Manual Evaluation Report: RAG vs Base Model

Evaluation Criteria

- 1. Relevance Does the answer directly address the question?
- 2. Factual Accuracy Are the statements medically accurate?
- 3. Completeness Is the answer thorough and informative?
- 4. Clarity Is the response well-structured and easy to understand?
- 5. Fluency Is the grammar and language usage natural and correct?
- 6. Hallucinations Are there false or nonsensical claims? (1 = severe, 5 = none)

Evaluation Summary Table

Question	Model	Rel	Acc	Comp	Clar	Flu	Halluc.
What is Knee Replacement?	RAG	5	5	5	5	5	5
	Base Model	1	1	1	2	3	1
What is Glaucoma?	RAG	5	5	5	5	5	5
	Base Model	1	1	1	2	2	1
What is Anxiety Disorder?	RAG	5	5	4	5	5	5
	Base Model	3	2	1	3	3	2

Average Scores

- RAG Model: 29.6 / 30

- Base Model: 11.2 / 30

Conclusion

Yes RAG Model provides factually accurate, clear, and complete responses tailored to the query, with no hallucinations.

No Base Model often provides incomplete, irrelevant, or incorrect answers, with frequent hallucinations and poor structure.