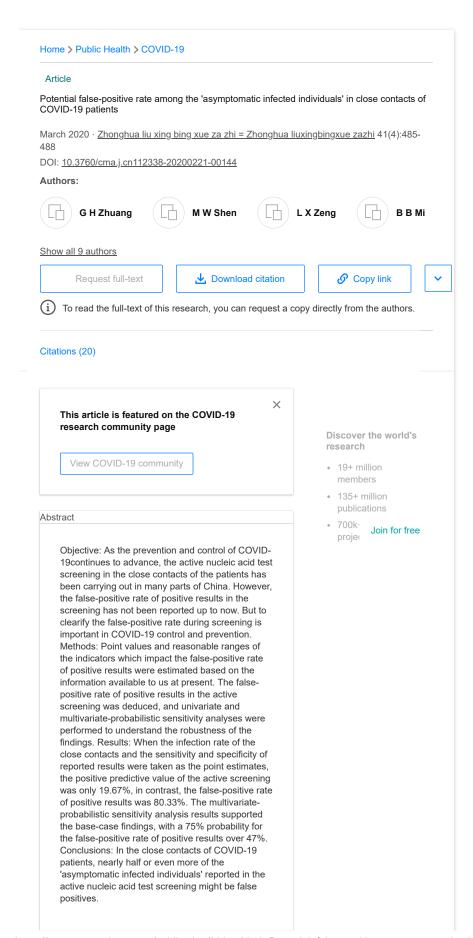
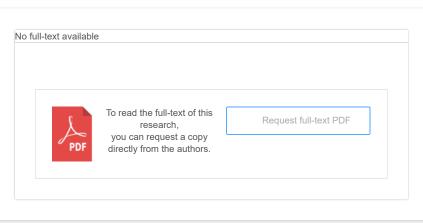
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Citations (20) References (0) ... In an initial application of this test protocol in Bavaria, Germany, 60.7% unspecific signals were detected, but could be reduced to 5% and lower using different RT-PCR systems (Konrad et al. 2020). A Chinese validation study of the SARS-CoV-2 tests used in China revealed a false-positive rate of almost 50% or higher (Zhuang et al. 2020) -however, the study was retracted for unknown reasons soon after ahead-of-print publication. In clinical practice, false negative signals can be introduced by sample contamination and cross-reactions with other nucleic acids if the primer pairs selected are not highly specific for the target nucleic acid sequence... ... We found that for plausible assumptions about v and test sensitivities, positive tests would only provide weak to moderate evidence for the hypothesis that the symptoms in a given patient are caused solely be SARS-CoV-2 unless the tests have a high specificity. Unfortunately, the latter are currently unknown and may be insufficient (Zhuang et al. 2020). ... The epistemology of the SARS-CoV-2 test Preprint Full-text available Apr 2020 🦚 Rainer J Klement · 🌑 Prasanta S Bandyopadhyay Show abstract ... In an initial application of this test protocol in Bavaria, Germany, 60.7% unspecific signals were detected, but could be reduced to 5% and lower using different RT-PCR systems (Konrad et al. 2020). A Chinese validation study of the SARS-CoV-2 tests used in China revealed a false-positive rate of almost 50% or higher (Zhuang et al. 2020) -however, the study was retracted for unknown reasons soon after ahead-of-print publication. In clinical practice, false negative signals can be introduced by sample contamination and cross-reactions with other nucleic acids if the primer pairs selected are not highly specific for the target nucleic acid ... We found that for plausible assumptions about v and test

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The epistemology of the SARS-CoV-2 test Preprint Full-text available Apr 2020 Rainer J Klement Prasanta S Bandyopadhyay View Show abstract

... The sensitivity rate is not clear, but is estimated to be around 66-80% [59]. Test validity in asymptomatic individuals who have been in close contact with symptomatic persons is even less clear; the rate of positivity could reach 50% without any evidence of symptoms or proven infection [60]

... In one study, the time period from symptom onset to initial CT scan was evaluated and the authors found that 56% of patients who presented symptoms within 2 days had normal CT images [64]. CT sensitivity seems to be high in patients with positive RT-PCR (86-97% in different case studies) [60] and lower in patients with only constitutional and nonrespiratory symptoms (about 50%) [63]. ...

COVID-19 diagnosis and management: a comprehensive

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Apr 2020 · J INTERN MED

Giuseppe Pascarella · Alessandro Strumia · Chiara Piliego · Felice Eugenio Agrò

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... In addition, strategies to test for anosmia were clinically tested according to prior work by Russell (7) and Lechien (8). 9 . Establishment of isolation facilities and a "traffic light zone concept": According to rising infection rates, one (formerly open) ward was transferred to an "isolation unit" with 12 rooms for the treatment of COVID-19positive patients with psychiatric diseases. ...

... The "green zone" was labeled as "sensitive" due to the "patients at risk" treated there (e.g., elderly patients in geriatrics), the "yellow zone" consisted of the "regular patients" and the "red zone" was formed by the isolation units described already above. tests are available as established lab-tests to confirm the infection in an individual, but also these tests have a considerably high false-positive and false-negative risk (9). Moreover, the availability of these tests was limited at the start of the pandemic, resulting in long delays between testing and information about results.

SARS-CoV-2 Risk Management in Clinical Psychiatry: A Few Considerations on How to Deal With an Unrivaled Threat

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Jun 2020

Peter M Kreuzer · M Thomas C Baghai · Rainer Rupprecht · Berthold Langguth

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... Li et al. (2020a) reported a potentially high false negative rate of RT-PCR testing for SARS-CoV-2 in the 610 hospitalized patients they studied, from whom 241 (39.5%) patients were finally confirmed with COVID-19 with at least one positive RT-PCR test result. In asymptomatic individuals who have been in close contact with symptomatic persons, the rate of positivity could reach 50% without any evidence of symptoms or proven infection (Zhuang et al., 2020). Studies that give the amount of SARS-CoV-2 RNA in clinical specimens by reporting cycle threshold (Ct) values for RT-PCR are limited. ...

Relationship of the cycle threshold values of SARS-CoV-2 polymerase chain reaction and total severity score of... Nov 2020 · INT J INFECT DIS Aysegul Karahasan Yagci · Rabia Can Sarınoğlu · Huseyin Bilgin · Nuri Çagatay Çimşit View Show abstract ... The positive rate in swabs samples varies by sample site [35][36][37][38] [39] [40] but since data are today controversial it is not possible to accurately assess sensitivity and the diagnostic impact of combining oropharyngeal and nasopharyngeal tests. However, one of the largest studies [37] reported that oropharyngeal swabs detected the SARS-CoV-2 less frequently than nasopharyngeal swabs and should not be used in place of nasopharyngeal swabs, particularly from day 8 of symptom Serological Assays for SARS-CoV-2 Infectious Disease: Benefits, Limitations and Perspectives Full-text available Apr 2020 · ISR MED ASSOC J Maria Infantino · Arianna Damiani · Francesca I i Gobbi · View ... Further, the number of individuals that tested positive for COVID-19 may be dissuasive in understanding the disease, owing to compromised positive and negative predictive values 32, 33 . Falsepositivity in COVID-19 testing 32 may be proving costly, but it can be tolerated for effective epidemic control 19 Epidemiological Determinants of Acute Respiratory Syndrome Coronavirus-2 Disease Pandemic and The Role of the Bacille... Article Full-text available Apr 2020 ■ Bhoj R Singh · ■ Richa Gandharva · ■ Karthikeyan Ravichandran · Sumedha Gandharava Show abstract ... It is well established that there are no perfect test kits. [11] [12] [13][14] There is always a possibility that the test result might be false negative (failing to detect infection among infected) or false positive (showing infection among non-infected). [15][16][17] There is no threat if some false positive cases are referred for confirmation test and kept under isolation but if we fail to cover falsenegative cases then the outcomes can be catastrophic. ... Tackling COVID-19 in Nepal: Opportunities and Challenges Article Full-text available Jun 2020 Sujan Babu Marahatta · Shishir Paudel View Show abstract ... Furthermore, the sensitivity and specificity of GGO for COVID-19 diagnoses were high (85% and 45%, respectively). Similar results were found in other studies, with a high sensitivity of CT in SARS-CoV-2-positive patients

(86-97%) [22, 32]

Acute Clinical Syndromes and Suspicion of SARS-CoV-2

Infection: The Experience of a Single Romanian Center in th... Article Full-text available Jan 2021 · MED LITH Raluca Haliga · Victorita Sorodoc · Lionte Catalina · Laurenţiu Sorodoc View Show abstract ... This result gave a possibility of false positive rate of rapid rate. A study showed that the positive predictive value of the active screening was only 19.67%, and the false-positive rate was 80.33%, with a 75% probability for the falsepositive rate [4] Family Medicine Specialist S' Opinions on COVID19 Active Screening and Surveillance Full-text available Article Jul 2020 Rawa Jaafar Kadhim Al-Ameri Show abstract ... Finally, one preprint shown in the retraction watch search was resubmitted without explanation (Daneshkhah et al. 2020). The characteristics of the remaining seventeen articles are discussed below (Pradhan et al. 2020; Yang et al. 2020; Wang et al. 2020a, b; Bae et al. 2020; Parves 2020; Chu et al. 2020; Mehra et al. 2020a, b; Karami et al. 2020; Davido et al. 2020; Nouvier et al. 2020; Gormley and Ngan 2020; Zhuang et al. 2020; Siyu et al. 2020; Zeng and Zhen 2020; Luo et al. 2020; Tofade and Daftary 2020). ... Retracted COVID-19 articles: a side-effect of the hot race to publication Preprint Jul 2020 · SCIENTOMETRICS Parisa Soltani · Romeo Patini Show abstract ... Finally, one preprint shown in the retraction watch search was resubmitted without explanation (Daneshkhah et al. 2020). The characteristics of the remaining seventeen articles are discussed below (Pradhan et al. 2020; Yang et al. 2020; Wang et al. 2020a, b; Bae et al. 2020; Parves 2020; Chu et al. 2020; Mehra et al. 2020a, b; Karami et al. 2020; Davido et al. 2020; Nouvier et al. 2020; Gormley and Ngan 2020; Zhuang et al. 2020; Siyu et al. 2020; Zeng and Zhen 2020; Luo et al. 2020; Tofade and Daftary 2020). ... Retracted COVID-19 articles: a side-effect of the hot race to publication Article Full-text available Aug 2020 Parisa Soltani . Romeo Patini View Show abstract ... While some of these tests have shown 100% specificity in independent validation studies (Nalla et al. 2020), others have been found to yield a significant percentage of falsenegative results. For example, an early validation study of

... While some of these tests have shown 100% specificity in independent validation studies (Nalla et al. 2020), others have been found to yield a significant percentage of falsenegative results. For example, an early validation study of Chinese SARS-CoV-2 RT-qPCR tests revealed a false positive rate of almost 50% or higher (Zhuang et al. 2020) however, the study was retracted for unknown reasons soon after ahead-ofprint publication. In a German inter-laboratory validation study ("Ringversuch") of many commercially available and in-house RT-qPCR tests, a total of 67 out of

983 SARS-CoV-2-negative samples containing the human coronavirus HCoV 229E were classified as "positive", yielding an average false-positive rate of 6.8% (Zeichhardt and Kammel 2020). ...

The epistemology of a positive SARS-CoV-2 test

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Sep 2020 · <u>ACTA BIOTHEOR</u>

Rainer J Klement · Prasanta S Bandyopadhyay

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... The denominator is the total number of people diagnosed with the disease and it depends on the effort deployed to test the population (that varies among countries and it is the result of different prevention strategies), and on the accuracy of the test, which has been shown to be inaccurate (from the results of a recent study [11], false positives could be at least 50%). With these premises, fatality rate cannot be reliably computed at the moment. ...

Covid 19: How Really is the Epidemiological Curve? Epidemiological Curve Growth Rate is Less than One

Article

Sep 2020

Sergey Masyagin · 🥟 Manuel Mazzara · 🌑 Giancarlo Succi · Antonio Volni

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... Li et al. (2020a) reported a potentially high false negative rate of RT-PCR testing for SARS-CoV-2 in the 610 hospitalized patients they studied, from whom 241 (39.5%) patients were finally confirmed with COVID-19 with at least one positive RT-PCR test result. In asymptomatic individuals who have been in close contact with symptomatic persons, the rate of positivity could reach 50% without any evidence of symptoms or proven infection (Zhuang et al., 2020) . Studies that give the amount of SARS-CoV-2 RNA in clinical specimens by reporting cycle threshold (Ct) values for RT-PCR are limited. ...

Relationship of the Cycle Threshold Values of SARS-CoV-2 Polymerase Chain Reaction and Total Severity Score of...

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Oct 2020 · INT J INFECT DIS

Aysegul Karahasan Yagci · Rabia Can Sarınoğlu · Huseyin Bilgin · Nuri Çagatay Çimşit

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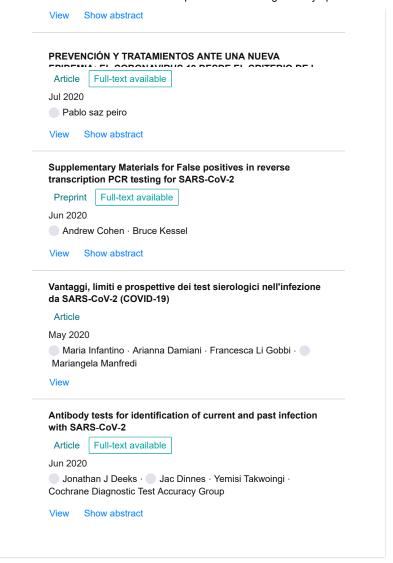
... Furthermore, researchers working on other important diseases might feel that their work also deserves OA status, similar to COVID-19-related research, as well as fair peer review and editorial handling. 7 Separately, and unrelated to the retracted Mehra et al. (2020a, b) papers, Zhuang et al. (2020) was withdrawn (i.e., retracted) due to public criticism, and the public file was deleted. Despite this, the paper and its abstract are still listed at ResearchGate, 8 but the paper is not indicated as retracted, thus inviting academics to cite this paper, which has already accrued 28 citations according to GS. ...

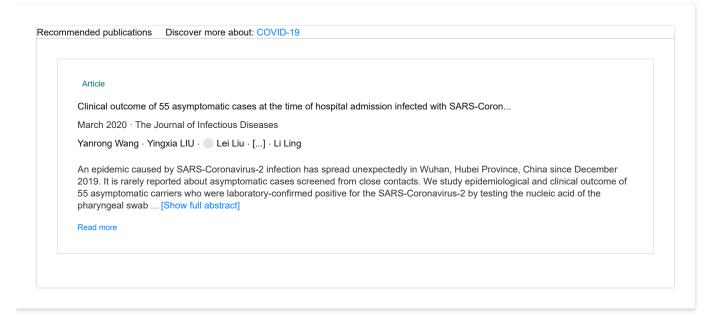
Optimizing peer review to minimize the risk of retracting COVID-19-related literature

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Nov 2020 · Med Healthc Philos

Jaime A. Teixeira da Silva · Helmar Bornemann-Cimenti · Panagiotis Tsigaris







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