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## REVIEWER'S REPORT

**Manuscript No.: IJAR-58105**

**Title: Conservative Management of a Grossly Decayed Mandibular Molar with Radix Entomolaris: Endodontic Therapy and Post-Endodontic Rehabilitation.**

**Recommendation:**

Accept as it is .....

Accept after minor revision..... Yes.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality	•			
Techn. Quality	•			
Clarity		•		
Significance		•		

**Reviewer's ID: JPR-Dr. Sireesha Kuruganti**

### *Detailed Reviewer's Report*

Overall Assessment:

The manuscript presents an interesting clinical case involving conservative management of a grossly decayed mandibular molar exhibiting radix entomolaris with subsequent post-endodontic rehabilitation. The topic is clinically relevant because preservation of teeth with anatomical variations remains important in endodontics. However, the manuscript requires substantial improvements in scientific rigor, diagnostic documentation, literature integration, and language quality before publication. Several methodological details are missing, and some conclusions are overgeneralized from a single case.

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Strengths

1. Clinically relevant topic.
2. Demonstrates multidisciplinary management.
3. Adequate sequence of radiographs presented.
4. Highlights importance of preserving natural dentition.

## REVIEWER'S REPORT

5. Addresses an uncommon anatomical variation (radix entomolaris).

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### Major Concerns

1. Title Needs Refinement

#### Current Title

"Conservative Management of a Grossly Decayed Mandibular Molar with Radix Entomolaris: Endodontic Therapy and Post-Endodontic Rehabilitation"

#### Comments

The title is lengthy and does not indicate that it is a case report.

#### Suggested Revision

"Conservative Management of a Grossly Decayed Mandibular Molar with Radix Entomolaris: A Case Report on Endodontic and Post-Endodontic Rehabilitation"

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2. Abstract Requires Significant Improvement

Lines 3-23

#### Issues:

No structured format.

Missing objective.

Missing significance statement.

Outcome assessment is absent.

No follow-up duration mentioned.

The abstract should include:

## REVIEWER'S REPORT

Background

Case presentation

Treatment performed

Clinical outcome

Follow-up results

Example:

"At 6-month follow-up, the tooth remained asymptomatic and functional."

Currently, no follow-up data exist.

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### 3. Keywords Need Optimization

Current keywords:

Grossly decayed tooth

Radix entomolaris

Root canal treatment

Pulpal necrosis

Asymptomatic apical periodontitis

Metal post

Post-endodontic restoration

Problems:

Too many keywords.

Disease diagnoses should be minimized.

Use MeSH terms.

## REVIEWER'S REPORT

Suggested keywords:

Radix entomolaris

Mandibular molar

Root canal treatment

Post-endodontic rehabilitation

Conservative dentistry

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Introduction Section Review

4. Literature Review is Insufficient

Lines 34-54

Problems:

Too brief.

Epidemiology of radix entomolaris is absent.

Ethnic prevalence is not discussed.

Should discuss:

Caucasians: <5%

Indian population prevalence

Mongoloid populations: 5-30%

Clinical significance requires stronger evidence.

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## REVIEWER'S REPORT

### 5. References are Inadequately Integrated

Lines 40-46

Authors cite references but do not critically analyze literature.

Current:

"well documented"

Should discuss:

Existing management protocols

Gaps in literature

Why this case is unique

---

Case Report Section Review

### 6. Patient History is Incomplete

Lines 56-60

Missing information:

Medical history

Dental history

Systemic diseases

Tobacco habits

Previous restorations

Oral hygiene status

Case reports must provide comprehensive patient history.

## REVIEWER'S REPORT

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### 7. Periodontal Assessment is Inadequate

Lines 61-64

Authors mention:

Bone loss

Furcation involvement

Missing:

Furcation grade (Grade I, II, III)

Probing depth

Clinical attachment loss

Gingival index

Tooth number

These are essential.

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### 8. Tooth Identification Missing

Throughout the manuscript, the exact tooth number is not mentioned.

Specify:

FDI notation (46 or 47)

Universal notation (#30 or #31)

### 9. Diagnosis Requires Clarification

Lines 63-64

## REVIEWER'S REPORT

Authors diagnose:

"Pulpal necrosis with asymptomatic apical periodontitis"

Questions:

How was diagnosis established?

Missing:

Cold test findings

Electric pulp testing

Heat test findings

Please provide.

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Endodontic Procedure Review

10. Working Length Methodology is Incomplete

Lines 73-74

Authors state:

"Apex locator and confirmed radiographically."

Missing:

Apex locator brand

Model details

Example:

"Root ZX II (J Morita, Japan)"

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## REVIEWER'S REPORT

11. Rotary Instrument System Not Specified

Lines 74-75

Authors state:

"Rotary instrumentation up to size 24/04"

Missing:

Rotary file system

Manufacturer

Example:

Protaper Gold

Neoendo Flex

HyFlex CM

Instrumentation protocol should be reproducible.

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12. Irrigation Protocol Requires Detail

Lines 75-76

Authors mention:

Sodium hypochlorite

Saline

EDTA

Missing:

Concentrations

## REVIEWER'S REPORT

Volume

Irrigation sequence

Activation technique

Example:

3% NaOCl (20 ml)

17% EDTA (5 ml)

Passive ultrasonic activation

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13. Calcium Hydroxide Placement Needs Detail

Lines 76-77

Missing:

Brand name

Delivery system

Duration rationale

Only "one week" is mentioned.

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14. Obturation Technique Not Specified

Lines 94-95

Authors mention:

"Gutta-percha and bioceramic sealer"

Missing:

## REVIEWER'S REPORT

Sealer brand

Obturation technique

Examples:

Single cone

Warm vertical compaction

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15. Post Placement Lacks Justification

Lines 104-106

Questions:

Why choose metal post instead of fiber post?

Need justification because modern literature often favors fiber posts.

Authors should discuss:

Ferrule effect

Remaining dentin thickness

Occlusal loading

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Restoration Section Review

16. Crown Details Missing

Lines 117-119

Missing:

## REVIEWER'S REPORT

Crown material

Crown type

Specify:

PFM

Zirconia

Full metal crown

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Discussion Section Review

17. Excessive Literature Summary

Lines 145-179

The discussion reads like a textbook review rather than a case discussion.

Should emphasize:

Why this case was unique.

Clinical decision-making.

Challenges encountered.

Alternative treatment options.

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18. CBCT Discussion Contradiction

Lines 162-164

Authors discuss CBCT but never used CBCT in this case.

## REVIEWER'S REPORT

Question:

Why was CBCT not performed?

If unavailable, explain.

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19. No Follow-Up Data

This is the biggest limitation.

No follow-up is reported.

A case report should ideally include:

3 months

6 months

12 months

Without follow-up, treatment success cannot be validated.

Entire manuscript lacks this critical component.

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Conclusion Review

20. Conclusions are Overstated

Lines 187-196

Current conclusion:

"...can be successfully managed..."

This is overgeneralized from a single patient.

Suggested:

## REVIEWER'S REPORT

"This case suggests that conservative multidisciplinary management may be a viable treatment option in selected cases."

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Language and Formatting Issues

Frequent grammatical errors

Line 42

"Carabelli et al. as radix entomolaris"

Should be: "Carabelli first described this anatomical variation as radix entomolaris."

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Line 75

"using rotary instrumentation up to size 24/04"

Use standard notation:

"size 25/.04"

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Line 169

"champagne effect in the pulp chambe"

Typographical error:

"chamber"

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## REVIEWER'S REPORT

Figure Legends Need Standardization

Examples:

Current:

"MASTERAPICAL RADIOGRAPH"

Correct:

"Master Apical Cone Radiograph"

Use consistent capitalization throughout.

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Additional Recommendations

The authors should include:

A Table Summarizing Treatment Protocol

Procedure	Details
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Diagnosis	Pulpal necrosis with asymptomatic apical periodontitis
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Working length	Apex locator + radiograph
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Instrumentation	Specify file system
-----------------	---------------------

Irrigation	Specify concentration and volume
------------	----------------------------------

Intracanal medicament	Calcium hydroxide
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Obturation	Technique + bioceramic sealer
------------	-------------------------------

Post	Metal post
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Crown	Specify material
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Follow-up	Add 6-12 months
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The manuscript has publishable potential but requires substantial revision before it can be considered for acceptance.