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RESPONSIBLE EDITORS FOR THIS ISSUE

Production Editor: Ying-Yi Yuan, Production Department Director: Xiang Li, Editorial Office Director: Jin-Lei Wang.

NAME OF JOURNAL

World Journal of Clinical Cases

ISSN

ISSN 2307-8960 (online)

LAUNCH DATE

April 16, 2013

FREQUENCY

Thrice Monthly

EDITORS-IN-CHIEF

Bao-Gan Peng, Jerzy Tadeusz Chudek, George Kontogeorgos, Maurizio Serati, Ja

EDITORIAL BOARD MEMBERS

https://www.wjgnet.com/2307-8960/editorialboard.htm

PUBLICATION DATE

September 26, 2023

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INSTRUCTIONS TO AUTHORS

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https://www.wignet.com/bpg/gerinfo/242

STEPS FOR SUBMITTING MANUSCRIPTS

https://www.wjgnet.com/bpg/GerInfo/239

ONLINE SUBMISSION

https://www.f6publishing.com

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World J Clin Cases 2023 September 26; 11(27): 6592-6596

DOI: 10.12998/wjcc.v11.i27.6592 ISSN 2307-8960 (online)

CASE REPORT

Delayed-onset micrococcus luteus-induced postoperative endophthalmitis several months after cataract surgery: A case report

Ki-Yup Nam, Hong-Won Lee

Specialty type: Ophthalmology

Provenance and peer review:

Unsolicited article; Externally peer reviewed.

Peer-review model: Single blind

Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): 0 Grade D (Fair): 0 Grade E (Poor): 0

P-Reviewer: Morya AK, India

Received: June 26, 2023 Peer-review started: June 26, 2023 First decision: August 10, 2023 Revised: August 22, 2023 Accepted: August 29, 2023 Article in press: August 29, 2023 Published online: September 26,

2023



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Abstract

BACKGROUND

Micrococcus luteus (M. luteus)-induced endophthalmitis is very rare and and may present as either acute or chronic postoperative endophthalmitis. The aim of this study was to report a case of delayed-onset M. luteus-induced endophthalmitis that occurred several months after cataract surgery.

CASE SUMMARY

A 78-year-old man presented with decreased vision, pain and redness in the right eye that had begun 3 days prior. He had undergone cataract surgery 4 mo prior. Visual acuity was counting fingers; slit-lamp examination revealed conjunctival injection, posterior corneal precipitates, anterior chamber inflammation (cell 4+), and hypopyon. Fundus examination revealed moderate vitreous haze. Urgent vitrectomy was performed for suspected infectious endophthalmitis, followed by vitreous irrigation with injections of antibiotics. On the postoperative day 1, anterior chamber cell decreased to 2+ and hypopyon was not observed on slit lamp examination. Six days postoperatively, the patient had recurrent eye pain, and the anterior chamber cell grade increased to 4+; hypopyon recurred in the anterior chamber, and whitish plaque was observed in the lens capsule. Therefore, the patient underwent intraocular lens (IOL) and lens capsule removal, followed by vitreous irrigation, antibiotics injection, and vitrectomy. M. luteus was identified from a lens capsule culture.

CONCLUSION

In cases of delayed-onset M. luteus-induced endophthalmitis, early vitrectomy and removal of the IOL and lens capsule may be necessary.

Key Words: Micrococcus luteus; Chronic endophthalmitis; Postoperative endophthalmitis;

Case report

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Core Tip: Micrococcus luteus (M. luteus)-induced endophthalmitis is very rare, and no case of delayed-onset M. luteusinduced endophthalmitis several months after phacoemulsification has been reported. Early vitrectomy, vitreous irrigation, antibiotic injection, and removal of the intraocular lens and lens capsule may be necessary to treat this condition.

Citation: Nam KY, Lee HW. Delayed-onset micrococcus luteus-induced postoperative endophthalmitis several months after cataract surgery: A case report. World J Clin Cases 2023; 11(27): 6592-6596

URL: https://www.wjgnet.com/2307-8960/full/v11/i27/6592.htm

DOI: https://dx.doi.org/10.12998/wjcc.v11.i27.6592

INTRODUCTION

Infectious endophthalmitis, pathogen-induced inflammation of the intraocular cavity, is a very severe eye disease with a poor visual prognosis. The routes of intraocular infection by pathogens in infectious endophthalmitis are broadly divided into exogenous and endogenous. The most common cause of exogenous infectious endophthalmitis is intraocular surgery [1]. Depending on the timing and characteristics of onset, postoperative endophthalmitis can be classified as acute or chronic (or delayed-onset). Acute endophthalmitis generally occurs within 6 wk postoperatively, while chronic endophthalmitis occurs > 6 wk postoperatively [2]. Acute endophthalmitis is 2- to 5-fold more common than chronic endophthalmitis[3]. Propionibacterium acnes is the most common causative pathogen in cases of chronic endophthalmitis (41%-63% of cases)[3].

Chronic endophthalmitis generally manifests as mild inflammation that persists and recurs; it begins as anterior chamber inflammation and gradually progresses to the posterior eye. Pain may not be present, but vision is usually impaired. The inflammation responds to steroid therapy, but it tends to recur when steroid treatment is reduced [3,4].

We encountered a case of chronic (or delayed-onset) micrococcus luteus (M. luteus)-induced endophthalmitis that encountered several months after cataract surgery. This pathogen is a very rare cause, and there have been few relevant reports. Here, we describe this case and review the existing literature.

CASE PRESENTATION

Chief complaints

The patient visited our ophthalmology clinic due to a visual impairment, pain, redness and discharge in the right eye.

History of present illness

The patient is a 78-year-old male and the symptoms had begun 3 d earlier.

History of past illness

The patient had undergone cataract surgery 4 mo prior.

Personal and family history

The patient had hypertension, no history of trauma.

Physical examination

The patient had a visual acuity of counting fingers in the right eye and an intraocular pressure of 11. Slit-lamp examination showed conjunctival injection, corneal endothelial precipitates, anterior chamber cell grade 4+, and hypopyon 1 mm. Fundus examination revealed moderate vitreous opacities (Figure 1). In the left eye, the best-corrected visual acuity (BCVA) was 0.5, and the intraocular pressure was 14. Slit-lamp examination was unremarkable. Fundus examination revealed epiretinal membrane.

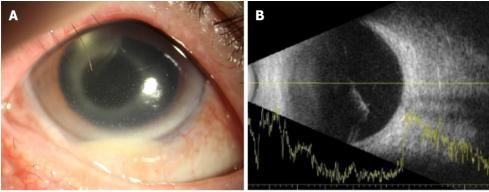
Laboratory examinations

There were no special abnormalities.

Imaging examinations

B-scan ultrasonography showed vitreous opacity.





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Figure 1 Anterior segment photograph and ultrasonogram at initial presentation in a patient with a history of cataract surgery 4 mo prior. A: Conjunctival injection, keratic precipitates, and hypopyon formation in the anterior chamber; B: Heterogeneous vitreous opacity is evident in the B-scan ultrasonogram.

FINAL DIAGNOSIS

The patient was suspected of having infectious endophthalmitis.

TREATMENT

Because of suspected infectious endophthalmitis, emergency vitrectomy and anterior chamber irrigation were performed. Vitreous and anterior chamber aqueous humor samples were obtained for microbial culture test. Intraoperatively, the vitreous cavity was irrigated with 0.2 mg/mL vancomycin (Hanomycin; Samjin Pharm., Seoul, South Korea) and 0.45 mg/mL ceftazidime (Dimcef; Chong Kun Dang Pharm., Seoul, South Korea); vancomycin (1.0 mg/0.1 mL) and ceftazidime (2.25 mg/0.1 mL) were also injected intravitreally. Because there were no specific abnormal findings in the intraocular lens (IOL) and lens capsule, they were not removed.

Postoperatively, 0.5% moxifloxacin (Vigamox®, Novartis) eye drops were applied at 1-h intervals, and 1% cyclopentolate (Cyclogyl®, Alcon, Puurs, Belgium) was applied at 3-h intervals. Antibiotic ointment (3 mg/g Ocuflox Eye Ointment 0.3%, Samil Pharm., Seoul, South Korea) was applied, and moxifloxacin hydrochloride (436.8 mg/250 mL; Avelox, Chong Kun Dang Pharm) was intravenously injected once daily.

OUTCOME AND FOLLOW-UP

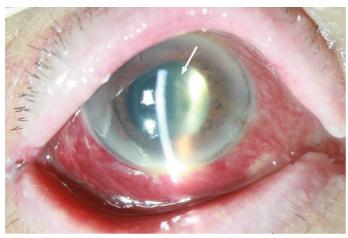
On the first postoperative day, the visual acuity remained counting fingers; however, the anterior chamber cell grade decreased to 2+, the hypopyon disappeared, and the pain improved. No bacteria were grown in the vitreous culture. On the fifth postoperative day, the BCVA was 0.1, but the anterior chamber cell grade increased again; thus, vancomycin (1.0 mg/0.1 mL) and ceftazidime (2.25 mg/0.1 mL) were intravitreally injected. However, on the next day, pain in the right eye recurred, the anterior chamber cell grade increased to 4+, the hypopyon flare reappeared, and a whitish plaque was observed in the posterior capsule of the lens (Figure 2).

Accordingly, it has been decided to proceed with a reoperation on the sixth postoperative day. The IOL and capsule were removed (Figure 3); intravitreal washout was conducted with vancomycin 0.2 mg/mL and ceftazidime 0.45 mg/ mL, as well as intravitreal injection of vancomycin 1.0 mg/0.1 mL and ceftazidime 2.25 mg/0.1 mL. This time, in addition to vitreous and aqueous humor, we also conducted culture tests on the removed IOL and capsular bag. When checking the results of the culture test on the second day after surgery, other samples had negative culture results, but M. luteus was identified in a capsular bag culture. The inflammation gradually subsided, the inflammatory cell grade decreased to a trace, and the BCVA improved to 0.15 at 1 wk after reoperation. The inflammation did not recur. At 4 mo postoperatively, the BCVA was 0.8, and the intraocular pressure was 12 mmHg. No signs of inflammation, such as congestion, anterior chamber cells, or vitreous opacity, were observed; transscleral fixation of the IOL is under consideration.

DISCUSSION

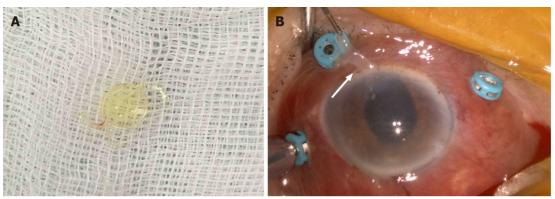
M. luteus is a Gram-positive, coagulase-negative member of the normal flora of the eyelid and conjunctiva [5]. In a Korean study of bacterial cultures from the conjunctival sacs of normal patients before cataract surgery or intraocular injection, M. luteus represented 2% of all bacterial strains[6]. M. luteus is a low-virulence species that rarely causes infections. It can cause opportunistic infections in immunocompromised patients. Thus far, only two cases of M. luteus-induced endoph-





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Figure 2 Anterior segment photograph on the day of the second operation. Whitish plaque was observed in the lens capsule (white arrow). Anterior chamber cell grade increased to 4+ and hypopyon reappeared.



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Figure 3 The intraocular lens and capsule (white arrow) were removed during the second operation. Micrococcus luteus was cultured. A: Intraocular lens; B: Capsule.

thalmitis have been reported: One after trauma with an intraocular foreign body and the other after extracapsular cataract extraction[5,7].

The present case was regarded as chronic endophthalmitis because it occurred 4 mo after uneventful cataract surgery. Chronic endophthalmitis typically manifests as mild persistent inflammation; in our patient, it manifested as acute endophthalmitis with sudden vision loss, pain, severe anterior inflammation, and hypopyon. It is unclear whether inflammation was present before symptoms began, but the patient reported no specific symptoms before endophthalmitis onset. Fogla et al[5] also described a similar course of M. luteus-induced endophthalmitis after extracapsular cataract extraction. Their patient developed persistent anterior inflammation 4 d postoperatively, which improved with steroid treatment but recurred when the medication was tapered. Seven weeks postoperatively, the patient developed acute endophthalmitis with sudden symptom onset.

Surgical removal of the IOL is recommended as treatment for chronic endophthalmitis. In chronic endophthalmitis, bacterial cells penetrate between the IOL and lens capsule, causing persistent inflammation. Moreover, the endophthalmitis does not recur after IOL removal, implying that such removal is necessary to eliminate the source of infection [8]. In the present case, vitrectomy and intravitreal antibiotics were used as primary treatment, but the IOL was not removed. The inflammation improved after the initial vitrectomy, but it recurred as whitish plaques increased on the IOL and lens capsule. During the second surgery, the IOL and lens capsule were removed; the inflammation improved without recurrence. Although vitreous cultures collected during the first and second surgeries were negative, bacteria grew in the lens capsule culture obtained during the second surgery.

Although the recurrence may be associated with antibiotics resistance, Cartwright et al [7] reported that initial broadspectrum coverage with cephazolin sodium and gentamicin is adequate in most cases of M. luteus-induced endophthalmitis since M. luteus is highly sensitive. In this case, the recurrence is highly likely to be attributed to microorganisms remaining in the residual IOL and lens capsule after the initial surgery, and inflammation was resolved after removal IOL and the lens capsule during second surgery.

CONCLUSION

We have described a case of delayed-onset M. luteus-induced endophthalmitis after cataract surgery. M. luteus is a very rare cause of endophthalmitis that can manifest as either persistent and recurrent mild inflammation or acute inflammation with sudden symptom onset even several months after intraocular surgery. Therefore, when endophthalmitis follows such courses, M. luteus should be considered as a potential causative agent. Based on previous reports and the treatment course and culture results in the present case, we recommend considering removal of the intraocular lens and capsule to prevent endophthalmitis recurrence.

FOOTNOTES

Author contributions: Nam KY designed the study; Lee HW and Nam KY contributed to the analysis and interpretation of data; Lee HW, and Nam KY contributed to the collection of data; Lee HW and Nam KY drafted the manuscript; Lee HW and Nam KY contributed to the critical review of the article; and all authors issued final approval for the version to be submitted.

Informed consent statement: Informed written consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: All the authors declare that they have no conflict of interest.

CARE Checklist (2016) statement: The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

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S-Editor: Liu JH L-Editor: A P-Editor: Liu JH

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