

Title: Increasing consumption of antibiotics during the COVID-19 pandemic:
 Implications for patient health and emerging antimicrobial resistance
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Table S1: List of studies included for final Systematic Review.

1	(Saadh et al. 2021)	Saadh, Mohamed J., Abeer M. Kharshid, Heba K. Aladailah, Shahad Abunawas, and Wael Abu Dayyih. 2021. "Antibiotic Stewardship in ICU during Covid-19." <i>Pharmacologyonline</i> , 2032–39.
2	(Mahadi 2021)	Mahadi, Ashrafur Rahaman. 2021. "Post COVID Antimicrobial Resistance Threat in Lower-and Middle-Income Countries: Bangladesh." <i>Frontiers in Public Health</i> 9.
3	(Ma, Kung, and Chen 2021)	Ma, Edmond SK, K. H. Kung, and Hong Chen. 2021. "Combating Antimicrobial Resistance during the COVID-19 Pandemic." <i>Hong Kong Medical Journal</i> 27 (6): 396.
4	(Posteraro et al. 2021)	Posteraro, Brunella, Venere Cortazzo, Flora Marzia Liotti, Giulia Menchinelli, Chiara Ippoliti, Giulia De Angelis, Marilena La Sorda, Gennaro Capalbo, Joel Vargas, and Massimo Antonelli. 2021. "Diagnosis and Treatment of Bacterial Pneumonia in Critically Ill Patients with COVID-19 Using a Multiplex PCR Assay: A Large Italian Hospital's Five-Month Experience." <i>Microbiology Spectrum</i> 9 (3): e00695-21.
5	(Kalam et al. 2021)	Kalam, Abul, Shahanaj Shano, Mohammad Asif Khan, Ariful Islam, Narelle Warren, Mohammad Mahmudul Hassan, and Mark Davis. 2021. "Understanding the Social Drivers of Antibiotic Use during COVID-19 in Bangladesh: Implications for Reduction of Antimicrobial Resistance." <i>PloS One</i> 16 (12): e0261368.
6	(Jampani and Chandy 2021)	Jampani, Mahesh, and Sujith J. Chandy. 2021. "Increased Antimicrobial Use during COVID-19: The Risk of Advancing the Threat of Antimicrobial Resistance." <i>Health Science Reports</i> 4 (4).
7	(Pierce and Stevens 2021)	Pierce, Jacob, and Michael P. Stevens. 2021. "COVID-19 and Antimicrobial Stewardship: Lessons Learned, Best Practices, and Future Implications." <i>International Journal of Infectious Diseases</i> 113: 103–8.
8	(Osman et al. 2021)	Osman, Marwan, Dalal Kasir, Issmat I. Kassem, and Monzer Hamze. 2021. "Shortage of Appropriate Diagnostics for Antimicrobial

		Resistance in Lebanese Clinical Settings: A Crisis Amplified by COVID-19 and Economic Collapse.” <i>Journal of Global Antimicrobial Resistance</i> 27: 72.
9	(Karataş et al. 2021)	Karataş, Mustafa, Melike Yaşar-Duman, Alper Tünger, Feriha Çilli, Şöhret Aydemir, and Volkan Özenci. 2021. “Secondary Bacterial Infections and Antimicrobial Resistance in COVID-19: Comparative Evaluation of Pre-Pandemic and Pandemic-Era, a Retrospective Single Center Study.” <i>Annals of Clinical Microbiology and Antimicrobials</i> 20 (1): 1–8.
10	(Al-Hadidi et al. 2021)	Al-Hadidi, Sara H., Hashim Alhussain, Hamad Abdel Hadi, Alreem Johar, Hadi M. Yassine, Asmaa A. Al Thani, and Nahla O. Eltai. 2021. “The Spectrum of Antibiotic Prescribing during COVID-19 Pandemic: A Systematic Literature Review.” <i>Microbial Drug Resistance</i> 27 (12): 1705–25.
11	(Fontana et al. 2021)	Fontana, Carla, Marco Favaro, Silvia Minelli, Maria Cristina Bossa, and Anna Altieri. 2021. “Co-Infections Observed in SARS-CoV-2 Positive Patients Using a Rapid Diagnostic Test.” <i>Scientific Reports</i> 11 (1): 1–10.
12	(Adebisi, Jimoh, et al. 2021)	Adebisi, Yusuff Adebayo, Nafisat Dasola Jimoh, Isaac Olushola Ogunkola, Theogene Uwizeyimana, Alaka Hassan Olayemi, Nelson Ashinedu Ukor, and Don Eliseo Lucero-Prisno. 2021. “The Use of Antibiotics in COVID-19 Management: A Rapid Review of National Treatment Guidelines in 10 African Countries.” <i>Tropical Medicine and Health</i> 49 (1): 1–5.
13	(Pelfrene, Botgros, and Cavaleri 2021)	Pelfrene, Eric, Radu Botgros, and Marco Cavaleri. 2021. “Antimicrobial Multidrug Resistance in the Era of COVID-19: A Forgotten Plight?” <i>Antimicrobial Resistance & Infection Control</i> 10 (1): 1–6.
14	(Z. Chen et al. 2021)	Chen, Zhongli, Jinsong Guo, Yanxue Jiang, and Ying Shao. 2021. “High Concentration and High Dose of Disinfectants and Antibiotics Used during the COVID-19 Pandemic Threaten Human Health.” <i>Environmental Sciences Europe</i> 33 (1): 1–4.
15	(Rizk et al. 2021)	Rizk, Nesrine A., Rima Moghnieh, Nisrine Haddad, Marie-Claire Rebeiz, Rony M. Zeenny, Joya-Rita Hindy, Gabriella Orlando, and Souha S. Kanj. 2021. “Challenges to Antimicrobial Stewardship in the Countries of the Arab League: Concerns of Worsening Resistance during the COVID-19 Pandemic and Proposed Solutions.” <i>Antibiotics</i> 10 (11): 1320.
16	(Tomczyk et al. 2021)	Tomczyk, Sara, Angelina Taylor, Allison Brown, Marlieke EA De Kraker, Aiman El-Saed, Majid Alshamrani, Rene S. Hendriksen, Megan Jacob, Sonja Löfmark, and Olga Perovic. 2021. “Impact of the COVID-19 Pandemic on the Surveillance, Prevention and Control of Antimicrobial Resistance: A Global Survey.” <i>Journal of Antimicrobial Chemotherapy</i> 76 (11): 3045–58.
17	(Hirabayashi et al. 2021)	Hirabayashi, Aki, Toshiki Kajihara, Koji Yahara, Keigo Shibayama, and Motoyuki Sugai. 2021. “Impact of the COVID-19 Pandemic on

		the Surveillance of Antimicrobial Resistance.” <i>Journal of Hospital Infection</i> 117: 147–56.
18	(Segala et al. 2021)	Segala, Francesco Vladimiro, Davide Fiore Bavaro, Francesco Di Gennaro, Federica Salvati, Claudia Marotta, Annalisa Saracino, Rita Murri, and Massimo Fantoni. 2021. “Impact of SARS-CoV-2 Epidemic on Antimicrobial Resistance: A Literature Review.” <i>Viruses</i> 13 (11): 2110.
19	(Kanungo 2021)	Kanungo, Reba. 2021. “Antimicrobial Resistance and the COVID-19 Pandemic: A Double Threat.” <i>Indian Journal of Medical Microbiology</i> 39 (4): 401.
20	(Johnson 2021)	Johnson, Tess. 2021. “A Trade-off: Antimicrobial Resistance and COVID-19.” <i>Bioethics</i> 35 (9): 947–55.
21	(Despotovic et al. 2021)	Despotovic, Aleksa, Branko Milosevic, Andja Cirkovic, Ankica Vujovic, Ksenija Cucanic, Teodora Cucanic, and Goran Stevanovic. 2021. “The Impact of Covid-19 on the Profile of Hospital-Acquired Infections in Adult Intensive Care Units.” <i>Antibiotics</i> 10 (10): 1146.
22	(Lobie et al. 2021)	Lobie, Tekle Airgecho, Aklilu Abrham Roba, James Alexander Booth, Knut Ivan Kristiansen, Abraham Aseffa, Kirsten Skarstad, and Magnar Bjørås. 2021. “Antimicrobial Resistance: A Challenge Awaiting the Post-COVID-19 Era.” <i>International Journal of Infectious Diseases</i> 111 (October): 322–25. https://doi.org/10.1016/j.ijid.2021.09.003 .
23	(Schouten et al. 2021)	Schouten, Jeroen, Jan De Waele, Christian Lanckohr, Despoina Koulenti, Nisrine Haddad, Nesrine Rizk, Fredrik Sjövall, and Souha S. Kanj. 2021. “Antimicrobial Stewardship in the ICU in COVID-19 Times: The Known Unknowns.” <i>International Journal of Antimicrobial Agents</i> 58 (4): 106409. https://doi.org/10.1016/j.ijantimicag.2021.106409 .
24	(Ruiz-Garbajosa and Cantón 2021)	Ruiz-Garbajosa, P., and R. Cantón. 2021. “COVID-19: Impact on Prescribing and Antimicrobial Resistance.” <i>Revista Espanola de Quimioterapia : Publicacion Oficial de La Sociedad Espanola de Quimioterapia</i> 34 Suppl 1 (Suppl1): 63–68. https://doi.org/10.37201/req/s01.19.2021 .
25	(Toro-Alzate, Hofstra, and de Vries 2021)	Toro-Alzate, Luisa, Karlijn Hofstra, and Daniel H. de Vries. 2021. “The Pandemic beyond the Pandemic: A Scoping Review on the Social Relationships between COVID-19 and Antimicrobial Resistance.” <i>International Journal of Environmental Research and Public Health</i> 18 (16). https://doi.org/10.3390/ijerph18168766 .

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27	(Haqqi et al. 2021)	Haqqi, Aleena, Usman Ayub Awan, Haroon Ahmed, and Muhammad Sohail Afzal. 2021. "Antimicrobial Resistance vs COVID-19: A Bigger Challenge in the Post-Pandemic Era!" <i>Journal of the Formosan Medical Association = Taiwan Yi Zhi</i> 120 (7): 1537–38. https://doi.org/10.1016/j.jfma.2021.03.003 .
28	(Ansari et al. 2021)	Ansari, Shamshul, John P. Hays, Andrew Kemp, Raymond Okechukwu, Jayaseelan Murugaiyan, Mutshiene Deogratias Ekwanzala, Maria Josefina Ruiz Alvarez, Maneesh Paul-Satyaseela, Chidozie Declan Iwu, and Clara Balleste-Delpierre. 2021. "The Potential Impact of the COVID-19 Pandemic on Global Antimicrobial and Biocide Resistance: An AMR Insights Global Perspective." <i>JAC-Antimicrobial Resistance</i> 3 (2): dlab038.
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31	(Parveen, Yeasmin, and Molla 2020)	Parveen, Monira, Mahmuda Yeasmin, and Md. Maruf Ahmed Molla. 2020. "Antimicrobial Resistance, Evidences on Irrational Anti-Microbial Prescribing and Consumption during COVID-19 Pandemic and Possible Mitigation Strategies: A Bangladesh Perspective." <i>MedRxiv</i> . https://doi.org/10.1101/2020.10.09.20210377 .
32	(Lucien et al. 2021)	Lucien, Mentor Ali Ber, Michael F. Canarie, Paul E. Kilgore, Gladzdin Jean-Denis, Natael Fénélon, Manise Pierre, Mauricio Cerpa, et al. 2021. "Antibiotics and Antimicrobial Resistance in the COVID-19 Era: Perspective from Resource-Limited Settings." <i>International Journal of Infectious Diseases</i> 104 (March): 250–54. https://doi.org/10.1016/j.ijid.2020.12.087 .
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		<p>“Antimicrobial Resistance and COVID-19: Intersections and Implications.” Edited by Vaughn S Cooper and George H Perry. <i>ELife</i> 10 (February): e64139. https://doi.org/10.7554/eLife.64139.</p>
34	(Ukuhor 2020)	<p>Ukuhor, Hyacinth O. 2020. “The Interrelationships between Antimicrobial Resistance, COVID-19, Past, and Future Pandemics.” <i>Journal of Infection and Public Health</i>.</p>
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36	(Yam 2020)	<p>Yam, Esabelle Lo Yan. 2020. “COVID-19 Will Further Exacerbate Global Antimicrobial Resistance.” <i>Journal of Travel Medicine</i> 27 (6): taaa098. https://doi.org/10.1093/jtm/taaa098.</p>
37	(Clancy and Nguyen 2020)	<p>Clancy, Cornelius J, and M Hong Nguyen. 2020. “Coronavirus Disease 2019, Superinfections, and Antimicrobial Development: What Can We Expect?” <i>Clinical Infectious Diseases</i> 71 (10): 2736–43. https://doi.org/10.1093/cid/ciaa524.</p>
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