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Section of Chemical Pathology

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SUMMARY:

Publication	52
Book Chapters	02
CONTRIBUTIONS TO REPORTS, GUIDELINES, AND POLICY DOCUMENTS:	00

PUBLICATION:

Year 2023:

1. Assessing the knowledge, attitude and practice of osteoporosis among Pakistani women: A national social-media based survey. **Ahmed S**, Farooqui AJ, Pradhan NA, Zehra N, Majid H, Jafri L and Khan AH. PLoS One. 2023 Nov 10;18(11):e0288057. DOI: [10.1371/journal.pone.0288057](https://doi.org/10.1371/journal.pone.0288057)
2. Indirect Reference Intervals of Serum Calcium in Pakistani Children Using KOSMIC, Bhattacharya, and Hoffman Approach. **Ahmed S**, Agravatt AK, Siddiqui A, Jafri L and Siddiqui I. Clin Lab. 2023 Sep 1;69(9). DOI: [10.7754/Clin.Lab.2023.230305](https://doi.org/10.7754/Clin.Lab.2023.230305)
3. Sequence variants in the BTD underlying biotinidase deficiency in families of Pakistani origin. Moatter T, **Ahmed S**, Majid H, Jafri L, Bilal M, Najumuddin, Faisal and Khan AH. J Gene Med. 2023 Sep 26:e3597. DOI: [10.1002/jgm.3597](https://doi.org/10.1002/jgm.3597)
4. An Evaluation of the new 2021 Creatinine-Based Equation for Estimating Glomerular Filtration Rate (eGFR) in Pakistanis. **Ahmed S**, Yaqub S, Siddiqui A and Jafri L. Clin Lab. 2023 Aug 1;69(8). DOI: [10.7754/Clin.Lab.2023.230105](https://doi.org/10.7754/Clin.Lab.2023.230105)
5. Evaluation of the clinical, biochemical, and genetic presentation of neonatal and adult-onset 5,10-Methylene-tetrahydrofolate reductase (MTHFR) deficiency in patients from Pakistan. **Ahmed S**, Akbar F, DeBerardinis RJ, Ni M and Afroze B. J Pediatr Endocrinol Metab. 2023 Jul 13. DOI: [10.1515/jpem-2023-0083](https://doi.org/10.1515/jpem-2023-0083)
6. A framework for implementing best laboratory practices for non-integrated point of care tests in low resource settings. Jafri L, **Ahmed S**, Majid H, Ghani F, Pillay T, Khan AH, Siddiqui I, Shakeel S, Ahmed S, Azeem S and Khan A. EJIFCC. 2023 Jul 10;34(2):110-122.
7. Interleukin-6 (IL-6) as a Predictor of Clinical Outcomes in Patients with COVID-19. Mahmood SBZ, Majid H, Arshad A, Zaib-Un-Nisa, Niazali N, Kazi K, Aslam A, **Ahmed S**, Jamil B and Jafri L. Clin Lab. 2023 Jun 1;69(6). DOI: [10.7754/Clin.Lab.2022.220741](https://doi.org/10.7754/Clin.Lab.2022.220741)
8. GRADE-ADOLPMENT of clinical practice guideline for postmenopausal osteoporosis management-a Pakistani context. Nadeem S, Pervez A, Abid MA, Khalid RN, Rizvi NA, Aamdani SS, Ayub B, Mustafa MA, **Ahmed S**, Riaz M, Irfan K, Noordin S, Jafri L, Majid H, Umer M, Zehra N, Sheikh A, Haider AH and Khan AH. Arch Osteoporos. 2023 May 19;18(1):71. DOI: [10.1007/s11657-023-01258-2](https://doi.org/10.1007/s11657-023-01258-2).

9. L-2-hydroxyglutaric aciduria - review of literature and case series. **Ahmed S**, Siddiqui A, DeBerardinis RJ, Ni M, Gu Lai W, Cai F, Vu HS and Afroze B. *Ann Med Surg (Lond)*. 2023 Apr 4;85(4):712-717. DOI: [10.1097/MS9.0000000000000326](https://doi.org/10.1097/MS9.0000000000000326).

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10. Establishment of Population Specific Reference Intervals in Healthy Pakistani Adults for 21 Routine and Special Haematology Analytes. Shaikh MS, **Ahmed S**, Khalid A, Hayat MH, Shaikh MU, Ali N. *EJIFCC*. 2022 Oct 28;33(3):220-232. PMID: [PMC9644092](https://pubmed.ncbi.nlm.nih.gov/39644092/).
11. Virtual assessment, training, and evaluation of clinical laboratory technologists amidst peak Covid-19 pandemic: An observational study. **Ahmed S**, Abbas AM, Jahan F and Ozben T. *J Med Biochem*. 2022 Oct 15;41(4):559-563. DOI: [10.5937/jomb0-33962](https://doi.org/10.5937/jomb0-33962).
12. Assessing Third-Year Medical Students' Perspective on Point of Care Testing Boot Camp: From Bench to Bedside. **Ahmed S**, Jafri L, Majid H, Shakeel S, Ahmed S and Khan AH. 2022 Oct 28;33(3):252-261. PMID: [PMC9644088](https://pubmed.ncbi.nlm.nih.gov/39644088/).
13. Data mining for prothrombin time and international normalized ratio reference intervals in children. *PLoS One*. Shaikh MS and **Ahmed S**. 2022 Oct 27;17(10):e0276884. DOI: [10.1371/journal.pone.0276884](https://doi.org/10.1371/journal.pone.0276884).
14. Utilizing augmented artificial intelligence for aminoacidopathies using collaborative laboratory integrated reporting- A cross-sectional study. Khan ZUN, Jafri L, Hall PL, Schultz MJ, **Ahmed S**, Khan AH and Majid H. *Ann Med Surg (Lond)*. 2022 Sep 23;82:104651. DOI: [10.1016/j.amsu.2022.104651](https://doi.org/10.1016/j.amsu.2022.104651).
15. Evaluation of CSF kappa free light chains for the diagnosis of multiple sclerosis (MS): a comparison with oligoclonal bands (OCB) detection via isoelectric focusing (IEF) coupled with immunoblotting. Abid MA, **Ahmed S**, Muneer S, Khan S, de Oliveira MHS, Kausar R and Siddiqui I. *J Clin Pathol*. 2022 Sep 21:jclinpath-2022-208354. DOI: [10.1136/jcp-2022-208354](https://doi.org/10.1136/jcp-2022-208354).
16. Publication dynamics: what can be done to eliminate barriers to publishing full manuscripts by the postgraduate trainees of a low-middle income country? Majid H, Jafri L, **Ahmed S**, Abid MA, Aamir M, Ijaz A, Khan AH and Siddiqui I. *BMC Res Notes*. 2022 Jul 15;15(1):249. DOI: [10.1186/s13104-022-06138-5](https://doi.org/10.1186/s13104-022-06138-5).
17. Children with lysinuric protein intolerance: Experience from a Lower Middle Income Country. Hashmi SB and **Ahmed S**. *World Journal of Clinical Pediatrics*. 2022 Jul 9;11(4):369-74. DOI: [10.5409/wjcp.v11.i4.369](https://doi.org/10.5409/wjcp.v11.i4.369)
18. Biotin-responsive Multiple Carboxylase Deficiency (MCD). Majid H, **Ahmed S**, Muneer S, Hamid R, Jafri L and Khan AH. *J Coll Physicians Surg Pak*. 2022 Jun;32(6):823-825. DOI: [10.29271/jcpsp.2022.06.823](https://doi.org/10.29271/jcpsp.2022.06.823).
19. Development of a virtual classroom for pre-analytical phase of laboratory medicine for

- undergraduate medical students using the Delphi technique. Jafri L, Abid MA, Rehman J, **Ahmed S**, Abbas G, Ali H, Kanani F, Ali U, Alavi N, Aslam F, Iqbal S, Ijaz A, Munir MU, Dildar S, Nawaz SH, Adnan K, Khan AH, Zubairi AM and Siddiqui I. PLoS One. 2022 Apr 6;17(4):e0264447. DOI: [10.1371/journal.pone.0264447](https://doi.org/10.1371/journal.pone.0264447).
20. Urinary metabolomics using gas chromatography-mass spectrometry: potential biomarkers for autism spectrum disorder. Khan ZUN, Chand P, Majid H, **Ahmed S**, Khan AH, Jamil A, Ejaz S, Wasim A, Khan KA, Jafri L. BMC Neurol. 2022 Mar 17;22(1):101. DOI: [10.1186/s12883-022-02630-4](https://doi.org/10.1186/s12883-022-02630-4).
21. Development and validation of standard and real patient gallstone library using Fourier transform infra-red spectroscopy. Jafri L, Abid MA, Asif H, Hashmi B, Majid H, Ghani F, **Ahmed S**, Siddiqui I and Khan AH. BMC Gastroenterol. 2022 Mar 28;22(1):146. DOI: [10.1186/s12876-022-02227-8](https://doi.org/10.1186/s12876-022-02227-8).
22. Perspective on newborn screening (NBS): Evidence sharing on conditions to be included in NBS in Pakistan. Majid H, Jafri L, **Ahmed S**, Humayun K, Kirmani S, Ali N, Moiz B, Khan AH and Afroze B. J Pak Med Assoc. 2022 Mar;72(3):526-531. DOI: [10.47391/JPMA.01181](https://doi.org/10.47391/JPMA.01181).
23. Reflex Reporting of Estimated Glomerular Filtration Rate (eGFR) with Serum Creatinine: A Win-win Situation for both Patients and Physicians. **Ahmed S** and Jafri L. J Coll Physicians Surg Pak. 2022 Mar;32(3):411. DOI: [10.29271/jcsp.2022.03.411](https://doi.org/10.29271/jcsp.2022.03.411).
24. Forecasting COVID-19 Testing Load Using Google Trends: Experience from a Lower Middle-Income Country with over 10 Million Diagnostic Tests. **Ahmed S**, Abid MA, Olivera MHS, Jafri L, Ahmed ZA and Siddiqui I. Clin Lab. 2022 Feb 1;68(2). DOI: [10.7754/Clin.Lab.2021.210613](https://doi.org/10.7754/Clin.Lab.2021.210613).
25. Clinical, pathological, and molecular spectrum of patients with glycogen storage diseases in Pakistan. **Ahmed S**, Akbar F, Ali AJ and Afroze B. J Pediatr Endocrinol Metab. 2022 Jan 6;35(3):373-385. DOI: [10.1515/jpem-2021-0575](https://doi.org/10.1515/jpem-2021-0575).
26. A Cross-Sectional Evaluation of Vitamin D Status and Ovarian Reserve Markers in Subfertile Women: A Single-Center Experience From Pakistan. **Ahmed S**, Siddiqui A, Qureshi A, Hussain SS, Siddiqui I and Imran U. Cureus. 2022 Jan 31;14(1):e21757. DOI: [10.7759/cureus.21757](https://doi.org/10.7759/cureus.21757).

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27. Clinico-Pathological and Molecular Spectrum of Biotinidase Deficiency- Experience from a Lower Middle-Income Country. **Ahmed S**, DeBerardinis RJ, Ni M, Habib A, Akbar F, Afroze B. J Pediatr Endocrinol Metab. 2021 Jun 1;67(6). DOI: [10.7754/Clin.Lab.2020.200937](https://doi.org/10.7754/Clin.Lab.2020.200937).

28. Diagnostic Accuracy of the Forns Score for Liver Cirrhosis in Patients with Chronic Viral Hepatitis. Bukhari T, Jafri L, Majid H, **Ahmed S**, Khan AH, Abid S, Raza A, Siddiqui I. *Cureus*. 2021 Apr 13;13(4). DOI: [10.7759/cureus.14477](https://doi.org/10.7759/cureus.14477).
29. Evaluation of serum ferritin for prediction of severity and mortality in COVID-19- A cross sectional study. **Ahmed S**, Ahmed ZA, Siddiqui I, Rashid NH, Mansoor M, Jafri L. *Annals of Medicine and Surgery*. 2021 Feb 12. DOI: [10.1016/j.amsu.2021.02.009](https://doi.org/10.1016/j.amsu.2021.02.009).
30. Prognostic Value of Serum Procalcitonin in COVID-19 Patients: A Systematic Review. **Ahmed S**, Jafri L, Hoodbhoy Z, Siddiqui I. *Indian J Crit Care Med*. 2021 Jan;25(1):77-84. DOI: [10.5005/jp-journals-10071-23706](https://doi.org/10.5005/jp-journals-10071-23706).
31. Hajdu Cheney Syndrome due to NOTCH 2 defect – First case report from Pakistan and review of literature. **Ahmed S**, Arif A, Abbas S, Khan MO, Kirmani S, Khan AH. *Annals of Medicine and Surgery*. 2021 Jan 19. DOI: [10.1016/j.amsu.2021.01.041](https://doi.org/10.1016/j.amsu.2021.01.041).
32. Maple syrup urine disease: magnetic resonance imaging findings in three patients. Allahwala A, **Ahmed S**, Afroze B. *Journal of the Pakistan Medical Association*. 2021 Jan 21:1-1. DOI: [10.47391/JPMA.1341](https://doi.org/10.47391/JPMA.1341).

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33. Newborn screening for congenital hypothyroidism: improvement in short-term follow-up by audit and monitoring. Majid H, **Ahmed S**, Siddiqui I, Humayun K, Karimi H, Khan AH. *BMC Res Notes*. 2020 Dec 14;13(1):563. DOI: [10.1186/s13104-020-05400-y](https://doi.org/10.1186/s13104-020-05400-y).
34. Ensuing adequate mixing of blood samples before analysis—A proposed method for verification of satisfactory sample mixing by automated red blood cell count analyzers. Shaikh MS, **Ahmed S**, Shaikh MU, Ali N, Sana N. *International Journal of Laboratory Hematology*. 2020 Dec 29. DOI: [10.1111/ijlh.13447](https://doi.org/10.1111/ijlh.13447).
35. Vitamin B6-dependent epilepsy due to pyridoxal phosphate-binding protein (PLPBP) defect—First case report from Pakistan and review of literature. **Ahmed S**, DeBerardinis RJ, Ni M, Afroze B. *Annals of Medicine and Surgery*. 2020 Dec 1;60:721-727. DOI: [10.1016/j.amsu.2020.11.079](https://doi.org/10.1016/j.amsu.2020.11.079).
36. Calcaneal ultrasound and its relation to dietary and lifestyle factors, anthropometry and Vitamin D deficiency in young medical students. Jafri L, Majid H, **Ahmed S**, Naureen G and Khan AH. *Frontiers in Endocrinology*. 2021 Jan 21;11:601562. DOI: [10.3389/fendo.2020.601562](https://doi.org/10.3389/fendo.2020.601562).
37. Trend analysis of lab tests requisitions of COVID-19 prognostic biomarkers at a clinical chemistry reference laboratory-an observational study. **Ahmed S**, Ghani F. *Annals of Medicine and Surgery*. 2020 Nov 6. doi: [10.1016/j.amsu.2020.10.067](https://doi.org/10.1016/j.amsu.2020.10.067).

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39. Impact of COVID-19 on Laboratory Professionals-A Descriptive Cross Sectional Survey at a Clinical Chemistry Laboratory in a Developing Country. Jafri L, Ahmed S, Siddiqui I. Annals of Medicine and Surgery. 2020 July 12. (Corresponding Author) (Impact Factor:0.61). [doi: 10.1016/j.amsu.2020.07.022](https://doi.org/10.1016/j.amsu.2020.07.022).
40. Glycogen storage diseases-time to flip the outdated diagnostic approach centered on liver biopsy with the molecular testing. **Ahmed S**, Afroze B. Pakistan Journal of Medical Sciences. 2020; 36 (2). (Impact Factor:0.834). [doi: 10.12669/pjms.36.2.1310](https://doi.org/10.12669/pjms.36.2.1310).
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Year 2019

44. Is It T3 Thyrotoxicosis? A Case of Falsely Elevated Tri-Iodothyronine (T3) Levels Leading to a Diagnosis of Multiple Myeloma. Ram N, Furqan S and **Ahmed S**. Vol. 2019. (Impact Factor:2.50).DOI: [10.1155/2019/5028534](https://doi.org/10.1155/2019/5028534).
45. Iodine Deficiency in Neonates: Where Do We Stand After a Quarter Century of Initiating Iodization Programs? Jafri L, Majid H, **Ahmed S**, Siddiqui I, Ghani F, Khan AH. Laboratory Medicine Online. 2019 Oct 1;9(4):232-5. https://ecommons.aku.edu/pakistan_fhs_mc_pathol_microbiol/1199.
46. Unique Classification of Parathyroid Dysfunction in Patients with Transfusion Dependent Thalassemia Major Using Nomogram-A Cross Sectional Study. Majid H, Jafri L, **Ahmed S**, Talati J, Moiz B, Khan AH. Annals of Medicine and Surgery. 2019 Jul 11. (Impact Factor:0.61). DOI: [10.1016/j.amsu.2019.07.016](https://doi.org/10.1016/j.amsu.2019.07.016).
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Year 2018

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Year 2017

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BOOK CHAPTERS:

1. **Ahmed S** book, "Procalcitonin: Utility as a biomarker for suspected sepsis" LAP LAMBERT Academic Publishing (2018-12-07. ISBN number: 978-613-9-97402-3).
2. **Ahmed S** book chapter co-authored, "Cardiac Biomarkers" Chemical Pathology for the beginners, Azeem Publishers, Publishers and Book Sellers, 120-Riwaz Garden, Lahore Pakistan (2019-25- 07. ISBN: 978-969-697-030-9).