

AI Publications



Session: 2021 – 2025

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1 Outbreak of Pink Eye in Pune: What is Better; Precautions or Treatment?

1.1 Summary

The article discusses the outbreak of viral conjunctivitis (pink eye) in Pune, India, with a specific focus on its impact on school-going children. The outbreak affected over 8,000 children, and more than 1,100 cases were identified. The authors emphasize the importance of preventive measures over self-medication and treatment. They note that most cases are self-limiting and do not require antibiotics or steroids, and the inappropriate use of these medications can contribute to antibiotic resistance. The Ministry of Health and Family Welfare (MoHFW) has issued guidelines for infection prevention and control, emphasizing hand hygiene and isolation to prevent the spread.

1.2 Strengths

- The article provides important information about an ongoing health issue, the outbreak of pink eye, and its impact on a specific population, school-going children in Pune.
- It emphasizes the importance of preventive measures, such as hand hygiene and isolation, in managing the outbreak and discourages self-medication, especially with antibiotics and steroids.
- The reference list includes reputable sources and studies to support the information presented in the article.

1.3 Weaknesses

- The article lacks detailed information on the outbreak's origin, viral strain, and specific measures taken by health authorities to control the spread, making it less comprehensive.
- While the article highlights the importance of following guidelines issued by the MoHFW, it does not provide a direct link to these guidelines for readers to access them easily.
- The article does not address the psychological and social impact of the outbreak on affected children and their families, which could be an important aspect to consider in a comprehensive analysis of the situation.

1.4 Reference

[Outbreak of Pink Eye in Pune: What is Better, Precautions or Treatment](#)

[1]Deepali Desai [2]Sahjid Mukhida [3]Nikunja Kumar Das [4]Shital Algule [5]Sundip Mukherjee

2 Reported conjunctivitis outbreak in Karachi, Pakistan: State of hand hygiene in a post-pandemic world

2.1 Summary

The article discusses a recent outbreak of conjunctivitis (pink eye) in Karachi, Pakistan, with a focus on the potential impact of reduced hand hygiene in a post-pandemic world. The outbreak in Karachi has seen a significant increase in cases, with symptoms such as eye redness, irritation, discomfort, and discharge being common. The authors suggest that this outbreak is likely viral and highlight environmental factors such as humid weather and poor air quality as contributing factors. They draw parallels between hand hygiene measures implemented during the COVID-19 pandemic and the decline in the transmission of viral illnesses, including conjunctivitis. However, the article also notes that hand hygiene compliance may decrease in a post-pandemic world, potentially leading to recurrent outbreaks of viral illnesses.

2.2 Strengths

- The article addresses an emerging public health issue, the outbreak of conjunctivitis, and provides insights into the potential causes and impact on a densely populated city, Karachi.
- It draws a relevant connection between the importance of hand hygiene measures, particularly during the COVID-19 pandemic, and their potential role in preventing outbreaks of viral diseases.
- The inclusion of references and citations from reputable sources supports the information presented in the article.

2.3 Weaknesses

- The article relies on subjective viewpoints and observations of local ophthalmologists, which may not provide a comprehensive understanding of the outbreak. Empirical data and scientific studies would enhance the reliability of the article's claims.
- While the article discusses the potential impact of reduced hand hygiene in a post-pandemic world, it does not provide concrete evidence or data to support this hypothesis, making it speculative.
- The article mentions the importance of general awareness campaigns and policy-making but does not delve into specific recommendations or strategies for addressing the outbreak.

2.4 Reference

Reported conjunctivitis outbreak in Karachi, Pakistan: State of hand hygiene in a post-pandemic world [1]Hashir Ali Awan (HAA) [2]Muhammad Omais Zafar (MOZ) [3]Eraj Bakhtawar (EB) [4]Huda Jaffar (HJ)

3 Analysis of the Article on 'Joy Bangla' (Conjunctivitis) Outbreak

3.1 Summary

The article discusses the alarming rise in cases of conjunctivitis, known as 'Joy Bangla,' in Kolkata, India, and reports of cases in relief camps in Delhi. The authors highlight the need for urgent attention and public awareness to combat this contagious infection. They provide information about the outbreak, causative agents, and recommended measures. The role of advanced diagnostic tools, such as Multiplex PCR, is emphasized.

3.2 Strengths

1. **Relevant Information:** The article addresses a significant public health concern, providing information about the outbreak, causative agents, and recommended measures.
2. **Clear Recommendations:** It offers clear and practical recommendations for addressing the outbreak, including the use of advanced diagnostic tools and preventive measures.
3. **Use of Multiplex PCR:** Highlighting the use of Multiplex PCR is a strong point as it emphasizes the importance of advanced diagnostic techniques.
4. **Timely and Urgent:** The article calls for immediate action, given the urgency of the situation in Kolkata and Delhi.
5. **Acknowledgment of Vulnerable Populations:** It emphasizes the need to prioritize vulnerable populations.

3.3 Weaknesses

1. **Data and Statistics:** The article lacks specific data and statistics on the number of cases, the extent of the outbreak, or the effectiveness of previous interventions.
2. **Source of Funding:** There is no information about the source of funding or potential conflicts of interest, which can impact the credibility of the information.
3. **Lack of Research Methods:** The article does not specify the research methods or data sources used to gather information on the outbreak.

4. **Ethics Approval:** The article mentions "N/A" for ethics approval, but it's unclear whether any research or data collection was involved in writing the article.
5. **No References:** Although the article cites other sources, it does not provide a list of references or citations, making it challenging to verify the information.
6. **No Data or Charts:** Visual aids such as charts, tables, or graphs could enhance the presentation of information, especially when discussing recommendations and measures.

3.4 Reference

[Analysis of the Article on 'Joy Bangla' \(Conjunctivitis\) Outbreak](#)

[1]Mobin Ibne Mokbul [[2]A.M. Khairul Islam [3] Mustari Nailah Tabassum [4]Fatema Binte Nur [5]Shabrina Sharmin

4 Analysis of the Article on Deep Sequencing of Acute Conjunctivitis in Burkina Faso

4.1 Summary

The article discusses the use of metagenomic deep sequencing to investigate the pathogens causing acute infectious conjunctivitis in Burkina Faso, West Africa. Surprisingly, the study found a diverse range of pathogens, with human adenoviruses responsible for only a small fraction of the cases. The results highlight the importance of regional surveillance and suggest that clinical signs, such as purulent discharge, may not always predict the pathogen responsible for conjunctivitis. The study emphasizes the need for local surveillance to determine definitive etiologies and guide treatment strategies.

4.2 Strengths

1. **Global Relevance:** The study addresses a global issue of infectious conjunctivitis, making its findings relevant to a broader context.
2. **Unbiased Diagnostic Tool:** The use of RNA deep sequencing as an unbiased diagnostic tool is a significant strength, allowing for the identification of various pathogens.
3. **Regional Considerations:** The article recognizes the importance of regional surveillance and emphasizes the variability of conjunctivitis etiology based on geography and climate.
4. **Public Health Implications:** The study's findings have public health implications, as they suggest that some cases of conjunctivitis may be early signs of treatable systemic infections, requiring different clinical practices.

4.3 Weaknesses

1. **Small Sample Size:** The study's small sample size is a limitation and may not fully represent the diversity of conjunctivitis cases in Burkina Faso.
2. **Lack of Traditional Microbiological Evaluations:** The absence of traditional microbiological evaluations may limit the comparison of sequencing results to conventional diagnostic methods.
3. **Variability in Sequencing Results:** The article acknowledges that sequencing results can vary depending on sample collection techniques, sequencing methods, and bioinformatics pipelines.
4. **Limited Data Sharing:** While the article mentions data availability upon request, limitations apply to variables that may compromise participant privacy or consent.

4.4 Reference

[Analysis of the Article on Deep Sequencing of Acute Conjunctivitis in Burkina Faso](#)

[1]Mamadou Bountogo [2]Ali Sié [3]Boubacar Coulibaly [4]Kevin Ruder [5]Cindi Chen [6]Lina Zhong

5 The Potency of Kitolod Leaves as Traditional Medicine for Conjunctivitis during the COVID-19 Pandemic

Summary

The article titled "The Potency of Kitolod Leaves (*Hipobroma longiflora*) as Traditional Medicine for Conjunctivitis during the COVID-19 Pandemic: A Brief Review" discusses the potential use of Kitolod leaves in treating conjunctivitis in the context of the COVID-19 pandemic. The authors emphasize the increased risk of eye disorders due to the extended use of digital screens, especially the exposure to blue light radiation. Kitolod leaves have a history of being used as a traditional remedy for conjunctivitis. The authors conducted a literature review, gathering publications from sources like PubMed and Google Scholar, focusing on studies published since 2013 and excluding animal studies. The findings suggest that Kitolod leaves contain bioactive substances, such as flavonoids, alkaloids, and saponins, which may inhibit the growth of *Staphylococcus aureus*, a primary cause of conjunctivitis. The antibacterial mechanisms include inhibiting nucleic acid synthesis, disrupting cytoplasmic membrane function, and inhibiting energy formation processes. While Kitolod leaves show potential as traditional medicine for conjunctivitis, the authors highlight the need for further research to standardize the extract and assess its clinical efficacy and safety.

Strengths

- The article addresses the relevance of using Kitolod leaves for conjunctivitis treatment during the COVID-19 pandemic.

- The authors conducted a literature review, gathering data from credible sources such as PubMed and Google Scholar.
- The inclusion of bioactive substances in Kitolod leaves and their potential antibacterial properties provides valuable insights.
- The article explains the mechanisms of antibacterial action in detail.

Weaknesses

- The article lacks a detailed discussion of the specific studies reviewed and their findings, which would provide a stronger scientific basis.
- It would benefit from a discussion of potential side effects or limitations associated with the use of Kitolod leaves as traditional medicine.
- The article does not mention ongoing or future research related to the topic.
- While the authors suggest the need for further studies, they could elaborate on the specific research required and potential challenges.

5.1 Reference

[The Potency of Kitolod Leaves as Traditional Medicine for Conjunctivitis during the COVID-19 Pandemic](#)

[1]Yuliana [2]Ni Made Ersi Dwitami Barsua [3]Made Wulan Virgioni Putri [4]I Nyoman Satya Mahayana Putra

6 Conjunctivitis: A Primer on Conjunctival Biopsy and Approach to Histopathologic Diagnosis

6.1 Summary

The article titled *Conjunctivitis: A Primer on Conjunctival Biopsy and Approach to Histopathologic Diagnosis*, authored by Curtis E. Margo and Lynn E. Harman, was published in the journal *Advances In Anatomic Pathology* in September 2023. This article provides a comprehensive overview of conjunctivitis, which is the inflammation of the mucosal covering of the anterior third of the sclera and inner eyelid.

6.2 Strengths

- **Clinical Relevance:** The article addresses a common clinical condition, conjunctivitis, and provides guidance on the use of conjunctival biopsy as a diagnostic tool in challenging cases, which is relevant to ophthalmologists and pathologists.

- **Diagnostic Insights:** It highlights the importance of biopsy when other diagnostic methods fail to establish an etiological diagnosis, particularly when neoplasia is a concern.
- **Concise and Focused:** The article offers a concise and focused review of the topic, making it accessible for busy medical professionals.

6.3 Weaknesses

- **Limited Scope:** The article may not cover the full spectrum of ocular pathology, and it may not provide specific treatment recommendations.
- **No Case Examples:** The article does not provide real-life case examples or detailed case studies, which can be helpful for clinicians to understand the practical application of the concepts discussed.
- **Publication Specificity:** It's published in a specific medical journal, which might limit its accessibility to a broader audience.

6.4 Reference

[Conjunctivitis: A Primer on Conjunctival Biopsy and Approach to Histopathologic Diagnosis](#)

[1]Margo [2]Curtis E. MD [3]Harman

7 Madras eye outbreak in India: Why should we foster a better understanding of acute conjunctivitis?

7.1 Summary

The article discusses the outbreak of acute conjunctivitis, often referred to as "Madras Eye," in Tamil Nadu, India. This outbreak, first identified in Chennai, has affected over 150,000 individuals since the onset of the monsoon. The article highlights the common etiological agents of acute viral conjunctivitis, including various adenovirus serotypes, enterovirus 70 (EV70), and coxsackie virus A24 variant (Cox.A24v). It also emphasizes that the use of terms like "pink eye," "red eye," and "eye flu" in the media can lead to misconceptions and underscores the need for standard terminology and robust definitions in eye health.

The article discusses the potential risks associated with misdiagnosing viral conjunctivitis as bacterial conjunctivitis and the irrational use of antibiotics, which may worsen the burden of antimicrobial resistance (AMR). The prevalence of self-medication practices in India, lack of disease awareness, and increased screen time on mobile phones are additional concerns. Inappropriate treatment can lead to worsened clinical scenarios and affect visual acuity.

The authors recommend that the government collaborates with eye care hospitals to provide teleophthalmology-based healthcare services to rural and remote areas. They also suggest the deployment of allied health professionals, such as pharmacists and nurses, to bridge the gap between patients and healthcare practitioners. Extensive PCR-based DNA sequencing is proposed to enhance epidemiological surveillance and public health efforts. The article stresses that the neglect of preventable conjunctivitis outbreaks can have a significant socio-economic impact and hinder the achievement of universal health coverage.

7.2 Strengths

- **Timely Reporting:** The article addresses a recent health outbreak, providing valuable information and recommendations for addressing the issue.
- **Public Health Relevance:** It highlights the importance of accurate diagnosis and appropriate management to prevent the exacerbation of antimicrobial resistance.
- **Recommendations:** The article provides practical recommendations for healthcare interventions, including teleophthalmology and allied health professional involvement.

7.3 Weaknesses

- **Lack of Data:** The article mentions the outbreak but lacks detailed epidemiological data or statistical analysis.
- **Limited Scope:** While addressing an important issue, the article primarily focuses on recommendations and does not delve into in-depth research or case studies.
- **Specificity:** The article discusses the outbreak in Tamil Nadu, which may limit its relevance to a broader audience.

7.4 Reference

[Madras eye outbreak in India: Why should we foster a better understanding of acute conjunctivitis?](#)

[1]Mohanasundaram, Arun Sundar [2]Gurnani, Bharat1 [3]Kaur, Kirandeep2 [3]Manikkam, Radhakrishnan

8 Pediatric Conjunctivitis: A Review of Clinical Manifestations, Diagnosis, and Management

8.1 Summary:

Pediatric conjunctivitis, often referred to as "pink eye," can be broadly categorized into infectious and non-infectious causes. Bacterial conjunctivitis is the most common form and is characterized by purulent discharge and matting of the eyes. It is often treated with antibiotics, although some cases may

resolve without treatment. Viral conjunctivitis is primarily caused by adenovirus and presents with a burning, gritty feeling and watery discharge. Treatment for viral conjunctivitis is supportive. Allergic conjunctivitis, triggered by allergens such as pollen, typically manifests as bilateral itching and watery discharge and can be treated with lubricants, topical antihistamines, or systemic antihistamines. Additional causes of conjunctivitis include foreign bodies, contact lens wear, and non-allergic environmental factors. Neonatal conjunctivitis, which occurs in the first 28 days of life, requires special care and can be bacterial (often due to *Chlamydia* or *Neisseria gonorrhoeae*) or viral (e.g., herpes simplex). Diagnosis is based on clinical presentation, and treatment varies depending on the cause. The management of conjunctivitis involves an individualized approach to antibiotic use for bacterial cases, supportive care for viral and allergic cases, and timely referral when necessary.

8.2 Strengths:

- **Comprehensive Coverage:** The article provides a comprehensive overview of pediatric conjunctivitis, covering its various etiologies, clinical manifestations, diagnosis, and management. This information is valuable for primary care providers.
- **Evidence-Based:** The article references relevant studies and meta-analyses to support its recommendations, enhancing its credibility.
- **Clear Differentiation:** It clearly distinguishes between different types of conjunctivitis based on clinical features and etiologies, aiding in accurate diagnosis.

8.3 Weaknesses:

- **Lack of Recent Data:** The article does not mention the publication date, so it's unclear when the information was last updated. More recent data on the prevalence of different types of conjunctivitis or emerging treatments may be missing.
- **Limited Discussion of Treatment Advances:** The article mainly discusses traditional treatments for conjunctivitis, but it could benefit from mentioning emerging therapies or innovative approaches for certain cases.
- **Referencing:** While it references studies, it doesn't provide a full list of citations or a bibliography, making it challenging for readers to access the cited research for further study.

8.4 Reference

[Pediatric Conjunctivitis: A Review of Clinical Manifestations, Diagnosis, and Management](#)

[1]Matthew J. Mahoney [2]ORCID,Ruegba Bekibele [3]Sydney L. Notermann [3]Thomas G. Reuter andEmily C. Borman-ShoapORCID

9 Antibiotics versus placebo for acute bacterial conjunctivitis: findings from a Cochrane Systematic Review

9.1 Summary

This article presents the findings of a Cochrane Review that evaluated the benefits and safety of antibiotic therapy compared to placebo for acute bacterial conjunctivitis. The review included 21 placebo-controlled randomized controlled trials (RCTs) involving 8,805 participants. The results indicate that antibiotics may increase clinical recovery by 26

9.2 Strengths

- **Comprehensive Review:** The Cochrane Review included a substantial number of RCTs, providing a comprehensive evaluation of antibiotic therapy for acute bacterial conjunctivitis.
- **Well-Defined Outcomes:** The study clearly defines primary and secondary outcomes, making it easy to assess the efficacy and safety of antibiotics.
- **In-Depth Analysis:** The review discusses different types of antibiotics, their impact on clinical recovery and microbiological cure, and the potential for ocular complications.

9.3 Weaknesses

- **Limited Generalizability:** The study predominantly includes trials conducted in the U.S.A., which might limit the generalizability of findings to other regions.
- **Funding Sources:** A significant number of trials received funding from pharmaceutical companies, which could introduce potential bias.
- **Lack of Specific Trial Information:** The summary lacks detailed information on individual trials, such as publication dates, which may affect the relevance of the evidence presented.

9.4 Reference

[Antibiotics versus placebo for acute bacterial conjunctivitis: findings from a Cochrane Systematic Review](#)

[1]Su-Hsun Liu [2]Yu-Yen Chen [3]Ulugbek Nurmatov [3]Onno CP van Schayck

10 Eye exercises for myopia prevention and control: a comprehensive systematic review and meta-analysis of controlled trials

10.1 Summary

This study aimed to evaluate the efficacy of eye exercises in preventing and controlling myopia. Eleven studies with a total of 921 participants were included in the meta-analysis. The analysis focused on changes in visual acuity, refractive error, and protective/mitigating effects compared to control interventions. The results suggest that eye exercises have limited to no efficacy in preventing or controlling myopia progression. Therefore, the study recommends reconsidering the use of eye exercises as a policy until robust evidence supports their efficacy.

10.2 Strengths

- **Comprehensive Analysis:** The study conducted a meta-analysis that included multiple studies with a substantial number of participants, enhancing the reliability of the findings.
- **Clear Objectives:** The study had clear objectives and focused on essential myopia-related measures, including visual acuity, refractive error, and protective/mitigating effects.
- **Evidence-Based Recommendation:** The study's conclusion aligns with the available evidence, making a sensible recommendation to reconsider the use of eye exercises for myopia control.

10.3 Weaknesses

- **Risk of Bias:** A significant number of included studies had concerns about bias, which may affect the overall reliability of the results.
- **Limited Outcome Measures:** The analysis did not find a significant benefit for eye exercises regarding visual acuity or refractive error, but the study recommends their retirement based on a single positive outcome (protective/mitigating effects). This could be a limitation.
- **Limited Generalizability:** The study might not consider specific subgroups or age ranges within the participants, limiting the generalizability of the results to different populations.

10.4 Reference

[Eye exercises for myopia prevention and control: a comprehensive systematic review and meta-analysis of controlled trials](#)

[1]Zhicheng Lin [2]Feng Xiao [3]Weiye Cheng

11 A Tele-Healthcare System For Diagnosis and Treatment of Patients During A Pandemic

11.1 Summary

This chapter discusses the importance of telehealth and the utilization of artificial intelligence (AI) technologies in virtual health management systems. Telehealth involves the remote diagnosis and treatment of patients, particularly during pandemics. It offers advantages such as reduced travel costs, shorter waiting times, and improved healthcare quality. Telehealth can be especially valuable in rural areas and where healthcare services are limited. Its primary goal is to enhance the management of chronic diseases, especially during emergencies. The article highlights the need for models to empower patients in self-managing chronic illnesses, addressing the shortage of healthcare professionals during pandemics. Telehealth plays a crucial role in curbing the spread of infections by facilitating physical distancing. It's instrumental in managing conditions like COVID-19, cardiovascular diseases, mental disorders, and diabetes. Therefore, healthcare systems and hospitals must focus on digital transformation to meet evolving needs.

11.2 Strengths

- **Timely Relevance:** The article addresses the significance of telehealth and AI during pandemics, which is highly relevant in the context of healthcare challenges posed by events like COVID-19.
- **Clear Benefits:** It emphasizes the benefits of telehealth, such as reducing costs, improving healthcare quality, and enabling chronic disease management.
- **Multifaceted Approach:** The article discusses the application of telehealth and AI in various healthcare aspects, including chronic disease management, infection control, and digital transformation.

11.3 Weaknesses

- **Lack of Specifics:** While the article highlights the importance of telehealth and AI, it does not delve deeply into specific technologies or strategies, which might leave readers wanting more practical information.
- **Limited Coverage:** The article briefly mentions various healthcare areas but may not provide in-depth insights into each, potentially requiring further reading for a comprehensive understanding.
- **Citing Sources:** The article does not specify the sources or studies it relies on for its claims, which could affect the credibility of the information presented.

11.4 Reference

[A Tele-Healthcare System For Diagnosis and Treatment of Patients During A Pandemic](#)

[1]Disha M. Dhabarde [2]Monika P. Maske [3]Jagdish R. Baheti [4]Hitesh V. Shahare

12 Bilateral Acute Iris Transillumination and Elevated Intraocular Pressure After COVID-19 Infection

12.1 Summary

Bilateral Acute Iris Transillumination (BAIT) is characterized by the release of abundant pigment into the anterior chamber of the eye, leading to symptoms such as atonic pupils and significant increases in intraocular pressure (IOP). BAIT often occurs after viral upper respiratory tract infections or systemic fluoroquinolone usage. This article presents two cases of patients who recently had COVID-19 and subsequently experienced decreased vision. Both patients exhibited elevated IOP and iris transillumination defects, and were diagnosed with BAIT. One patient's elevated IOP was managed with medication, while the other required glaucoma surgery due to uncontrolled IOP. Notably, neither patient received specific COVID-19 treatment, indicating that the pressure elevation may be directly related to the viral infection's inflammatory process. The article underscores the importance of considering atypical ocular presentations of COVID-19, which can have serious consequences.

12.2 Strengths

- **Unique Contribution:** The article explores a rare but significant ocular condition, BAIT, in the context of COVID-19, which adds to the understanding of the virus's diverse manifestations.
- **Real-World Cases:** The inclusion of two real cases strengthens the article's clinical relevance and offers insights into diagnosis and management.
- **Timely Relevance:** Given the ongoing concern about COVID-19 and its various presentations, this article addresses a relevant and evolving medical issue.

12.3 Weaknesses

- **Limited Sample Size:** The article is based on only two cases, which might limit the generalizability of findings and make it challenging to draw broad conclusions.
- **Lack of Comparative Data:** The article does not compare these cases to a control group or provide a comprehensive analysis of similar cases, potentially missing an opportunity for a more robust study.
- **Causality Uncertainty:** While there is an association between COVID-19 and BAIT, the article does not definitively establish a causal link, leaving room for further investigation.

12.4 Reference

[Bilateral Acute Iris Transillumination and Elevated Intraocular Pressure After COVID-19 Infection](#)

[1] Gulmez Sevim [2] Duygu MD [3] Hidayet MD [4] Evereklioglu