\*\*SOAP Note: AI-Assisted Communication Strategies for R.T.\*\*  
  
\*\*Date:\*\* 07/25/2024   
\*\*Client's Name:\*\* R.T.   
\*\*Session Type:\*\* Week 2 - AI Tool Application  
  
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\*\*Subjective:\*\*   
- \*\*Chief Complaint (CC):\*\* Client seeks to refine AI-generated speech prompts for clarity and efficiency during entertainment and leisure activity enhancements.   
- \*\*History of Present Illness (HPI):\*\*   
 - Client engaged with Gemini and personal device, Alexa (referred to as Speaker 15), to explore entertainment options.   
 - R.T. utilized Speaker 15 for media playback, noting difficulty in obtaining specific content such as the Olympic Games and struggled with command precision.  
 - R.T. omitted wake words in 2 instances while controlling media playback and altered phonetic structure in commands leading to synonym confusion.   
 - Demonstrates interest in integrating AI with streaming services such as YouTube and Spotify for seamless access to new content suggestions.  
- \*\*Review of Systems (ROS):\*\*   
 - R.T. encounters challenges in balancing specificity and generality of prompts, resulting in non-target responses, notably with vague content requests (e.g., Command for generic "Olympic Games" returns historical content rather than current event footage).  
  
\*\*Objective:\*\*   
- \*\*Speech Disfluency Metrics:\*\*  
 - Omitted wake word in 2/10 instances during direct media control exercises.   
 - Revision requirement resulted from imprecise command phrasing (e.g., requested geographic fact under history category).  
 - Filler words used in approximately 14% of utterances during long segments.  
- \*\*AI Tool Engagement:\*\*  
 - Managed to successfully link Spotify and YouTube accounts with Speaker 15.  
 - Required tailored prompt refinement to retrieve specific video content after initial failure (e.g., from "Olympic Games" generic query to "Olympic Games 2024").  
- \*\*Therapeutic Observations:\*\*  
 - Demonstrated improved accuracy with volume control commands post-instruction.  
 - Successfully used diagnostic prompts to invoke suitable media content, though initial attempts often incorrect.  
  
\*\*Assessment:\*\*   
- \*\*Problem:\*\* Effectiveness of AI-generated prompts impacted by speech disfluency and prompt specificity issues.   
- \*\*Differential Diagnosis:\*\*   
 - Overreliance on AI default settings leading to non-target or irrelevant responses.  
 - Insufficient prompt refinement resulting in broader context responses.  
- \*\*Discussion:\*\* Speech patterns (e.g., filler words, wake word omissions) currently reduce the precision and effectiveness of AI responses. Adjustment in phrasing essential to improve AI interaction outcomes and real-time content accessibility.  
  
\*\*Plan:\*\*   
- \*\*Skill-Building Interventions:\*\*  
 - Practice constructing precise Gemini prompts using available visual templates with emphasis on context-specific accuracy.  
 - Extend assignments to include comprehensive use of Alexa’s voice recognition for structured queries in interactive sessions.  
 - Introduce a 2-minute timer exercise to streamline prompt reflection, minimizing filler articulations.  
- \*\*Therapeutic Goals:\*\*  
 - Increase accuracy of Gemini-generated speech outcomes by 20% within 4 weeks through guided practice.  
 - Achieve an 80% reduction in filler words during AI-assisted tasks by the ensuing monthly review.  
- \*\*Client Education:\*\*   
 - Demonstrate Gemini’s ‘visual output’ feature to enhance response specificity.  
 - Provide R.T. with a checklist to refine prompts, ensuring the inclusion of contextual elements and purpose-driven language.  
  
\*\*Issues of Concern:\*\*   
- Challenges exist in the client’s propensity to default to AI’s generic settings, demanding manual oversight for accurate content delivery.  
- Necessity to instruct client on critical evaluation techniques, recommending primary data verification against AI outputs for content integrity.  
  
\*\*Clinical Significance:\*\*   
- Successful integration of AI tools directly enhances therapeutic speech outcomes; comprehension and specificity of Gemini prompts are critical factors in task completion speed, showing a 15% reduction in media search time post-intervention. This note serves as a dynamic record of ongoing AI-assisted progress and not as static data.   
  
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\*\*Signature:\*\*   
[SLP's Name]   
Speech-Language Pathologist