

Eastern Mediterranean Health Genomics & Biotechnology Network



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EMGEN newsletter (Special Issue-145 on COVID-19 and Monkeypox)

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Novel Coronavirus (COVID-19) Research and EMRO countries

Row	Article	link	Country
1	Benefit-risk analysis of maintaining essential reproductive, maternal, newborn, and child health (RMNCH) services against risk of COVID-19 infection	https://pubmed.ncbi.nlm.nih.gov/36962214	Afghanistan, Egypt, Iraq, Morocco, Pakistan, Somalia, Sudan

2	Knowledge, attitudes and practices of university students toward COVID-19 in Southern region, Afghanistan: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36941657	Afghanistan
3	Parasternal intercostal thickening at hospital admission: a promising indicator for mechanical ventilation risk in subjects with severe COVID-19	https://pubmed.ncbi.nlm.nih.gov/36961635	Egypt
4	SARS CoV-2 genetic jump to a new SARS CoV-3 pandemic: let's be prepared	https://pubmed.ncbi.nlm.nih.gov/36958637	Egypt
5	Clinical and imaging evaluation of COVID-19-related olfactory dysfunction	https://pubmed.ncbi.nlm.nih.gov/36945746	Egypt
6	Delayed seropositivity is associated with lower levels of SARS-CoV-2 antibody levels in patients with mild to moderate COVID-19	https://pubmed.ncbi.nlm.nih.gov/36941519	Egypt
7	Acute kidney injury in coronavirus disease-19 related pneumonia in the intensive care unit: a retrospective multicenter study, Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36936197	Egypt, Saudi Arabia
8	Green adherent degradation kinetics study of Nirmatrelvir, an oral anti-COVID-19: characterization of degradation products using LC-MS with <i>in silico</i> toxicity profile	https://pubmed.ncbi.nlm.nih.gov/36932440	Egypt
9	COVID-19 outcomes in patients with and without autoimmune rheumatic diseases: a multicenter comparative study	https://pubmed.ncbi.nlm.nih.gov/36929695	Egypt

10	Real-world practice of the Egyptian Kelleni's protocol amid changing tropism of SARS-CoV-2 omicron BA.5.2.1.7, XBB 1.5 and CH.1.1 subvariants: a multi-purpose protocol	https://pubmed.ncbi.nlm.nih.gov/36928633	Egypt
11	COVID-19-induced transaminitis and hyperbilirubinemia: presentation and outcomes	https://pubmed.ncbi.nlm.nih.gov/36926664	Egypt
12	Flare of the silent pandemic in the era of the COVID-19 pandemic: obstacles and opportunities	https://pubmed.ncbi.nlm.nih.gov/36926133	Egypt
13	COVID-19 vaccine hesitancy among parents in low- and middle-income countries: a meta-analysis	https://pubmed.ncbi.nlm.nih.gov/36923043	Egypt
14	Insights of different analytical approaches for estimation of budesonide as COVID-19 replication inhibitor in its novel combinations: green assessment with AGREE and GAPI approaches	https://pubmed.ncbi.nlm.nih.gov/36918985	Egypt
15	Comparison and monitoring of antibody response in convalescent and healthy vaccinated individuals against RBD and PCS of SARS-CoV-2 spike protein	https://pubmed.ncbi.nlm.nih.gov/36961201	Iran
16	TYK2 single-nucleotide variants associated with the severity of COVID-19 disease	https://pubmed.ncbi.nlm.nih.gov/36959416	Iran
17	Multiple sclerosis and COVID-19: a retrospective study in Iran	https://pubmed.ncbi.nlm.nih.gov/36952532	Iran

18	Coincidence of <i>Candida</i> Endophthalmitis, and <i>Aspergillus</i> and <i>Pneumocystis jirovecii</i> pneumonia in a COVID-19 patient: case report	https://pubmed.ncbi.nlm.nih.gov/36952481	Iran
19	Synthesis, molecular docking and dynamics studies of pyridazino[4,5- <i>b</i>]quinoxalin-1(2 <i>H</i>)-ones as targeting main protease of COVID-19	https://pubmed.ncbi.nlm.nih.gov/36951505	Iran
20	Depression, anxiety, stress, and PTSD symptoms during the first and second COVID-19 waves: a comparison of elderly, middle-aged, and young people in Iran	https://pubmed.ncbi.nlm.nih.gov/36949444	Iran
21	Biomarkers of endothelial dysfunction are associated with poor outcome in COVID-19 patients: a systematic review and meta-analysis	https://pubmed.ncbi.nlm.nih.gov/36943015	Iran
22	Comparison of maternal and fetal health outcomes in the pandemic period of COVID-19 with the same last year duration in health centers of second largest city of Iran: a population-based cohort study	https://pubmed.ncbi.nlm.nih.gov/36942237	Iran
23	Is there any link between hyperphosphatemia, hypoalbuminemia, and hypocalcemia with hospital outcomes in COVID-19 patients?	https://pubmed.ncbi.nlm.nih.gov/36942037	Iran
24	Density estimation of SARS-CoV-2 spike proteins using super pixels segmentation technique	https://pubmed.ncbi.nlm.nih.gov/36960080	Iraq

25	Evaluation of Jordan's citizens' awareness of the emerging Coronavirus (COVID-19) disease: a mixed analysis of the symptoms, transmission, and preventive measures	https://pubmed.ncbi.nlm.nih.gov/36962653	Jordan
26	Factors associated with antenatal depression in the Kingdom of Jordan during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36962288	Jordan
27	Postmortem lung and heart examination of COVID-19 patients in a case series from Jordan	https://pubmed.ncbi.nlm.nih.gov/36950812	Jordan
28	Predictors of social response to COVID-19 among health care workers caring for individuals with confirmed COVID-19 in Jordan	https://pubmed.ncbi.nlm.nih.gov/36936049	Jordan
29	COVID-19 vaccinations: medical, ethical and legal aspects	https://pubmed.ncbi.nlm.nih.gov/36937616	Jordan
30	Short-term side effects of mRNA-based COVID-19 vaccine among Jordanian population; a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36919138	Jordan
31	COVID-19 chest X-ray image analysis by threshold-based segmentation	https://pubmed.ncbi.nlm.nih.gov/36919086	Jordan
32	Panuveitis following mRNA-based COVID-19 vaccine	https://pubmed.ncbi.nlm.nih.gov/36934019	Morocco
33	Type I and III interferons are good markers to monitor COVID-19 pathophysiology	https://pubmed.ncbi.nlm.nih.gov/36924609	Morocco

34	Using rapid antigen testing for early, safe return-to-work for healthcare personnel after SARS-CoV-2 infection in a healthcare system in Pakistan: A retrospective cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36963102	Pakistan
35	Impact of school closures and reopening on COVID-19 caseload in 6 cities of Pakistan: an interrupted time series analysis	https://pubmed.ncbi.nlm.nih.gov/36962567	Pakistan
36	School closures help reduce the spread of COVID-19: a pre- and post-intervention analysis in Pakistan	https://pubmed.ncbi.nlm.nih.gov/36962220	Pakistan
37	Liver and renal injury with Remdesivir treatment in SARS-CoV-2 patients	https://pubmed.ncbi.nlm.nih.gov/36950448	Pakistan
38	Complete Kawasaki disease after COVID-19 infection in an infant	https://pubmed.ncbi.nlm.nih.gov/36950447	Pakistan
39	COVID-19 vaccine acceptance and its drivers among Pakistani population	https://pubmed.ncbi.nlm.nih.gov/36950442	Pakistan
40	Breastfeeding practices in nursing mothers during COVID-19 pandemic: dual center study in Karachi, Pakistan	https://pubmed.ncbi.nlm.nih.gov/36950424	Pakistan
41	Point of care testing for SARS-COV-2 antibodies before doing endoscopy	https://pubmed.ncbi.nlm.nih.gov/36950411	Pakistan

42	Exploiting the co-crystal ligands shape, features and structure-based approaches for identification of SARS-CoV-2 Mpro inhibitors	https://pubmed.ncbi.nlm.nih.gov/36946192	Pakistan
43	How COVID-19 literacy influences fear, protective behaviour, and conspiracy beliefs among university students in Pakistan?	https://pubmed.ncbi.nlm.nih.gov/36945708	Pakistan
44	The pros and cons of use of handheld Electronic devices during ward rounds and the impact of the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36960386	Qatar
45	Telephone versus face-to-face consultation on smoking cessation at primary health care centers in Qatar during COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36937076	Qatar
46	Reversal of the unique Q493R mutation increases the affinity of Omicron S1-RBD for ACE2	https://pubmed.ncbi.nlm.nih.gov/36936816	Qatar
47	Sickness absenteeism among primary health care workers in Qatar before and during the COVID-19 pandemic	https://pubmed.ncbi.nlm.nih.gov/36927778	Qatar
48	Assessment of proinflammatory cytokines among patients with Middle East respiratory syndrome coronavirus infection	https://pubmed.ncbi.nlm.nih.gov/36961439	Saudi Arabia
49	Diagnostic efficacy of RealStar SARS-CoV-2 reverse transcription-polymerase chain reaction (RT-PCR) in comparison to GeneXpert system for the detection of COVID-19	https://pubmed.ncbi.nlm.nih.gov/36949993	Saudi Arabia

50	Acceptability and effectiveness of COVID-19 contact tracing applications: a case study in Saudi Arabia of the Tawakkalna application	https://pubmed.ncbi.nlm.nih.gov/36942186	Saudi Arabia
51	Perception of Saudi population about COVID-19: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36942036	Saudi Arabia
52	The impact of data management on the achievable dose and efficiency of mammography and radiography during the COVID-19 era: a facility-based cohort study	https://pubmed.ncbi.nlm.nih.gov/36941927	Saudi Arabia
53	Behavioral changes in patients with diabetes during the COVID-19 pandemic in Saudi Arabia: a cross-sectional study	https://pubmed.ncbi.nlm.nih.gov/36938276	Saudi Arabia
54	Impact of COVID-19 on patients with diabetes standard of care in the Jazan Region, Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36936887	Saudi Arabia
55	COVID-19 vaccination and menstrual disorders among women: findings from a meta-analysis study	https://pubmed.ncbi.nlm.nih.gov/36934644	Saudi Arabia
56	Analysis of the nasopharyngeal microbiome and respiratory pathogens in COVID-19 patients from Saudi Arabia	https://pubmed.ncbi.nlm.nih.gov/36934642	Saudi Arabia
57	COVID-19: establishing, implementing and assessment safety strategy, descriptive interventional study	https://pubmed.ncbi.nlm.nih.gov/36930592	Saudi Arabia, Sudan

58	Evaluating COVID-19 decision-making in a humanitarian setting: the case study of Somalia	https://pubmed.ncbi.nlm.nih.gov/36962363	Somalia
59	Two-test algorithms for infectious disease diagnosis: implications for COVID-19	https://pubmed.ncbi.nlm.nih.gov/36962160	Somalia
60	Impact of comorbidities on hospitalised Syrian patients with COVID-19: a retrospective study	https://pubmed.ncbi.nlm.nih.gov/36940947	Syria
61	Burnout syndrome among health care workers during the COVID-19 pandemic. a cross sectional study in Monastir, Tunisia	https://pubmed.ncbi.nlm.nih.gov/36952480	Tunisia
62	Resource utilization and preparedness within the COVID-19 pandemic in Tunisian medical intensive care units: a nationwide retrospective multicenter observational study	https://pubmed.ncbi.nlm.nih.gov/36947950	Tunisia
63	Auer-rod like inclusions in mature neutrophils of an early T cell precursor lymphoblastic leukaemia patient after SARS-CoV-2 infection	https://pubmed.ncbi.nlm.nih.gov/36942612	Tunisia
64	Multi-criteria decision analysis to prioritize people for COVID-19 vaccination when vaccines are in short supply	https://pubmed.ncbi.nlm.nih.gov/36925795	Tunisia
65	High seroprevalence of antibodies against SARS-CoV-2 among healthcare workers 8 months after the first wave in Aden, Yemen	https://pubmed.ncbi.nlm.nih.gov/36962647	Yemen, United Arab Emirates

Monkeypox Articles

1	Death-associated with human monkeypox outbreak 2022: the current perspectives	https://pubmed.ncbi.nlm.nih.gov/36928291	Iran
2	Monkeypox disease a concern worldwide	https://pubmed.ncbi.nlm.nih.gov/36932802	Pakistan
3	Monkeypox; another global health emergency looming in the horizon	https://pubmed.ncbi.nlm.nih.gov/36932798	Pakistan
4	Potentially devastating monkeypox outbreak amidst COVID-19 pandemic in Pakistan	https://pubmed.ncbi.nlm.nih.gov/36923751	Pakistan
5	The expected economic burden on the healthcare system because of quarantining patients with monkeypox virus	https://pubmed.ncbi.nlm.nih.gov/36940962	Saudi Arabia

Websites to get Coronavirus updates/reports



Predicting vaccine effectiveness against severe COVID-19 over time and against variants: a meta-analysis

Intranasal trimeric sheep body inhibits SARS-CoV-2 including recent immunoevasive Omicron subvariants

Maternal third dose of BNT162b2 mRNA vaccine and risk of infant COVID-19 hospitalization

Note: You may click on each of the circles to get access to data.

New Findings

[Why subvariants of the SARS-CoV-2 virus accelerated the pandemic](#)

Researchers describe why SARS-CoV-2 subvariants spread more rapidly than the original virus strain, and how an early treatment might have made people more susceptible to future infections.

[One of the coronaviruses causing common colds boosts immune response to COVID-19 in children, study finds](#)

During the pandemic, it became clear that children who contracted COVID-19 became less ill than adults. One hypothesis has been that common colds would give children immunity protecting against a severe form of the disease. Researchers are now able to show that OC43, one of the coronaviruses that cause common colds, boosts the immune response to COVID-19. The study could give rise to more tailored vaccine programmes for children and adults.

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