**Assignment Title: Using Artificial Intelligence and OT Treatment**

**Objective:**

* This assignment will enable students to use artificial intelligence (AI) to investigate treatment strategies for stroke patients in occupational therapy, critically evaluate AI suggestions against evidence-based practice (EBP), and develop a presentation summarizing their findings.
* Databases: PubMed, Google Scholar, Cochrane Library.
* Citation Format: Use APA 7th edition for referencing articles.

1. **Partners** 
   1. Work in pairs to complete the assignment.
   2. Collaborate on research, analysis and power point presentation development.

**2. Use AI to Investigate Treatment Methods**

* Utilize an AI tool (e.g., ChatGPT) to explore the topic of *"How to treat a stroke patient in occupational therapy for… (pick 1 below) in acute care.*
  + Spasticity
  + Memory
  + Visual-perceptual (VP) skills
  + Fine motor coordination (FMC)
  + Functional mobility
  + Safety
  + Cognition
  + Self-care tasks
  + Assistive devices
  + Home modification
  + Caregiver education

1. **Create a power point presentation with the following:**
   1. Student names who contributed to project
   2. Screen shot of the AI prompt and AI’s answer.
   3. Analyze AI Suggested treatment method to include:
      1. Identify treatment method
      2. Define treatment idea (what is it?)
      3. Find 3 peer- reviewed EBP articles per treatment method to support or contradict AI treatment claim
      4. Summarize your journal article
         1. Study design
         2. Population & outcomes measured
         3. Conclusions drawn by authors
      5. Analize if the EBP supports or contradicts AI
      6. Identify how you will use the new information in clinical practice
   4. Reference Page
2. **Prepare to Present: 5-7 min**

* Be ready to present your slides to the class.
* Each team member should actively participate in the presentation.

AI Assignment Rubric

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Exemplary (5) | Proficient (4) | Developing (3) | Needs  Improvement  (0-2) |
| EBP Analysis Treatment #1 |  |  |  |  |
| Article #1 | Clearly and thoroughly describes study design, including methodology, controls, and variables. | Describes study design with minor omissions or inaccuracies. | Study design description is unclear or incomplete. | Study design is not identified or described. |
|  | Provides a detailed explanation of the study population and sample, including demographics and relevance to OT. | Explains the population and sample with minor gaps or omissions. | Limited or unclear explanation of the study population and sample. | Population and sample are not identified or explained. |
|  | Clearly identifies all outcomes measured and their significance to the treatment method. | Identifies outcomes measured with minor inaccuracies or omissions. | Outcomes are identified but lack clarity or relevance. | Outcomes measured are not identified or described. |
|  | Accurately summarizes the authors' conclusions with clear reference to evidence presented in the article. | Summarizes conclusions with minor inaccuracies or lacks depth. | Conclusions are summarized but lack accuracy or completeness. | Conclusions are not summarized or are entirely inaccurate. |
|  | Clearly evaluates whether the evidence supports or contradicts the AI's suggestion, with detailed reasoning and examples. | Evaluates the alignment with the AI's suggestion, but with minor gaps in reasoning or depth. | Limited evaluation of evidence alignment, reasoning lacks depth or clarity. | Fails to evaluate evidence alignment or provide reasoning. |
| Article #2 | Clearly and thoroughly describes study design, including methodology, controls, and variables. | Describes study design with minor omissions or inaccuracies. | Study design description is unclear or incomplete. | Study design is not identified or described. |
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| EBP Analysis Treatment #2 |  |  |  |  |
| Article #1 | Clearly and thoroughly describes study design, including methodology, controls, and variables. | Describes study design with minor omissions or inaccuracies. | Study design description is unclear or incomplete. | Study design is not identified or described. |
|  | Provides a detailed explanation of the study population and sample, including demographics and relevance to OT. | Explains the population and sample with minor gaps or omissions. | Limited or unclear explanation of the study population and sample. | Population and sample are not identified or explained. |
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| Article #2 | Clearly and thoroughly describes study design, including methodology, controls, and variables. | Describes study design with minor omissions or inaccuracies. | Study design description is unclear or incomplete. | Study design is not identified or described. |
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| EBP Treatment #3 |  |  |  |  |
| Article #1 | Clearly and thoroughly describes study design, including methodology, controls, and variables. | Describes study design with minor omissions or inaccuracies. | Study design description is unclear or incomplete. | Study design is not identified or described. |
|  | Provides a detailed explanation of the study population and sample, including demographics and relevance to OT. | Explains the population and sample with minor gaps or omissions. | Limited or unclear explanation of the study population and sample. | Population and sample are not identified or explained. |
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| APA In-text Reference | All in-text citations are correctly formatted with author(s) and year, following APA 7th edition rules. | Most in-text citations are correctly formatted, with minor errors in author(s) or year. | Several in-text citations are incorrectly formatted or missing key elements. | In-text citations are consistently missing, incorrect, or not in APA format. |
| APA Reference Page | Authors, Titles, publication years, journal names, volume, issue, pages, and DOIs/URLs are accurate and correctly formatted. | Most details are accurate, with minor formatting errors. | Many errors in details affecting accuracy. | Details are consistently incorrect or missing. |
| Power Point | Content is thorough, detailed, and demonstrates a deep understanding of the topic. | Content is clear and demonstrates a good understanding, though lacks some depth. | Content is basic, with minimal explanation or understanding demonstrated. | Content is shallow or incomplete, showing a lack of understanding. |
| Presentation | Speech is clear, confident, and engaging, with proper pace and volume. Minimal reliance on notes. | Speech is mostly clear and confident but occasionally lacks engagement or relies on notes. | Speech is difficult to hear or lacks confidence, with frequent reliance on notes. | Speech is unclear, too fast/slow, or overly reliant on notes. |