of GLI-2012 equations on the Iraqi adults (2020)

The effect of diabetes and its management: Insight on cost and quality of life from Jordan (2020)

Clinical features of Covid-19 related to age group: A retrospective analysis of symptoms, treatments and outcomes (2020)

Clinical outcomes and characteristics of patients hospitalized for COVID-19 in Iraq: A retrospective analysis study (2021)

Knowledge, attitudes, and practices of Jordanian patients towards self-medication (2022)

Standardized National Growth Chart of 0-2 years old Jordanian Children (2022)

Standardized National Growth Chart of 2-18 years old Jordanian Children (2023)

PhD Programs

Formulating a standardized spirometry reference equations for the Iraqi population (2022)- Field supervisor with Universiti Sains Malaysia.

Patterns and adherence of opioid use among pain patients in Jordan (2022)- Field supervisor with International Islamic University Malaysia.

11. Professional and Scientific Meetings

Participation in Scientific meetings

- ZTIPC 2022 Conference (2022), Amman, Jordan
- 16th Vaccine Congress-Elsevier (2022), Riva del Garda, Italy
- ZTIPC 2019 Conference (2019), Amman, Jordan
- World Summit on Toxicology (2018), Rome, Italy
- ZTIPC 2017 Conference (2017), Amman, Jordan
- The World Association for Stress-related and Anxiety Disorders, WASAD Conference (2017), Würzburg, Germany
- 5th European Nutrition and Dietetics Conference (2016), Rome, Italy
- ZTIPC 2015 Conference (2015), Amman, Jordan
- European respiratory conference, (2010), Barcelona, Spain

12. Participation in or organization of curricular and/or extra-curricular activities

Smart Pharmacy Program: Organized by Jordan Association of Pharmacy to apply a training program for pharmacists.



13. Participation in n Thesis and Oral Examination Committee

Participated in numerous thesis committees in Jordan University of Science and Technology and Al-Zaytoonah University of Jordan

14. Membership of Journal Editorial Boards

Editor-in-Chief of Integrated Pharmacy Research and Practice, Dovepress (2023)

15. Publications.

1. Alqerem, W., Jarab, A., Qader Al Bawab, A., Hammad, A., Ling, J., Alasmari, F., al Oweidat, K., & Ibrahim, S. (2023). Assessing the validity and reliability of the Arabic versions of Mini Asthma Quality of Life Questionnaire and Asthma Control Test in Adult Patients with Asthma: A Factor Analysis Study. *Saudi Pharmaceutical Journal*, 101878. <https://doi.org/10.1016/J.JSPS.2023.101878>.
2. Jarab, A. S., Al-Azzam, S. I., Al-Mutairi, S., Heshmeh, S. A., Mukattash, T. L., AL-Qerem, W., Beiram, R., & Aburuz, S. (2023). Community pharmacists' knowledge and awareness about isotretinoin therapy and its dispensing practice in Jordan. *Heliyon*, 9(11), e22354. <https://doi.org/10.1016/J.HELIYON.2023.E22354>.
3. Al-Qerem W, Alassi A, Jarab A, Al Bawab AQ, Hammad A, Alasmari F, Alazab B, Abu Husein D, AL Momani N, Eberhardt J. Examining Influenza Vaccination Patterns Among Young Adults with Asthma: Insights into Knowledge, Attitudes, and Practices. *Patient Prefer Adherence*. 2023;17:2899-2913. <https://doi.org/10.2147/PPA.S436622>.
4. **Al-Qerem, W.**, Jarab, A., AlBawab, A. Q., Hammad, A., Alazab, B., Abu Husein, D., Eberhardt, J., & Alasmari, F. (2023). Examining Influenza Vaccination Patterns and Barriers: Insights into Knowledge, Attitudes, and Practices among Diabetic Adults (A Cross-Sectional Survey). *Vaccines*, 11(11), 1689. <https://doi.org/10.3390/vaccines11111689>
5. Jarab, A. S., Al-Qerem, W., Alzoubi, K. H., Abu Heshmeh, S., Mukattash, T. L., Naser, A. Y., & al Hamarneh, Y. N. (2023). Health-related quality of life and its associated factors in patients with chronic obstructive pulmonary disease. *PLOS ONE*, 18(10), e0293342. <https://doi.org/10.1371/journal.pone.0293342>.



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6. Jarab, A. S., **Al-Qerem, W.**, Mubarak D., Heshmeh, S. A., Mukattash, T.L., Naser, Y. Practice, competency and attitude toward weight management service and the barriers for its implementation in the community pharmacy setting. *Pharmacy Practice*. (Accepted but not yet published).
7. Jarab, A. S., **Al-Qerem, W.**, Alqudah, S., Heshmeh, S. A., Mukattash, T., Alefishat, E., Nasar, Y.A., Agha, M. Prevalence of Proteinuria and its associated factors in hypertensive diabetic patients. *European review for Medical and Pharmaceutical Science*. (Accepted but not yet published).
8. **Al-Qerem, W.**, Ling, J., Eberhardt, J. (2023) Validation of an Arabic version of the female version of The Sexual Dysfunctional Beliefs Questionnaire: a factor analysis study. *Journal of Sex and Marital Therapy*.
<https://doi.org/10.1080/0092623X.2023.2260370>.
9. Jarab, A. S., **Al-Qerem, W.**, Hamam, H., Heshmeh, S. A., Al-Azzam, S., Mukattash, T., Alefishat, E. A. Glycemic Control and its associated factors among diabetic heart failure outpatients at Two Major hospitals in Jordan. *PLoS One*. 18(10): e0285142.
<https://doi.org/10.1371/journal.pone.0285142>.
10. Jarab, A. S., **Al-Qerem, W.**, Almomani, N., Heshmeh, S. A., Mukattash, T. L., & Hamarneh, Y. N. al. (2023). Colorectal cancer screening among the public: knowledge, attitudes, and the perceived barriers. *International Journal of Environmental Health Research*, 1–15.
<https://doi.org/10.1080/09603123.2023.2260320>.
11. Alkader, M. S., Al-Majthoub, M. Z., **Al-Qerem, W.**, Alkhader, D. M., Alhusban, A. M., Abdulkareem, M. A., Abweny, B., Hamawi, A. T., Muslem, H. F., Omeish, R. A., Al-Adwan, A. M., & al Halaiqah, H. A. (2023). Prognostic Factors Influencing Survival in Stage II and Stage III Colorectal Cancer Patients. *Cureus*, 15(10), e46575.
<https://doi.org/10.7759/cureus.46575>.
12. Jarab, A. S., **Al-Qerem, W.**, Alzoubi, K. H., Tharf, M., Abu Heshmeh, S., Al-Azayzih, A., Mukattash, T. L., Akour, A., & al Hamarneh, Y. N. (2023). Patterns of drug-related problems and the services provided to optimize drug therapy in the community pharmacy setting. *Saudi Pharmaceutical Journal*, 31(9), 101746.
<https://doi.org/10.1016/J.JSPS.2023.101746>.
13. Jarab, A. S., **Al-Qerem, W.**, Heshmeh, S. R. A., Alzoubi, K. H., Mukattash, T. L., & Akour, A. (2023). Disease control and its associated factors in outpatients



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- with rheumatoid arthritis. *Electronic Journal of General Medicine*, 20(6), em532.
<https://doi.org/10.29333/EJGM/13521>.
14. **Al-Qerem, W.**, Jarab, A., Jarrar, Y., Al-Zayadneh, E., Al-Iede, M., Ling, J., Abu Hammour, K., S. Alabdullah, S., Saad Alabdullah, A., al Refaie, Y., Lubbad, D., Alassi, A., Ibrahim, S., Al-Ibadah, M., & al Bawab, A. Q. (2023). Correlation of vitamin D receptor genotypes, specific IgE levels and other variables with asthma control in children. *Journal of Asthma*.
<https://doi.org/10.1080/02770903.2023.2244580>.
 15. Jarab, A. S., **Al-Qerem, W.**, Alzoubi, K. H., Abu Heshmeh, S., Alzoubi, A. nor A., Mukattash, T. L., Alazab, B., & al Hamarneh, Y. N. (2023). Public perception, satisfaction and expectations from community pharmacy services and the barriers to consult the community pharmacist. *International Journal of Environmental Health Research*.
<https://doi.org/10.1080/09603123.2023.2231364>.
 16. Jarab, A. S., **Al-Qerem, W.**, Alzoubi, K., Obeidat, H., Abu Heshmeh, S., Mukattash, T. L., Naser, Y. A., & Al-Azayzih, A. (2023). Artificial intelligence in pharmacy practice: Attitude and willingness of the community Pharmacists and the barriers for its implementation. *Saudi Pharmaceutical Journal*, 101700.
<https://doi.org/10.1016/J.JSPS.2023.101700>.
 17. Jarab, A. S., Heshmeh, S. R. A., **Al-Qerem, W.**, Mukattash, T. L., Beiram, R., & Aburuz, S. (2023). Non-adherence to pharmacotherapy and its associated factors in outpatients with rheumatoid arthritis. *Pharmacy Practice*, 21(2), 1–8.
<https://doi.org/10.18549/PharmPract.2023.2.2822>.
 18. **Al-Qerem, W.**, Jarab, A., Shawabkeh, Y., Ling, J., Hammad, A., Alazab, B.A. and Alasmari, F., 2023. COVID-19 Vaccination Booster Dose: Knowledge, Practices, and Intention among Pregnant/Planning to Get Pregnant and Lactating Women. *Vaccines*, 11(7), p.1249.
 19. **Al-Qerem, W.**, Safar, M., Safar, I. and Al-Ibadah, M., 2023. Identifying factors associated with increased rate of mortality of COVID-19 patients among Jordanian population: A multicenter case-controlled retrospective study. *Jordan Journal of Pharmaceutical Sciences*, 16(2), pp.483-483.
 20. Hammad, A.M., Alzaghari, L.F., Alfaraj, M., **Al-Qerem, W.**, Talib, W.H., Alasmari, F., Amawi, H. and Hall, F.S., 2023. Acetylsalicylic acid reduces cigarette smoke withdrawal-induced anxiety in rats via modulating the



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expression of NFκB, GLT-1, and xCT. *Frontiers in Pharmacology*, 13, p.1047236.

21. Jarab, A. S., **Al-Qerem, W.**, Alqudah, S., Abu Heshmeh, S. R., Mukattash, T. L., Beiram, R., & Aburuz, S. (2023). Glycemic control and its associated factors in hypertensive patients with type 2 diabetes. *European Review for Medical and Pharmacological Sciences*, 27(12), 5775–5783. https://doi.org/10.26355/eurrev_202306_32816.
22. Abusara, O. H., Bishtawi, S., **Al-Qerem, W.**, Jarrar, W., Al-Khareisha, L., & Khdair, S. I. (2023). Pharmacists' knowledge, familiarity, and attitudes towards biosimilar drugs among practicing Jordanian pharmacists: A cross sectional study. *Journal of King Saud University - Science*, 35(6), 102767. <https://doi.org/10.1016/J.JKSUS.2023.102767>.
23. Jarab, A. S., **Al-Qerem, W.**, Heshmeh, S. A., Mukattash, T. L., Beiram, R., & Aburuz, S. (2023). Factors associated with poor health-related quality of life among patients with asthma: A hospital-based study from Jordan. *Electronic Journal of General Medicine*, 20(5), em517. <https://doi.org/10.29333/EJGM/13384>.
24. **Al-Qerem, W.**, Jarab, A., Hammad, A., Alasmari, F., Ling, J., Al-Zayadneh, E., Al-Iede, M., Alazab, B., & Hajeer, L. (2023). Knowledge, Attitudes, and Practices of Influenza Vaccination among Parents of Children with Asthma: A Cross-Sectional Study. *Vaccines 2023, Vol. 11, Page 1074*, 11(6), 1074. <https://doi.org/10.3390/VACCINES11061074>.
25. Zihlif, M., Abusara, O. H., **Al-Qerem, W.**, Al-Ibadah, M., Mahafza, T. M., Al-Akhras, F. M., & Mahafza, N. T. (2023). CRHR1 polymorphism at rs242941, rs242940, and rs72834580: association of symptoms improvement with intranasal corticosteroids in allergic rhinitis Jordanian patients. *Drug Metabolism and Personalized Therapy*, 0(0). <https://doi.org/10.1515/DMPT-2023-0014>.
26. Jarab, A. S., **Al-Qerem, W.**, Shattat, G., Abu Heshmeh, S., Mukattash, T. L., & Aburuz, S. (2023). Adverse-drug reaction reporting by Pharm D students during hospital training. *Saudi Pharmaceutical Journal*. <https://doi.org/10.1016/J.JSPS.2023.05.012>.
27. Jarab, A. S., **Al-Qerem, W. A.**, Hamam, H. W., Alzoubi, K. H., Heshmeh, S. R. A., Mukattash, T. L., & Alefishat, E. (2023). Medication Adherence and Its Associated Factors Among Outpatients with Heart Failure. *Patient Preference and Adherence*, 17, 1209–1220. <https://doi.org/10.2147/PPA.S410371>.



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28. Jarab, A. S., **Al-Qerem, W.**, Hamam, H., Abu Heshmeh, S., Mukattash, T. L., & Alefishat, E. A. (2023). Factors associated with lipid control in outpatients with heart failure. *Frontiers in Cardiovascular Medicine*, *10*, 665. <https://doi.org/10.3389/FCVM.2023.1153310>.
29. Jarab, A. S., Hamam, H. W., **Al-Qerem, W. A.**, Heshmeh, S. R. A., Mukattash, T. L., & Alefishat, E. A. (2023). Health-related quality of life and its associated factors among outpatients with heart failure: a cross-sectional study. *Health and Quality of Life Outcomes* *2023 21:1*, *21*(1), 1–8. <https://doi.org/10.1186/S12955-023-02142-W>.
30. Awwad, O., AlMuhaissen, S. A., Al-Kharouf, M., Al-Nashwan, A., Abdeljalil, M., & **Al-Qerem, W.** (2023). Validation of the Arabic Version of the Health Literacy (HLS-Q12) Questionnaire in chronically ill patients. *Health Promotion International*, *38*(3). <https://doi.org/10.1093/HEAPRO/DAAD037>.
31. Jarab, A. S., Hamam, H. W., **Al-Qerem, W. A.**, Heshmeh, S. R. A., & Mukattash, T. L. (2023). Blood pressure control and its associated factors among patients with heart failure in Jordan. *Journal of Human Hypertension*, 1–8. <https://doi.org/10.1038/s41371-023-00807-z>
32. **Al-Qerem, W.**, Bargooth, A., Jarab, A., Akour, A., & Heshmeh, S. A. (2023). Information sources, attitudes, and practices of Self-Medication by Jordanian patients: A cross-sectional study. *Saudi Pharmaceutical Journal*, *31*(4), 482–491. <https://doi.10.1016/j.jsps.2023.01.015>.
33. Jarab, A. S., **Al-Qerem, W.**, & Mukattash, T. L. (2023). Information technology in pharmacy practice: Barriers and utilization. *Journal of Applied Pharmaceutical Science*, *13*(1), 150–155. <https://doi.10.7324/JAPS.2023.130114>.
34. Jarab, A. S., **Al-Qerem, W.**, Alqudah, S., Abu Heshmeh, S. R., Mukattash, T. L., & Alzoubi, K. H. (2023). Blood pressure control and its associated factors in patients with hypertension and type 2 diabetes. *Electronic Journal of General Medicine*, *20*(3), em477. <https://doi.org/10.29333/ejgm/13028>.
35. **Al-Qerem, W.**, Jarab, A., Heshmeh, S. R. A., Ling, J. (2023). Variables associated with asthma control among adult patients. *Journal of Asthma*, *60*:7, 1290-1298 . <https://doi.org/10.1080/02770903.2022.2144351>
36. Alsajri, A., Shubber, M., & **Al-Qerem, W.** (2022). Cross-allergic reactions between etoposide and penicillin in autologous bone marrow transplant patient. *Iraqi Journal of Hematology*, *0*(0), 0. https://doi.org/10.4103/IJH.IJH_25_22.



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37. Jarab, A. S., **Al-Qerem, W.**, Mukattash, T. L., Alqudah, S. G., Abu-Zaytoun, L., Al-Azayzih, A., & Khmour, M. (2022). Public Perception of Pharmacist's Role during COVID-19 Outbreak in Jordan. *Jordan Journal of Pharmaceutical Sciences*, 15(3), 365–377. <https://doi.org/10.35516/JJPS.V15I3.410>
38. Khmour, S. I., Al-Naimat, O. S., Jarrar, W., **Al-Qerem, W.**, & Khmour, F. A. (2022). The Influence of TNF- α , IL-6, TGF- β 1, INF- γ , IL-10 Polymorphisms on Predisposition to Diabetes Mellitus among Jordanian Patients. *Endocrine, Metabolic & Immune Disorders - Drug Targets*, 22. <https://doi.org/10.2174/1871530322666220827143530>.
39. Hammad AM, **Al-Qerem W**, Sunoqrot SZ, Amawi HA, Arabyat RM, Ling J, Robertshaw C. Pharmacy students' perceptions and attitudes towards experiential training in Jordan and United Kingdom. *Trop J Pharm Res* 2022; 21: 1531–1541.
40. Jarab, A. S., **Al-Qerem, W.**, Mukattash, T. L., Al-Hajjeh, D., Al-Azayzih, A., & Hammour, K. A. (2022). Impact of Distance Learning on Pharmacy and Pharm.D Undergraduates' during the COVID-19 Pandemic in Jordan. *Jordan Journal of Pharmaceutical Sciences*, 15(3), 355–364. <https://doi.org/10.35516/JJPS.V15I3.409>
41. Saleh, M. M., Awwad, O., Abdel Jalil, M. H., **Al-Qerem, W.**, Saleh, M., al Thaher, Y., & Abdelghany, S. (2022). Correlation of skin cancer and actinic keratosis-related knowledge and sun protection behaviors and sunscreen use among a sample of Jordanian population. *Journal of Cosmetic Dermatology*, 21(12), 7066–7074. <https://doi.org/10.1111/jocd.15377>.
42. **Al-Qerem W**, Carter N, Ling J. Attitudes to Organ Donation and Transplantation: An Insight From Jordan. *Exp Clin Transplant Off J Middle East Soc Organ Transplant* 2022; 20: 602–608.
43. Ikhmais B, Hammad AM, **Al-Qerem W**, Abusara OH, Ling J. Conducting COVID-19-related research in Jordan: Are we ready? *Disaster Med Public Health Prep* 2020; 1–8.
44. Hammad, A. M., **Al-Qerem, W.**, Zaid, A. A., Khmour, S. I., & Hall, F. S. (2023). Misconceptions related to COVID 19 vaccines among the Jordanian population: Myth and Public Health. *Disaster Medicine and Public Health Preparedness*, 17, e207. <https://doi.10.1017/dmp.2022.143>.
45. **Al-Qerem W**, Jarab AS, Qarqaz R, Ling J, Al Hayek M. Knowledge, Attitudes, and Practices Toward Iron-Deficiency Anemia Among Jordanian Women: A Cross-sectional Study. *Top Clin Nutr* 2022; 37: 253–263.



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46. **Al-Qerem W**, Jarab A, Hammad A, Alsajri AH, Al-Hishma SW, Ling J, Alabdullah AS, Salama A, Mosleh R. Knowledge, Attitudes, and Practices of Adult Iraqi Population Towards COVID-19 Booster Dose: A Cross-Sectional Study. *Patient Prefer Adherence* 2022; 16: 1525.
47. Hammad AM, **Al-Qerem W**, Alasmari F, Ling J, Qarqaz R, Alaqabani H. Identifying Drug-Therapy Problems among Syrian Refugees in Zaatari Refugee Camp. *Int J Environ Res Public Health* 2022; 19: 7199.
48. **Al-Qerem W**, Hammad A, Jarab A, Saleh MM, Amawi HA, Ling J, Alasmari F. Knowledge, attitudes, and practice with respect to antibiotic use among pharmacy students: a cross-sectional study. *Eur Rev Med Pharmacol Sci* 2022; 26: 3408–3418.
49. **Al-Qerem W**, Jarab A, Hammad A, Alasmari F, Ling J, Alsajri AH, Al-Hishma SW, Abu Heshmeh SR. Iraqi Parents' Knowledge, Attitudes, and Practices towards Vaccinating Their Children: A Cross-Sectional Study. *Vaccines* 2022; 10: 820.
50. **Al-Qerem W**, Jarab AS, Badinjki M, Hammad A, Ling J, Alasmari F. Factors associated with glycemic control among patients with type 2 diabetes: a cross-sectional study. *Eur Rev Med Pharmacol Sci* 2022; 26: 2415–2421.
51. Hammad AM, **Al Qerem W**, Alaqabani H, Alasmari F, Ling J. Factors influencing hypertension and diabetes mellitus control among Syrian refugees in Zaatari refugee camp. *Eur Rev Med Pharmacol Sci* 2022; 26: 2408–2414.
52. **Al-Qerem W**, Al Bawab AQ, Abusara O, Alkhatib N, Horne R. Validation of the Arabic version of medication adherence report scale questionnaire and beliefs about medication-specific questionnaire: A factor analysis study. *PLoS One* 2022; 17: e0266606.
53. Jarab, A. S., **Al-Qerem, W.**, Mukattash, T. L., Abuhishmah, S. R., & Alkhdour, S. (2022). Pharmacists' knowledge and attitudes toward medication therapy management service and the associated challenges and barriers for its implementation. *Saudi Pharmaceutical Journal*.
<https://doi.org/10.1016/J.JSPS.2022.03.008>.
54. Jarab FS, **Al-Qerem W**, Qarqaz R. Oral Cancer Awareness, Attitudes, and Barriers among Jordanian Adults: A Cross-sectional Study. *Oral Health Prev Dent* 2022; 20: 85–94.



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55. **Al-Qerem W**, Al Bawab AQ, Hammad A, Ling J, Alasmari F. Willingness of the Jordanian population to receive a COVID-19 booster dose: a cross-sectional study. *Vaccines* 2022; 10: 410.
56. **Al-Qerem W**, Al Bawab AQ, Hammad A, Jaber T, Khair SI, Kalloush H, Ling J, Mosleh R. Parents' attitudes, knowledge and practice towards vaccinating their children against COVID-19: a cross-sectional study. *Hum Vaccin Immunother* 2022; 1–10.
57. Alqudah MAY, Mukattash TL, Al-Shammari E, Jarab AS, **Al-Qerem W**, Abu-Farha RK. An Audit on Pharmacists' Knowledge and Experience in Pediatric Care. *J Pediatr Pharmacol Ther* 2022; 27: 172–179.
58. **Al-Qerem W**, Hammad A, Alsajri AH, Al-Hishma SW, Ling J, Mosleh R. COVID-19 Vaccination Acceptance and Its Associated Factors Among the Iraqi Population: A Cross Sectional Study. *Patient Prefer Adherence* 2022; 16: 307.
59. Jarab F, **Al-Qerem W**, Jarab AS, Banyhani M. Faculties' Satisfaction With Distance Education During COVID-19 Outbreak in Jordan. *Front Educ* 7 789648 doi 103389/feduc.
60. Jarab AS, **Al-Qerem W**, Mukattash TL. Community pharmacists' willingness and barriers to provide vaccination during COVID-19 pandemic in Jordan. *Hum Vaccin Immunother* 2022; 18: 2016009.
61. **Al-Qerem W**, Jarab AS, Badinjki M, Qarqaz R. Validating a tool to measure quality of life among type 2 diabetics and exploring variables associated with it. *Diabetes Epidemiol Manag* 2022; 5: 100039.
62. Mukattash TL, Jarab AS, **Al-Qerem W**, Abu Farha RK, Itani R, Karout S, Mukattash IL. Coronavirus disease patients' views and experiences of pharmaceutical care services in Lebanon. *Int J Pharm Pract* 2022; 30: 82–85.
63. **Al-Qerem W**, Jarab AS, Qarqaz R, Hayek M Al. Attitudes of a sample of Jordanian young adults toward different available COVID-19 vaccines. *Vacunas* 2022; 23: S56–S63.
64. Alassi A, **Al-Qerem W**, hameed Ali D, Ling J. Iraqi primary care physician's knowledge, attitudes, and practices (KAP) oward anticoagulant therapy in patients with nonvalvular atrial fibrillation: A cross sectional study . *Pharmacogyonline* 2021; 3: 1385–1397.
65. Al Bawab AQ, **Al-Qerem W**, Abusara O, Alkhatib N, Mansour M, Horne R. What Are the Factors Associated with Nonadherence to Medications in Patients with Chronic Diseases? In: *Healthcare. MDPI*, 2021: 1237.



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66. **Al-Qerem W**, Jarab AS, Badinjki M, Hyassat D, Qarqaz R. Exploring variables associated with medication non-adherence in patients with type 2 diabetes mellitus. *PLoS One* 2021; 16: e0256666.
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