**Evaluate Manually Answers**

There are two scores that need to be filled

* Hallucination Score
  + Look for the disease on the MayoClinic website (<https://www.mayoclinic.org/>)
  + Check if the answer provided by the model is coherent with the description of the disease you see on the MayoClinic website
  + If it is coherent, you should fill the score with a 0
  + If it is not coherent in any aspect, you should fill the score with a 1
* Factor Score
  + **Factoids**: Factoids in LLM answer generation are small, specific pieces of information, like facts or short statements, that the model retrieves or generates to answer a question
    - Example:
      * **Question:** *What are some reasons the Eiffel Tower was built, and how tall is it?*
      * **Answer:** The Eiffel Tower was built as the entrance arch for the 1889 World’s Fair (1), was designed by Gustave Eiffel’s company (2), and is 330 meters tall (3).
      * The answer above has 3 factoids.
  + For OUR factor score, it’s a fraction of the # of factoids in the model-generated answer / the # of factoids in the MedQuAD answer
  + # of factoids in the MedQuad answer is the # of facts, or short statements
  + # of factoids in the model-generated answer is the # of MedQuad factoids that are generated/found in the model-generated answer

Example

| ANSWERID | Question | Answer | URL | AsclepiusAnswer | Hallucination Score | Factor Score |
| --- | --- | --- | --- | --- | --- | --- |
| ADAM\_0003147\_Sec1.txt | What is (are) Polycystic ovary syndrome ? (Also called: Polycystic ovaries; Polycystic ovary disease; Stein-Leventhal syndrome; Polyfollicular ovarian disease) | Polycystic ovary syndrome is a condition in which a woman has an imbalance of female sex hormones. This may lead to changes in the menstrual cycle, cysts in the ovaries, trouble getting pregnant, and other health problems.) | https://www.nlm.nih.gov/medlineplus/ency/article/000369.htm | Polycystic ovary syndrome is a condition characterized by the presence of multiple cysts in the ovaries, which can cause pain, bloating, and other symptoms. It is also known by several other names, including Stein-Leventhal syndrome and Polyfollicular ovarian disease.<|end\_of\_text|> | 0 | 1/5 |

* Hallucination Score
  + It is 0 because we checked on the MayoClinic website for the disease (<https://www.mayoclinic.org/diseases-conditions/pcos/symptoms-causes/syc-20353439>) and the description is coherent.
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  + The MedQuAD answer has 5 factoids: Polycystic ovary syndrome is a condition in which a woman has an imbalance of female sex hormones (1). This may lead to changes in the menstrual cycle (2), cysts in the ovaries (3), trouble getting pregnant (4), and other health problems (5).)
  + The Asclepius answer has 1 out of the 5 MedQuAD factoids: Polycystic ovary syndrome is a condition characterized by the presence of multiple cysts in the ovaries (1), which can cause pain, bloating, and other symptoms. It is also known by several other names, including Stein-Leventhal syndrome and Polyfollicular ovarian disease.
  + Final factor score: 1/5