

Case Report

Optometry Case Studies An Exploration of Eye Health

BY

Musoke Ntaate Augustine

March 9, 2024

Abstract (no references)

Introduction: What is unique about this case and what does it add to the scientific literature? (no references)

Main symptoms and/or important clinical findings

The main diagnoses, therapeutic interventions, and outcomes.

Conclusion-What is the main "take-away" lesson(s) from this case?

Contents

Declaration	i
Acknowledgement	i
List Of Tables	i
List Of Figures	i
Operational Definitions	i
Abbreviations	i
Abstract	ii
1 Introduction	1
1.1 One or two paragraphs summarizing why this case is unique (may include references)	1
2 Patient Information	1
2.1 De-identified patient specific information.	1
2.2 Primary concerns and symptoms of the patient	1
2.3 Medical, family, and psycho-social history including relevant genetic information Reported on Line	1
2.4 Relevant past interventions with outcomes	1
3 Clinical Findings	1
3.1 Describe significant physical examination (PE) and important clinical findings	1
4 Timeline	1
4.1 Historical and current information from this episode of care organized as a timeline	1
5 Diagnostic Assessment	1
5.1 Diagnostic testing (such as PE, laboratory testing, imaging, surveys)	1
5.2 Diagnostic challenges (such as access to testing, financial, or cultural)	1
5.3 Diagnosis (including other diagnoses considered)	1
5.4 Prognosis (such as staging in oncology) where applicable	1
6 Therapeutic Intervention	2
6.1 Types of therapeutic intervention (such as pharmacologic, surgical, preventive, self-care)	2
6.2 Administration of therapeutic intervention (such as dosage, strength, duration)	2
6.3 Changes in therapeutic intervention (with rationale)	2
7 Follow-up and Outcomes	3
7.1 Clinician and patient-assessed outcomes (if available)	3
7.2 Important follow-up diagnostic and other test results	3
7.3 Intervention adherence and tolerability (How was this assessed?)	3
7.4 Adverse and unanticipated events	3
8 Discussion	3
8.1 A scientific discussion of the strengths AND limitations associated with this case report	3
8.2 Discussion of the relevant medical literature with references	3
8.3 The scientific rationale for any conclusions (including assessment of possible causes)	3
8.4 The primary "take-away" lessons of this case report (without references) in a one paragraph conclusion	3
9 Patients Perspective	3
9.1 The patient should share their perspective in one to two paragraphs on the treatment(s) they received.	3
10 Informed Consent	3
10.1 Did the patient give informed consent? Please provide if requested.	3
References	4

1 Introduction

1.1 One or two paragraphs summarizing why this case is unique (may include references)

(Wajuihian & Mashige, 2021)

2 Patient Information

2.1 De-identified patient specific information.

2.2 Primary concerns and symptoms of the patient

2.3 Medical, family, and psycho-social history including relevant genetic information Reported on Line

2.4 Relevant past interventions with outcomes

3 Clinical Findings

3.1 Describe significant physical examination (PE) and important clinical findings

4 Timeline

4.1 Historical and current information from this episode of care organized as a timeline

5 Diagnostic Assessment

5.1 Diagnostic testing (such as PE, laboratory testing, imaging, surveys)

5.2 Diagnostic challenges (such as access to testing, financial, or cultural)

5.3 Diagnosis (including other diagnoses considered)

5.4 Prognosis (such as staging in oncology) where applicable

6 Therapeutic Intervention

6.1 Types of therapeutic intervention (such as pharmacologic, surgical, preventive, self-care)

6.2 Administration of therapeutic intervention (such as dosage, strength, duration)

6.3 Changes in therapeutic intervention (with rationale)

We will discuss various machine learning algorithms, such as **Support Vector Machine (SVM)** and **ML**.and use of the **LogMAR** is very need in such cases

7 Follow-up and Outcomes

- 7.1 Clinician and patient-assessed outcomes (if available)**
- 7.2 Important follow-up diagnostic and other test results**
- 7.3 Intervention adherence and tolerability (How was this assessed?)**
- 7.4 Adverse and unanticipated events**

8 Discussion

- 8.1 A scientific discussion of the strengths AND limitations associated with this case report**
- 8.2 Discussion of the relevant medical literature with references**
- 8.3 The scientific rationale for any conclusions (including assessment of possible causes)**
- 8.4 The primary "take-away" lessons of this case report (without references) in a one paragraph conclusion**

9 Patients Perspective

- 9.1 The patient should share their perspective in one to two paragraphs on the treatment(s) they received.**

10 Informed Consent

- 10.1 Did the patient give informed consent? Please provide if requested.**

References

Wajuihian, S. O., & Mashige, K. P. (2021). Gender and age distribution of refractive errors in an optometric clinical population. *Journal of optometry*, 14(4), 315–327.