

Emerging Evidence Search Request

Please note: Our “Emerging Evidence” feature is based on the existing literature at the time the question is asked to provide the most informed answers possible to questions about COVID-19, and the science continues to evolve. As with any research, studies need to be replicated and there needs to be a strong body of evidence before any absolute conclusions can be made.

Questions about UHN policy or practice are best directed to the appropriate department (e.g. IPAC, Occupational Health).

Question:

How long is a person contagious after they contract Covid? What is the best evidence for determining people are no longer infectious?

Additional Results from an Updated Search: August 14, 2020

1.

Associations of clinical characteristics and treatment regimens with the duration of viral RNA shedding in patients with COVID-19.

Chen X; Zhu B; Hong W; Zeng J; He X; Chen J; Zheng H; Qiu S; Deng Y; Chan JCN; Wang J; Zhang Y. International Journal of Infectious Diseases. 98:252-260, 2020 Jun 30.

[Journal Article]

UI: 32619760

Authors Full Name

Chen, Xudan; Zhu, Baoyi; Hong, Wenxin; Zeng, Jianwen; He, Xi; Chen, Jingfeng; Zheng, Haipeng; Qiu, Shuang; Deng, Ying; Chan, Juliana C N; Wang, Jian; Zhang, Yuying.

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2.

Clinical predictors and timing of cessation of viral RNA shedding in patients with COVID-19.

Corsini Campioli C; Cano Cevallos E; Assi M; Patel R; Binnicker MJ; O'Horo JC.
Journal of Clinical Virology. 130:104577, 2020 Aug 05.

[Journal Article]

UI: 32777762

Authors Full Name

Corsini Campioli, Cristina; Cano Cevallos, Edison; Assi, Mariam; Patel, Robin; Binnicker, Matthew J;
O'Horo, John C.

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3.

Author Correction: Temporal dynamics in viral shedding and transmissibility of COVID-19.

He X; Lau EHY; Wu P; Deng X; Wang J; Hao X; Lau YC; Wong JY; Guan Y; Tan X; Mo X; Chen Y; Liao B; Chen W; Hu F; Zhang Q; Zhong M; Wu Y; Zhao L; Zhang F; Cowling BJ; Li F; Leung GM.

Nature Medicine. 2020 Aug 07.

[Published Erratum]

UI: 32770170

Title Comment

[Erratum for: Nat Med. 2020 May;26(5):672-675; PMID: 32296168

[\[https://www.ncbi.nlm.nih.gov/pubmed/32296168\]\]](https://www.ncbi.nlm.nih.gov/pubmed/32296168)

Authors Full Name

He, Xi; Lau, Eric H Y; Wu, Peng; Deng, Xilong; Wang, Jian; Hao, Xinxin; Lau, Yiu Chung; Wong, Jessica Y; Guan, Yujuan; Tan, Xinghua; Mo, Xiaoneng; Chen, Yanqing; Liao, Baolin; Chen, Weilie; Hu, Fengyu; Zhang, Qing; Zhong, Mingqiu; Wu, Yanrong; Zhao, Lingzhai; Zhang, Fuchun; Cowling, Benjamin J; Li, Fang; Leung, Gabriel M.

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4.

Virus shedding dynamics in asymptomatic and mildly symptomatic patients infected with SARS-CoV-2.
Li W; Su YY; Zhi SS; Huang J; Zhuang CL; Bai WZ; Wan Y; Meng XR; Zhang L; Zhou YB; Luo YY; Ge SX; Chen YK; Ma Y.

Clinical Microbiology & Infection. 2020 Jul 09.

[Journal Article]

UI: 32653662

Authors Full Name

Li, W; Su, Y-Y; Zhi, S-S; Huang, J; Zhuang, C-L; Bai, W-Z; Wan, Y; Meng, X-R; Zhang, L; Zhou, Y-B; Luo, Y-Y; Ge, S-X; Chen, Y-K; Ma, Y.

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5.

Absent immune response to SARS-CoV-2 in a 3-month recurrence of coronavirus disease 2019 (COVID-19) case.

Gao G; Zhu Z; Fan L; Ye S; Huang Z; Shi Q; Sun Y; Song Q.

Infection. 2020 Jul 28.

[Journal Article]

UI: 32725596

Authors Full Name

Gao, Guosheng; Zhu, Zhe; Fan, Lingyan; Ye, Shuyuan; Huang, Zuoan; Shi, Qiaoyun; Sun, Yedan; Song, Qifa.

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6.

Risk factors for the COVID-19 severity and its correlation with viral shedding: a retrospective cohort study.

Zheng X; Chen J; Deng L; Fang Z; Chen G; Ye D; Xia J; Hong Z.

Journal of Medical Virology. 2020 Jul 29.

[Journal Article]

UI: 32725915

Authors Full Name

Zheng, Xinchun; Chen, Jiehua; Deng, Lisi; Fang, Zhaoxiong; Chen, Gongqi; Ye, Di; Xia, Jinyu; Hong, Zhongsi.

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7.

Duration of SARS-CoV-2 RNA shedding and factors associated with prolonged viral shedding in patients with COVID-19.

Li TZ; Cao ZH; Chen Y; Cai MT; Zhang LY; Xu H; Zhang JY; Ma CH; Liu Y; Gao LJ; Duan ZH; Mou DL; Liang LC.

Journal of Medical Virology. 2020 Jul 09.

[Journal Article]

UI: 32644223

Authors Full Name

Li, Tong-Zeng; Cao, Zhen-Huan; Chen, Yu; Cai, Miao-Tian; Zhang, Long-Yu; Xu, Hui; Zhang, Jia-Ying; Ma, Chun-Hua; Liu, Yang; Gao, Li-Juan; Duan, Zhong-Hui; Mou, Dan-Lei; Liang, Lian-Chun.

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8.

Kinetics of viral load and antibody response in relation to COVID-19 severity.

Wang Y; Zhang L; Sang L; Ye F; Ruan S; Zhong B; Song T; Alshukairi AN; Chen R; Zhang Z; Gan M; Zhu A; Huang Y; Luo L; Mok CK; Al Gethamy MM; Tan H; Li Z; Huang X; Li F; Sun J; Zhang Y; Wen L; Li Y; Chen Z; Zhuang Z; Zhuo J; Chen C; Kuang L; Wang J; Lv H; Jiang Y; Li M; Lin Y; Deng Y; Tang L; Liang J; Huang J; Perlman S; Zhong N; Zhao J; Malik Peiris JS; Li Y; Zhao J.

Journal of Clinical Investigation. 2020 Jul 07.

[Journal Article]

UI: 32634129

Authors Full Name

Wang, Yanqun; Zhang, Lu; Sang, Ling; Ye, Feng; Ruan, Shicong; Zhong, Bei; Song, Tie; Alshukairi, Abeer N; Chen, Rongchang; Zhang, Zhaoyong; Gan, Mian; Zhu, Airu; Huang, Yongbo; Luo, Ling; Mok, Chris Kp; Al Gethamy, Manal M; Tan, Haitao; Li, Zhengtu; Huang, Xiaofang; Li, Fang; Sun, Jing; Zhang, Yanjun; Wen, Liyan; Li, Yuming; Chen, Zhao; Zhuang, Zhen; Zhuo, Jianfen; Chen, Chunke; Kuang, Lijun; Wang, Junxiang; Lv, Huibin; Jiang, Yongliang; Li, Min; Lin, Yimin; Deng, Ying; Tang, Lan; Liang, Jieling; Huang, Jicheng; Perlman, Stanley; Zhong, Nanshan; Zhao, Jingxian; Malik Peiris, J S; Li, Yimin; Zhao, Jincun.

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9.

Duration of Respiratory and Gastrointestinal Viral Shedding in Children With SARS-CoV-2: A Systematic Review and Synthesis of Data.

Xu CLH; Raval M; Schnall JA; Kwong JC; Holmes NE.

Pediatric Infectious Disease Journal. 2020 Jun 30.

Library staff make every effort to provide accurate and complete database search results. However, we assume no liability for information retrieved, its interpretation, applications or omissions.

[Journal Article]

UI: 32618932

Authors Full Name

Xu, Cecilia L H; Raval, Manjri; Schnall, Jesse A; Kwong, Jason C; Holmes, Natasha E.

Link to the Ovid Full Text or citation:

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10.

Associations of viral ribonucleic acid (RNA) shedding patterns with clinical illness and immune responses in Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) infection.

Lee PH; Tay WC; Sutjipto S; Fong SW; Ong SWX; Wei WE; Chan YH; Ling LM; Young BE; Toh MPH; Renia L; Ng LF; Leo YS; Lye DC; Lee TH.

Clinical & Translational Immunology. 9(7):e1160, 2020.

[Journal Article]

UI: 32742654

Authors Full Name

Lee, Pei Hua; Tay, Woo Chiao; Sutjipto, Stephanie; Fong, Siew-Wai; Ong, Sean Wei Xiang; Wei, Wycliff Enli; Chan, Yi-Hao; Ling, Li Min; Young, Barnaby E; Toh, Matthias Paul Hs; Renia, Laurent; Ng, Lisa Fp; Leo, Yee-Sin; Lye, David C; Lee, Tau Hong.

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11.

63 days detection of SARS-CoV-2 RNA from a recovered patient in Southern Italy: A Case Report.

Baldacci S; Giannico OV; Giorgino A; Buccoliero GB; Desiante F; Fragnelli GR; Rizzi R; Loconsole D; Centrone F; Chironna M; Conversano M.

Annali di Igiene. 32(5):590-592, 2020 Sep-Oct.

[Case Reports. Letter]

UI: 32744589

Authors Full Name

Baldacci, S; Giannico, O V; Giorgino, A; Buccoliero, G B; Desiante, F; Fragnelli, G R; Rizzi, R; Loconsole, D; Centrone, F; Chironna, M; Conversano, M.

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12.

COVID-19 infectivity profile correction.

Ashcroft P; Huisman JS; Lehtinen S; Bouman JA; Althaus CL; Regoes RR; Bonhoeffer S.

Swiss Medical Weekly. 150:w20336, 2020 07 27.

[Journal Article. Comment]

UI: 32757177

Title Comment

[Comment on: Nat Med. 2020 May;26(5):672-675; PMID: 32296168

[\[https://www.ncbi.nlm.nih.gov/pubmed/32296168\]\]](https://www.ncbi.nlm.nih.gov/pubmed/32296168)

Authors Full Name

Ashcroft, Peter; Huisman, Jana S; Lehtinen, Sonja; Bouman, Judith A; Althaus, Christian L; Regoes, Roland R; Bonhoeffer, Sebastian.

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Databases Searched:

Ovid MEDLINE(R) ALL <1946 to August 13, 2020>

Search history sorted by search number ascending

#	Searches	Results	Type
1	Virus Shedding/	3343	Advanced
2	((viral or virus) adj2 shed*).mp.	6398	Advanced
3	1 or 2	6398	Advanced
4	limit 3 to covid-19	244	Advanced
5	limit 4 to dt="20200703-20200814"	56	Advanced
6	limit 5 to english language	56	Advanced
7	from 6 keep 2, 5, 9, 20, 22-23, 30...	12	Advanced

Search Completed By:

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Ani Orchanian-Cheff