**Section 1: Tool Selection**

Ryan Fitzpatrick is a 27-year old male with moderate to severe deficits in sustained and selective attention and prospective and short-term memory secondary to severe traumatic brain injury (TBI) sustained in combat in Afghanistan May 2017. Ryan sustained a blast injury when his Humvee was struck by an IED resulting in a fractured right tibia, femur, and ulna as well as a penetrating skull fracture. Ryan reports he experienced loss of consciousness for 45 minutes and resulting post traumatic amnesia (PTA) for 10 days. Ryan returned from combat with diagnosed PTSD and generalized anxiety. He receives psychological intervention including mental health counseling and prescribed anti-depressants. Ryan additionally continues to receive physical therapy to improve left leg and arm strength, mobility, and range of motion.

Ryan has received speech therapy services since November 2017. Performance on the Repeatable Battery for the Assessment of Neuropsychological Status Update (RBANS) administered 11/6/17 indicated moderate to severe deficits in working memory, characterized by poor performance on subtests of story memory, list recall, and list recognition. The Test of Everyday Attention administered 11/5/17 additionally identified deficits in both selective and sustained attention. Motivational interview conducted between Ryan, his wife, and clinician revealed that one of Ryan’s most consistent difficulties is keeping a schedule for his appointments and remembering to attend his appointments. In collaboration with Ryan, the iPhone calendar app has been selected to assist with scheduling and remembering his appointments, in which Ryan will master the steps of placing his appointments into his phone with the appropriate date, time, location, and two reminders (24 hours prior to appointment and 2 hours prior to appointment). The app review detailed below in Table 1 describes the implementation of the calendar app for scheduling and keeping his appointments.

External Aid: Calendar app for iPhone

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| Primary Function | Requisite Skills | Short-Term Goal | Long-Term Goal |
| Schedule and attend appointments | - Enter event into calendar with appropriate date, time, and location  - Set two reminders for appointment | Ryan will demonstrate ability to follow steps to make 3 appointments in calendar app with 85% accuracy given verbal and visual prompts | Ryan will independently complete steps to accurately schedule appointments with accurate information |

**Long-Term Goal 1**: Ryan will independently complete steps to schedule 6/8 weekly appointments in his iPhone calendar app with accurate date, time, location, and two reminders.

**Long-Term Goal** 2: Ryan will attend 6/8 weekly scheduled appointments as measured by patient and spouse report.

**Initial Acquisition Objectives**: Ryan will follow steps to schedule appointments in his iPhone app for 4/5 weekly appointments given minimum to moderate assistance.

**Task Analysis for Scheduling Appointments**:

1. Identify calendar app on iPhone screen
2. Press red arrow in top right corner of the calendar app
3. Type in title of the scheduled event
4. Type in location of the scheduled event
5. Type in the start time for the appointment
6. Type in the end time for the appointment
7. Press “Alert” button and select “1 day before”
8. Press “Second Alert” button and select “2 hours before”
9. Press “add” button at top right corner of screen to complete creating the scheduled event

Therapy frequency: 2/week

Therapy duration: 50 minutes

Therapy duration: 6 weeks

**Section 2: Goal Attainment Scaling**

*Utilize references to briefly describe the benefits of GAS. Bullet points are encouraged.*

**GAS Goal 1**: Ryan will independently complete steps to schedule 6/8 weekly appointments in his iPhone calendar app with accurate date, time, location, and two reminders.

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| **Level of Attainment** | **Goal 1**: Ryan will complete steps to accurately schedule appointments in his iPhone |
| Much more than expected  +2 | I will complete steps to schedule 8 weekly appointments in my iPhone calendar app with accurate date, time, location, and two reminders |
| Somewhat more than expected  +1 | I will complete steps to schedule 7 weekly appointments in my iPhone calendar app with accurate date, time, location, and two reminders |
| Expected level of outcome  0 | I will complete steps to schedule 6 weekly appointments in my iPhone calendar app with accurate date, time, location, and two reminders |
| Somewhat less than expected  -1 | I will complete steps to schedule 5 weekly appointments in my iPhone calendar app with accurate date, time, location, and two reminders |
| Much less than expected  -2 | I will complete steps to schedule 4 weekly appointments in my iPhone calendar app with accurate date, time, location, and two reminders |

**Section 3: Data Sheets**

*Insert data sheets and provide interpretation of performance.*

**Section 4: Video Description**

The video provided displays the clinician working with Ryan during Session 2. The session begins by probing Ryan for his knowledge of the steps in his task analysis to place appointments into his iPhone calendar. Since Ryan struggled on the steps of adding the start and end time of the appointments during Session 1, those steps were isolated during Session 2 and targeted utilizing massed practice. Finally, distributed practice was applied at the end of the session to demonstrate ability to complete all steps to schedule his next speech therapy appointment into his iPhone calendar app.

Reference:

Grant, M., & Ponsford, J. (2014). Goal Attainment Scaling in brain injury rehabilitation: Strengths, limitations and recommendations for future applications. *Neuropsychological Rehabilitation*, *24*(5), 661–667. https://doi.org/10.1080/09602011.2014.901228

**Appendix A**: Task Analysis for Scheduling Appointments

1. Identify calendar app on iPhone screen
2. Press red arrow in top right corner of the calendar app
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5. Type in the start time for the appointment
6. Type in the end time for the appointment
7. Press “Alert” button and select “1 day before”
8. Press “Second Alert” button and select “2 hours before”
9. Press “add” button at top right corner of screen to complete creating the scheduled event