



EPIDEMIOLOGY & PUBLIC HEALTH

1. Almadhi, M., Abdulrahman, A., Sharaf, S., AlSaad, D., Stevenson, N., Atkin, S. and AlQahtani, M., 2021. The high prevalence of asymptomatic SARS-CoV-2 infection reveals the silent spread of COVID-19. *International Journal of Infectious Diseases*,. <https://doi.org/10.1016/j.ijid.2021.02.100>
2. AbdulRahman A, AlSabbagh M, AlAwadhi A, Al-Tawfiq J, Rabaan A, Atkin S, AlQahtani M. (2020) Quarantining Arriving Travelers in the era of COVID-19: balancing the risk and benefits a learning experience from Bahrain. Tropical diseases, Travel Medicine and Vaccines. <https://doi.org/10.1186/s40794-020-00128-w>
3. Al-Qahtani M, AlAli S, AbdulRahman A, Salman Alsayyad A, Otoom S, Atkin S. The prevalence of asymptomatic and symptomatic COVID19 disease in a cohort of quarantined subjects. *International Journal of Infectious Diseases*. 2020;. <https://doi.org/10.1016/j.ijid.2020.10.091>
4. Rabaan, A. A., Al-Ahmed, S. H., Al-Malkey, M., Alsubki, R., Ezzikouri, S., Al-Hababi, F. H., Sah, R., Al Mutair, A., Alhumaid, S., Al-Tawfiq, J. A., Al-Omari, A., Al-Qaaneh, A. M., Al-Qahtani, M., Tirupathi, R., Al Hamad, M. A., Al-Baghli, N. A., Sulaiman, T., Alsubait, A., Mehta, R., Abass, E., ... Rodriguez-Morales, A. J. (2021). Airborne transmission of SARS-CoV-2 is the dominant route of transmission: droplets and aerosols. *Le infezioni in medicina*, 29(1), 10–19. <https://pubmed.ncbi.nlm.nih.gov/33664169/>
5. Mallah, S., Abdulrahman, A., Alawadhi, A., & AlQahtani, M. (2021). Clinical and Epidemiological Characteristics of COVID-19 in a Multi-National Cohort in the Middle East. *Journal Of Epidemiology And Global Health*. <https://doi.org/10.2991/jegh.k.210306.001>
6. Jaffar A. Al-Tawfiq, Ali A. Rabaan, Awad Al-Omari, Abbas Al Mutair, Manaf Al-Qahtani, Raghavendra Tirupathi, Learning from SARS and MERS: COVID-19 reinfection where we stand?, *Travel Medicine and Infectious Disease*, 2021, 102024, 1477-8939, <https://doi.org/10.1016/j.tmaid.2021.102024>.
7. Kumar N, Quadri S, AlAwadhi Al and AlQahtani M (2022) COVID-19 Recovery Patterns Across Alpha (B.1.1.7) and Delta (B.1.617.2) Variants of SARS-CoV-2. *Front. Immunol.* 13:812606. <https://doi.org/10.3389/fimmu.2022.812606>



DIAGNOSTIC

1. Alarabi D, Abdulrahman A, Alali S, Yaghi O, Alqahtani M. (2020) Utility of serological VivaDiag IgM/IgG rapid test kits for COVID-19 screening, during disease progression and following recovery .Indian Journal of Science and Technology .13(34): 3510-3514. <https://doi.org/10.17485/IJST/v13i34.1575>
2. Naguib M, Moustafa F, Salman MT, Saeed NK, Al-Qahtani M. The use of radiological imaging alongside reverse transcriptase PCR in diagnosing novel coronavirus disease 2019: a narrative review. Future Microbiol. 2020 Jul;15:897-903. doi: 10.2217/fmb-2020-0098. Epub 2020 Jul 8. PMID: 32638613; PMCID: PMC7341952. <https://doi.org/10.2217/fmb-2020-0098>
3. Alqahtani, M., Abdulrahman, A., Mustafa, F., Alawadhi, A., Alalawi, B., & Mallah, S. (2022). Evaluation of Rapid Antigen Tests Using Nasal Samples to Diagnose SARS-CoV-2 in Symptomatic Patients. Frontiers In Public Health, 9. <https://doi.org/10.3389/fpubh.2021.728969>



CLINICAL AND TREATMENT

1. Abdulrahman A, AlSayed I, AlMadhi M, AlArayedh J, Mohamed SJ, Sharif AK, Alansari K, AlAwadhi AI, AlQahtani M. The efficacy and safety of hydroxychloroquine in COVID19 patients: a multicenter national retrospective cohort. Infectious Diseases and Therapy. 2020 <https://doi.org/10.1007/s40121-021-00397-8>
2. Abdulrahman A, Wael M, AlAmmadi F, AlMosawi Z, AlSherooqi R, Abduljalil M, Kumar N, AlQahtani M. Is Sickle Cell Disease A Risk Factor For Sever COVID-19: : A Multicenter National Retrospective Cohort. European Journal of Hematology. 2020 <https://doi.org/10.1002/jha2.170>
3. AbdulRahman A, AlAli S, Yaghi O, Shabaan M, Otoom S, Atkin SL, AlQahtani M. COVID-19 and sickle cell disease in Bahrain. International Journal of Infectious Diseases. 2020 Dec 1;101:14-6. <https://doi.org/10.1016/j.ijid.2020.09.1433>
4. Almadhi, M. A., Abdulrahman, A., Alawadhi, A., Rabaan, A. A., Atkin, S., & AlQahtani, M. (2021). The effect of ABO blood group and antibody class on the risk of COVID-19 infection and severity of clinical outcomes. *Scientific reports*, 11(1), 5745. <https://doi.org/10.1038/s41598-021-84810-9>
5. AlAli SY, Abdulrahman A, Yaghi O, Janahi E, AlQahtani M. SARS-Cov-2 Viral



Load as an Indicator for COVID-19 Patients Hospital Stay. Journal of The Bahrain Medical Society 2020 ;doi: https://doi.org/10.26715/jbms.33_2021_2_1

6. AlQahtani, M., Abdulrahman, A., Almadani, A., Alali, S., Al Zamrooni, A., & Hejab, A. et al. (2021). Randomized controlled trial of convalescent plasma therapy against standard therapy in patients with severe COVID-19 disease. *Scientific Reports*, 11(1). <https://doi.org/10.1038/s41598-021-89444-5>
7. Mallah, S., Ghorab, O., Al-Salmi, S., Abdellatif, O., Tharmaratnam, T., & Alqahtani,M et al. (2021). COVID-19: breaking down a global health crisis. *Annals Of Clinical Microbiology And Antimicrobials*, 20(1). <https://doi.org/10.1186/s12941-021-00438-7>
8. Abdulrahman, A., Mallah, S.I. & Alqahtani, M. COVID-19 viral load not associated with disease severity: findings from a retrospective cohort study. *BMC Infect Dis* 21, 688 (2021). <https://doi.org/10.1186/s12879-021-06376-1>
9. Al-Tawfiq, J.A., Alhumaid, S., Alshukairi, A.N. Alqahtani ,M et al. COVID-19 and mucormycosis superinfection: the perfect storm. *Infection* (2021). <https://doi.org/10.1007/s15010-021-01670-1>
10. Jassim G, Jameel M, Brennan E, Yusuf M, Hasan N, Alwatani Y. Psychological Impact of COVID-19, Isolation, and Quarantine: A Cross-Sectional Study. *Neuropsychiatr Dis Treat*. 2021 May 11;17:1413-1421. doi: 10.2147/NDT.S311018. PMID: 34007180; PMCID: PMC8123965. <https://doi.org/10.2147/NDT.S311018>
11. Abdulrahman, A., Mallah, S., AlAwadhi, A.I., Perna, S., Janahi, E. and AlQahtani, M., 2020. Association between RT-PCR Ct Values and COVID-19 New Daily Cases: A Multicenter Cross-Sectional Study. *Le Infezioni in Medicina*, n. 3, 416-426, 2021 <https://doi.org/10.53854/liim-2903-13>
12. Kumar, N., AbdulRahman, A., AlAwadhi, A.I. et al. Is glucose-6-phosphatase dehydrogenase deficiency associated with severe outcomes in hospitalized COVID-19 patients?. *Sci Rep* 11, 19213 (2021). <https://doi.org/10.1038/s41598-021-98712-3>
13. Naser, M., Al-Ghatam, R., Darwish, A., Alqahtani, M., Alahmadi, H., Mohamed, K., Hasan, N. and Perez, N., 2021. Risk factors, predictions, and progression of acute kidney injury in hospitalized COVID-19 patients: An observational retrospective cohort study. *PLOS ONE*, 16(9), p.e0257253. <https://doi.org/10.1371/journal.pone.0257253>
14. Axfors, C., Janiaud, P., Schmitt, A.M. et al. Association between convalescent plasma treatment and mortality in COVID-19: a collaborative systematic review and meta-analysis of randomized clinical trials. *BMC Infect Dis* 21, 1170 (2021). <https://doi.org/10.1186/s12879-021-06829-7>
15. Chachar, T., Yousuf, N., Sulaiibikh, L., Abdulqader, F., & Alqahtani, M. (2021). First Report of Acute Myocarditis Post-Pfizer-BioNTech COVID-19 Vaccination in the Kingdom of Bahrain. *Cureus*. <https://doi.org/10.7759/cureus.20313>



VACCINE

1. Al Kaabi, N., Zhang, Y., Xia, S., Yang, Y., Al Qahtani, M., & Abdulrazzaq, N. et al. (2021). Effect of 2 Inactivated SARS-CoV-2 Vaccines on Symptomatic COVID-19 Infection in Adults. *JAMA*. <https://doi.org/10.1001/jama.2020.15543>
2. Rabaan AA, Al-Ahmed SH, Sah R, Al-Tawfiq JA, Al-Qaaneh AM, Al-Jamea LH, Woodman A, Al-Qahtani M, Haque S, Harapan H, Bonilla-Aldana DK, Kumar P, Dhama K, Rodriguez- Morales AJ. Recent advances in vaccine and immunotherapy for COVID-19. *Hum Vaccin Immunother*. 2020 Nov 6:1-12. doi: 10.1080/21645515.2020.1825896. Epub ahead of print. PMID: 33156739. <https://doi.org/10.1080/21645515.2020.1825896>
3. Alqahtani, M., Mallah, S.I., Stevenson, N. et al. Vaccine trials during a pandemic: potential approaches to ethical dilemmas. *Trials* 22, 628 (2021). <https://doi.org/10.1186/s13063-021-05597-8>



Guidance and recommendation

1. Evidence to recommendations: COVID-19 mitigation in the aviation sector ; WHO Publication ; 27 November 2020 ; COVID-19: Travel, Points of Entry and Border Health <https://www.who.int/publications/i/item/evidence-to-recommendation-covid-19-mitigation-in-the-aviation-sector>
2. Evidence to recommendations: Methods used for assessing health equity and human rights considerations in COVID-19 and aviation ; 23 December 2020 ; COVID-19: Travel, Points of Entry and Border Health <https://www.who.int/publications/i/item/evidence-to-recommendations-methods-used-for-assessing-health-equity-and-human-rights-considerations-in-covid-19-and-aviation>



Complete list of publications related to Bahrain effort against COVID-19

Published in 2020: (12 Research Articles)

1. AbdulRahman A, AlAli S, Yaghi O, Shabaan M, Otoom S, Atkin SL, AlQahtani M. COVID-19 and sickle cell disease in Bahrain. International Journal of Infectious Diseases. 2020 Dec 1;101:14-6. <https://doi.org/10.1016/j.ijid.2020.09.1433>
2. Al-Qahtani M, AlAli S, AbdulRahman A, Salman Alsayyad A, Otoom S, Atkin S. The prevalence of asymptomatic and symptomatic COVID19 disease in a cohort of quarantined subjects. International Journal of Infectious Diseases. 2020;. <https://doi.org/10.1016/j.ijid.2020.10.091>
3. Alarabi D, Abdulrahman A, Alali S, Yaghi O, Alqahtani M. (2020) Utility of serological VivaDiag IgM/IgG rapid test kits for COVID-19 screening, during disease progression and following recovery .Indian Journal of Science and Technology .13(34): 3510-3514. <https://doi.org/10.17485/IJST/v13i34.1575>
4. AbdulRahman A, AlSabbagh M, AlAwadhi A, Al-Tawfiq J, Rabaan A, Atkin S, AlQahtani M. (2020) Quarantining Arriving Travelers in the era of COVID-19: balancing the risk and benefits a learning experience from Bahrain. Tropical diseases, Travel Medicine and Vaccines. <https://doi.org/10.1186/s40794-020-00128-w>
5. Rabaan AA, Al-Ahmed SH, Sah R, Al-Tawfiq JA, Al-Qaaneh AM, Al-Jamea LH, Woodman A, Al-Qahtani M, Haque S, Harapan H, Bonilla-Aldana DK, Kumar P, Dhama K, Rodriguez- Morales AJ. Recent advances in vaccine and immunotherapy for COVID-19. Hum Vaccin Immunother. 2020 Nov 6:1-12. doi: 10.1080/21645515.2020.1825896. Epub ahead of print. PMID: 33156739. <https://doi.org/10.1080/21645515.2020.1825896>
6. Naguib M, Moustafa F, Salman MT, Saeed NK, Al-Qahtani M. The use of radiological imaging alongside reverse transcriptase PCR in diagnosing novel coronavirus disease 2019: a narrative review. Future Microbiol. 2020 Jul;15:897-903. doi: 10.2217/fmb- 2020-0098. Epub 2020 Jul 8. PMID: 32638613; PMCID: PMC7341952. <https://doi.org/10.2217/fmb-2020-0098>
7. Abdulrahman A, AlSayed I, AlMadhi M, AlArayedh J, Mohamed SJ, Sharif AK, Alansari K, AlAwadhi AI, AlQahtani M. The efficacy and safety of hydroxychloroquine in COVID19 patients: a multicenter national retrospective cohort. Infectious Diseases and Therapy. 2020 <https://doi.org/10.1007/s40121-021-00397-8>
8. Abdulrahman A, Wael M, AlAmmadi F, AlMosawi Z, AlSherooqi R, Abduljalil M,



Kumar N, AlQahtani M. Is Sickle Cell Disease A Risk Factor For Sever COVID-19: : A Multicenter National Retrospective Cohort. [European Journal of Hematology.](#) 2020 <https://doi.org/10.1002/jha2.170>

9. AlAli SY, Abdulrahman A, Yaghi O, Janahi E, AlQahtani M. SARS-CoV-2 Viral Load as an Indicator for COVID-19 Patients Hospital Stay. Journal of The Bahrain Medical Society 2020 ;doi: https://doi.org/10.26715/jbms.33_2021_2_1
10. Abdulrahman, A., Mallah, S., AlAwadhi, A.I., Perna, S., Janahi, E. and AlQahtani, M., 2020. Association between RT-PCR Ct Values and COVID-19 New Daily Cases: A Multicenter Cross-Sectional Study. *Le Infezioni in Medicina*, n. 3, 416-426, 2021 <https://doi.org/10.53854/liim-2903-13>
11. Evidence to recommendations: COVID-19 mitigation in the aviation sector ; WHO Publication ; 27 November 2020 ; COVID-19: Travel, Points of Entry and Border Health <https://www.who.int/publications/i/item/evidence-to-recommendation-covid-19-mitigation-in-the-aviation-sector>
12. Evidence to recommendations: Methods used for assessing health equity and human rights considerations in COVID-19 and aviation ; 23 December 2020 ; COVID-19: Travel, Points of Entry and Border Health <https://www.who.int/publications/i/item/evidence-to-recommendations-methods-used-for-assessing-health-equity-and-human-rights-considerations-in-covid-19-and-aviation>

Published in 2021: (15 Research Articles)

13. Almadhi, M., Abdulrahman, A., Sharaf, S., AlSaad, D., Stevenson, N., Atkin, S. and AlQahtani, M., 2021. The high prevalence of asymptomatic SARS-CoV-2 infection reveals the silent spread of COVID-19. *International Journal of Infectious Diseases.*, <https://doi.org/10.1016/j.ijid.2021.02.100>
14. Rabaan, A. A., Al-Ahmed, S. H., Al-Malkey, M., Alsubki, R., Ezzikouri, S., Al-Hababi, F. H., Sah, R., Al Mutair, A., Alhumaid, S., Al-Tawfiq, J. A., Al-Omari, A., Al-Qaaneh, A. M., Al-Qahtani, M., Tirupathi, R., Al Hamad, M. A., Al-Baghli, N. A., Sulaiman, T., Alsubait, A., Mehta, R., Abass, E., Rodriguez-Morales, A. J. (2021). Airborne transmission of SARS-CoV-2 is the dominant route of transmission: droplets and aerosols. *Le infezioni in medicina*, 29(1), 10–19. <https://pubmed.ncbi.nlm.nih.gov/33664169/>
15. Almadhi, M. A., Abdulrahman, A., Alawadhi, A., Rabaan, A. A., Atkin, S., & AlQahtani, M. (2021). The effect of ABO blood group and antibody class on the risk of COVID-19 infection and severity of clinical outcomes. *Scientific reports*, 11(1), 5745.



<https://doi.org/10.1038/s41598-021-84810-9>

16. Mallah, S., Abdulrahman, A., Alawadhi, A., & AlQahtani, M. (2021). Clinical and Epidemiological Characteristics of COVID-19 in a Multi-National Cohort in the Middle East. *Journal Of Epidemiology And Global Health*.
<https://doi.org/10.2991/jegh.k.210306.001>
17. Jaffar A. Al-Tawfiq, Ali A. Rabaan, Awad Al-Omari, Abbas Al Mutair, Manaf Al-Qahtani, Raghavendra Tirupathi, Learning from SARS and MERS: COVID-19 reinfection where we stand?, Travel Medicine and Infectious Disease, 2021, 102024, 1477-8939, <https://doi.org/10.1016/j.tmaid.2021.102024>.
18. AlQahtani, M., Abdulrahman, A., Almadani, A., Alali, S., Al Zamrooni, A., & Hejab, A. et al. (2021). Randomized controlled trial of convalescent plasma therapy against standard therapy in patients with severe COVID-19 disease. *Scientific Reports*, 11(1). <https://doi.org/10.1038/s41598-021-89444-5>
19. Mallah, S., Ghorab, O., Al-Salmi, S., Abdellatif, O., Tharmaratnam, T., & Alqahtani , M. et al. (2021). COVID-19: breaking down a global health crisis. *Annals Of Clinical Microbiology And Antimicrobials*, 20(1).
<https://doi.org/10.1186/s12941-021-00438-7>
20. Al Kaabi, N., Zhang, Y., Xia, S., Yang, Y., Al Qahtani, M., & Abdulrazzaq, N. et al. (2021). Effect of 2 Inactivated SARS-CoV-2 Vaccines on Symptomatic COVID-19 Infection in Adults. *JAMA*. <https://doi.org/10.1001/jama.2020.15543>
21. Abdulrahman, A., Mallah, S.I. & Alqahtani, M. COVID-19 viral load not associated with disease severity: findings from a retrospective cohort study. *BMC Infect Dis* 21, 688 (2021). <https://doi.org/10.1186/s12879-021-06376-1>
22. Jassim G, Jameel M, Brennan E, Yusuf M, Hasan N, Alwatani Y. Psychological Impact of COVID-19, Isolation, and Quarantine: A Cross-Sectional Study. *Neuropsychiatr Dis Treat*. 2021 May 11;17:1413-1421. doi: 10.2147/NDT.S311018. PMID: 34007180; PMCID: PMC8123965. <https://doi.org/10.2147/NDT.S311018>
23. Al-Tawfiq, J., Alhumaid, S., Alshukairi, A., Temsah, M., Barry, M., Al Mutair, A., Rabaan, A., Al-Omari, A., Tirupathi, R., AlQahtani, M., AlBahrani, S. and Dhama, K., 2021. COVID-19 and mucormycosis superinfection: the perfect storm. *Infection*, <https://doi.org/10.1007/s15010-021-01670-1>
24. Kumar, N., AbdulRahman, A., AlAwadhi, A.I. et al. Is glucose-6-phosphatase dehydrogenase deficiency associated with severe outcomes in hospitalized COVID-19 patients?. *Sci Rep* 11, 19213 (2021).



<https://doi.org/10.1038/s41598-021-98712-3>

25. Naser, M., Al-Ghatam, R., Darwish, A., Alqahtani, M., Alahmadi, H., Mohamed, K., Hasan, N. and Perez, N., 2021. Risk factors, predictions, and progression of acute kidney injury in hospitalized COVID-19 patients: An observational retrospective cohort study. *PLOS ONE*, 16(9), p.e0257253.
<https://doi.org/10.1371/journal.pone.0257253>
26. Alqahtani, M., Mallah, S.I., Stevenson, N. et al. Vaccine trials during a pandemic: potential approaches to ethical dilemmas. *Trials* 22, 628 (2021).
<https://doi.org/10.1186/s13063-021-05597-8>
27. Axfors, C., Janiaud, P., Schmitt, A.M. et al. Association between convalescent plasma treatment and mortality in COVID-19: a collaborative systematic review and meta-analysis of randomized clinical trials. *BMC Infect Dis* 21, 1170 (2021).
<https://doi.org/10.1186/s12879-021-06829-7>

Published in 2022: (3 Research Article)

28. Alqahtani, M., Abdulrahman, A., Mustafa, F., Alawadhi, A., Alalawi, B., & Mallah, S. (2022). Evaluation of Rapid Antigen Tests Using Nasal Samples to Diagnose SARS-CoV-2 in Symptomatic Patients. *Frontiers In Public Health*, 9.
<https://doi.org/10.3389/fpubh.2021.728969>
29. Chachar, T., Yousuf, N., Sulaibikh, L., Abdulqader, F., & Alqahtani, M. (2021). First Report of Acute Myocarditis Post-Pfizer-BioNTech COVID-19 Vaccination in the Kingdom of Bahrain. *Cureus*. <https://doi.org/10.7759/cureus.20313>
30. Kumar N, Quadri S, AlAwadhi AI and AlQahtani M (2022) COVID-19 Recovery Patterns Across Alpha (B.1.1.7) and Delta (B.1.617.2) Variants of SARS-CoV-2. *Front. Immunol.* 13:812606. <https://doi.org/10.3389/fimmu.2022.812606>



Pre-prints

1. Abdulrahman A, AlAwadhi AI, Almajthoob M, AlQahtani M. **The implications of religious event and holidays on the transmission of SARS-CoV2: the impact of behavioral changes on transmission** . medRxiv. 2020
<https://www.medrxiv.org/content/10.1101/2020.10.17.20214056v1>
2. Abdulrahman, A., Albastaki, A., AlAwadhi, A.I., AlWazzan, A. and AlQahtani, M., 2020. **Diagnostic and monitoring utilities of saliva for SARS-CoV-2**. *medRxiv* ;
<https://www.medrxiv.org/content/10.1101/2020.12.07.20244681v1>
3. Manaf AlQahtani, Sujoy Bhattacharyya, Abdulla Alawadi, Hamad Al



Mahmeed, Jaleela Al Sayed, Jessica Justman, Wafaa M. El-Sadr, Jack Hidary, Siddhartha Mukherjee .**Morbidity and mortality from COVID-19 post-vaccination breakthrough infections in association with vaccines and the emergence of variants in Bahrain** <https://doi.org/10.21203/rs.3.rs-828021/v1>



Submitted for Publication

1. Treatment of covid-19 with Favipiravir versus hydroxychloroquine: a randomized comparator trial – **Nature Scientific reports ACCEPTED**
2. Morbidity and mortality from COVID-19 post-vaccination breakthrough infections in association with vaccines and the emergence of variants in Bahrain - **Nature Infectious Disease**
3. Epidemiological Assessment Of Sars-Cov-2 Reinfection In The Kingdom Of Bahrain - **Nature Scientific Reports**
4. Comparing the safety and efficacy of homologous and heterologous COVID-19 prime-boost vaccination in Bahrain - **Lancet Infectious Diseases**
5. Safety and immunogenicity of COVID-19 BBIBP-CorV vaccine in Children 3-11 years – **Vaccine Journal**



Ongoing Research projects

1. Comparing the safety and efficacy of homologous (Sputnik V) and heterologous (BNT162b2) COVID-19 prime-boost vaccination in Bahrain
2. Acceptance of COVID-19 vaccination among Health Care Workers in Bahrain: A multicenter cross-sectional study
3. The Path to Reopening Schools: The Use of COVID-19 Antigen Tests in Schools in Bahrain
4. The use of the Panbio COVID-19 Antigen for Mass Screening in Bahrain