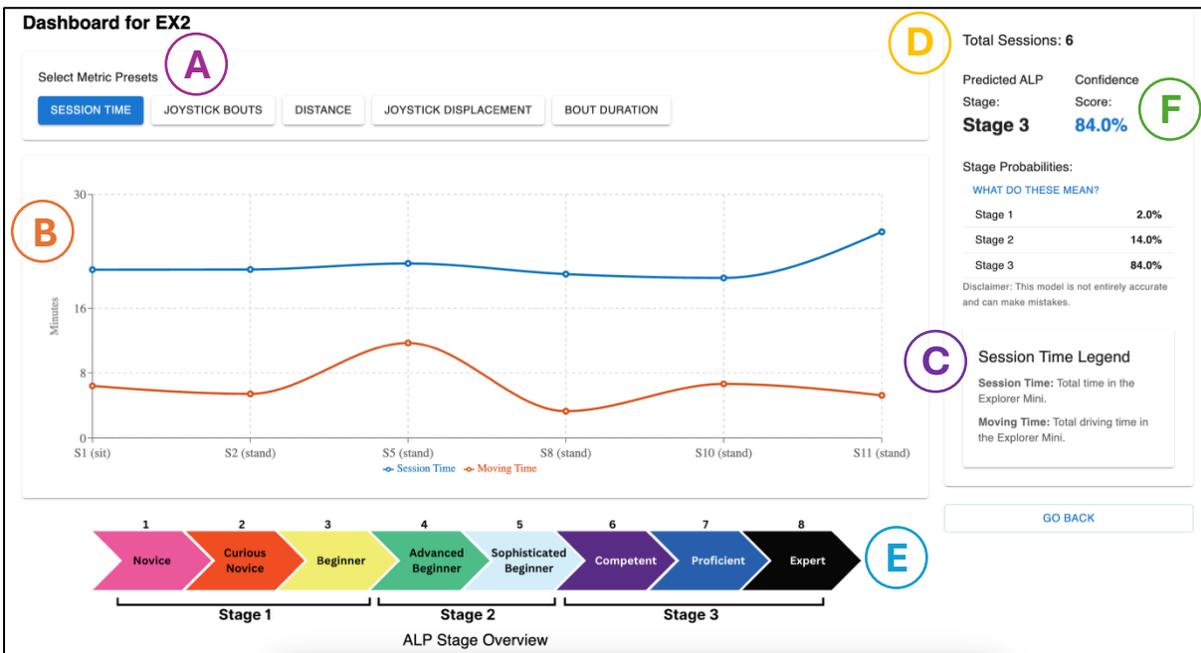


5.3. Example *Dashboard* page for patient EX2:

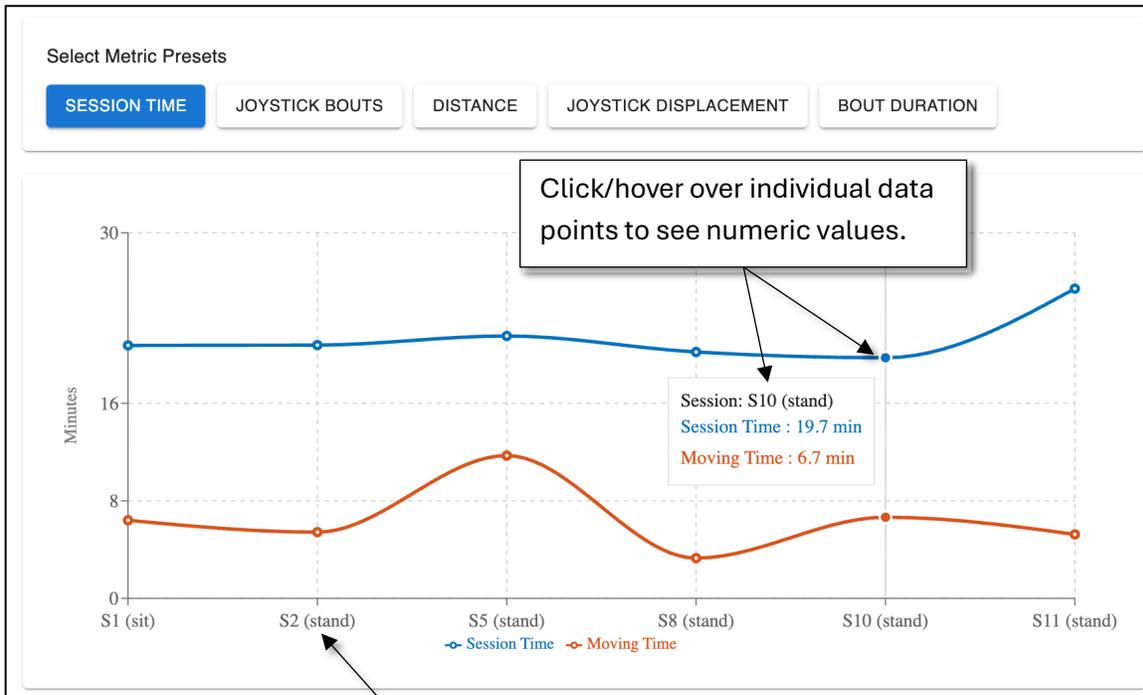


LEGEND

- A** – Buttons that populate the graph with preset quantitative metrics
- B** – Interactive graph of metrics over time
- C** – Legend for whichever quantitative metrics are displayed
- D** – Total number of sessions recorded for this patient
- E** – Visual representation of the Assessment for Learning Powered Mobility (ALP) tool (see Appendix I for more detail)
- F** – Prediction of patient’s ALP stage based on quantitative data

5.4. Click on each of the buttons at the top of the screen to display different groups of quantitative metrics. When you click on a button, a legend will appear that describes each of the metrics in more detail. The following steps will describe each metric.

5.5. Button #1: Session Time



X-axis shows session numbers (S1, S2, etc.). Posture for that session (sit or stand) is shown in the parentheses.

- **Session Time:** Total time in the Explorer Mini (minutes). This is the total duration of time from when the Record button on the Explorer Mini is toggled ON to when it is toggled OFF.
- **Moving Time:** Total driving time in the Explorer Mini (minutes). This is the amount of time the device is in motion.

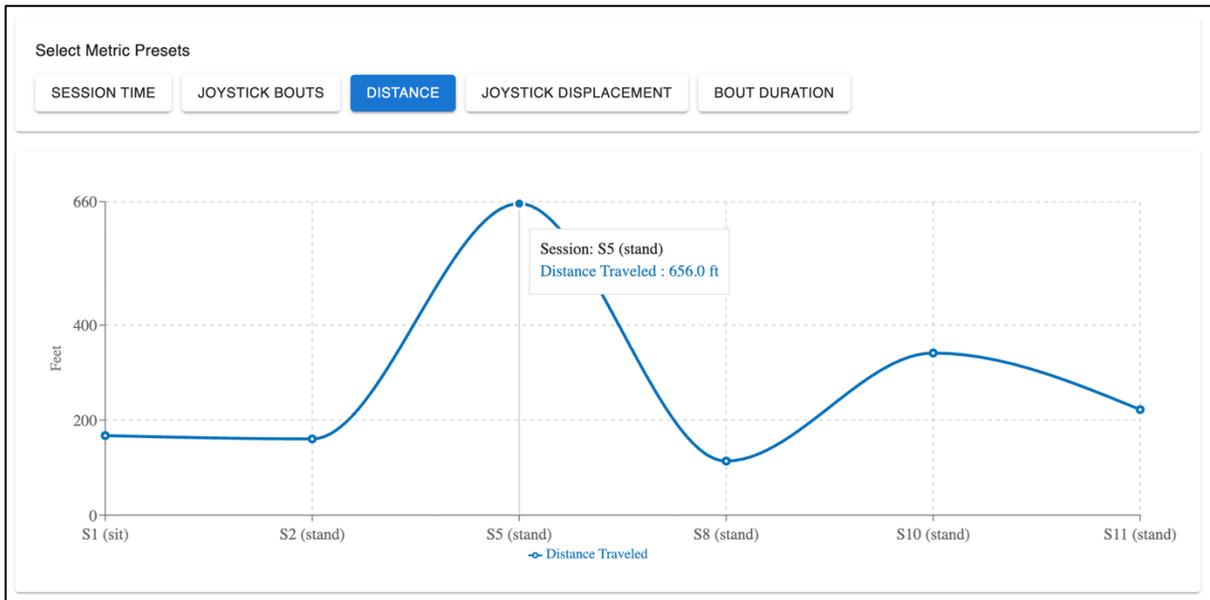
5.6. Button #2: Joystick Bouts



What is a joystick bout? A joystick bout is the period of time during which the joystick is moved away from a neutral position and then returned to a neutral position.

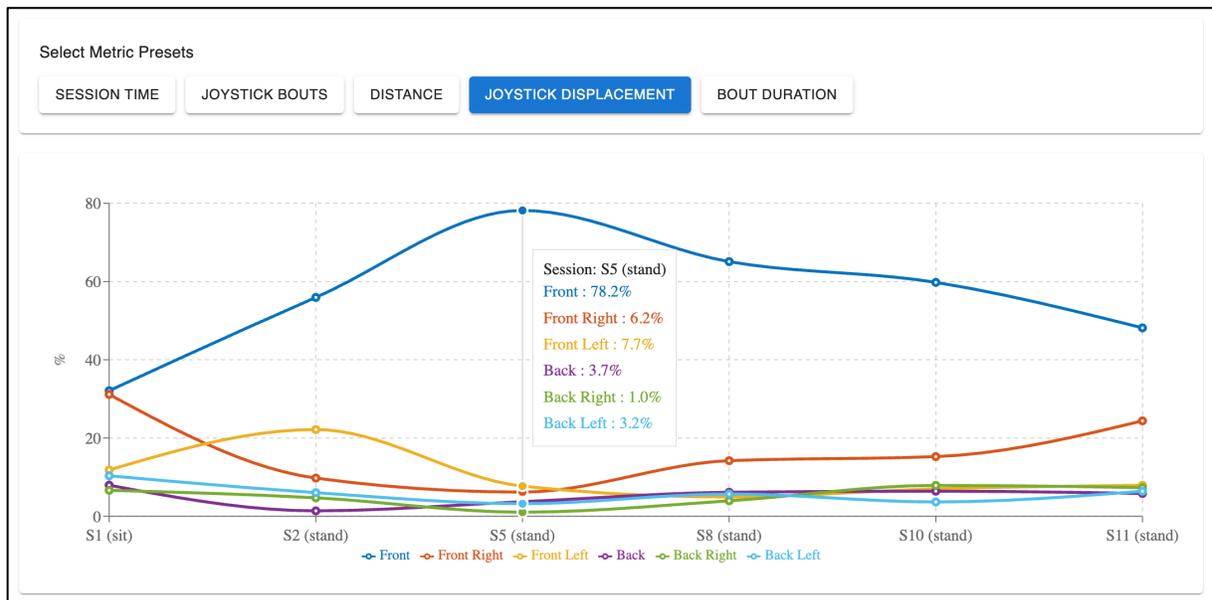
- **Joystick Bouts:** The total number of joystick activations and attempts. This is the total number of times the child interacted with the joystick.
- **Joystick Activations:** The number of joystick bouts that resulted in device movement.
- **Joystick Attempts:** The number of joystick bouts that did not result in device movement.

5.7. Button #3: Distance

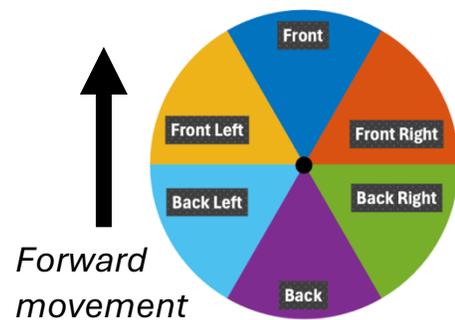


- **Distance:** Total distance traveled by the Explorer Mini during the session (feet). Forward, backward, and turning movements all count towards distance traveled.

5.8. Button #4: Joystick Displacement



- The joystick has been broken up into 6 pie slices corresponding to different directions (front, front left, front right, back, back left, and back right).
- Each line on the graph corresponds to the percent of time the joystick was used in each of these directions (%).



5.9. Button #5: Bout Duration



What is a joystick bout? A joystick bout is the period of time during which the joystick is moved away from a neutral position and then returned to a neutral position.

- **Mean Bout Duration:** Average length of all joystick bouts in the recorded session (seconds).
- **Maximum Bout Duration:** Longest joystick bout in the recorded session (seconds).

5.10. ALP Stage Prediction

Predicted ALP Stage:	Confidence Score:
Stage 3	84.0%

Stage Probabilities:

[WHAT DO THESE MEAN?](#)

Stage	Probability
Stage 1	2.0%
Stage 2	14.0%
Stage 3	84.0%

Disclaimer: This model is not entirely accurate and can make mistakes.

Click WHAT DO THESE MEAN? to expand.

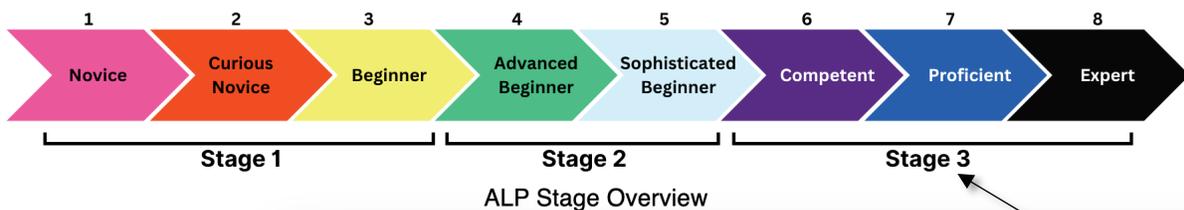
Predicted ALP Stage:	Confidence Score:
Stage 3	84.0%

Stage Probabilities: [HIDE INFO](#)

- **Stage 1:** Exploring Function, focus on body and device (Phases 1–3)
- **Stage 2:** Exploring Sequence, focus on body, device, and environment (Phases 4–5)
- **Stage 3:** Exploring Performance, focus on body, device, environment, and activity (Phases 6–8)

Stage	Probability
Stage 1	2.0%
Stage 2	14.0%
Stage 3	84.0%

Disclaimer: This model is not entirely accurate and can make mistakes.



ALP Stages (1-3) are depicted graphically with nested Phases (1-8) for context.

- The Assessment of Learning Powered Mobility (ALP) tool (described in detail in Appendix I) can help guide appropriate facilitating strategies for children based on their learning stage.
- The app generates a personalized prediction of a child’s current ALP learning stage using all the quantitative data recorded for that child to date.
- The confidence score can help you understand when a child is between learning phases.

5.11. Click **GO BACK** on the *Dashboard* page to return to *Home* page.

Dashboard for EX2

Select Metric Presets

SESSION TIME JOYSTICK BOUTS DISTANCE JOYSTICK DISPLACEMENT BOUT DURATION

Total Sessions: 6

Predicted ALP Stage: **Stage 3** Confidence Score: **84.0%**

Stage Probabilities:

WHAT DO THESE MEAN?

Stage 1	2.0%
Stage 2	14.0%
Stage 3	84.0%

Disclaimer: This model is not entirely accurate and can make mistakes.

Session Time Legend

Session Time: Total time in the Explorer Mini.
Moving Time: Total driving time in the Explorer Mini.

Stage	Session Time (Minutes)	Moving Time (Minutes)
S1 (sit)	18	6
S2 (stand)	18	6
S5 (stand)	19	12
S8 (stand)	18	4
S10 (stand)	18	7
S11 (stand)	25	6

ALP Stage Overview

1 Novice 2 Curious Novice 3 Beginner 4 Advanced Beginner 5 Sophisticated Beginner 6 Competent 7 Proficient 8 Expert

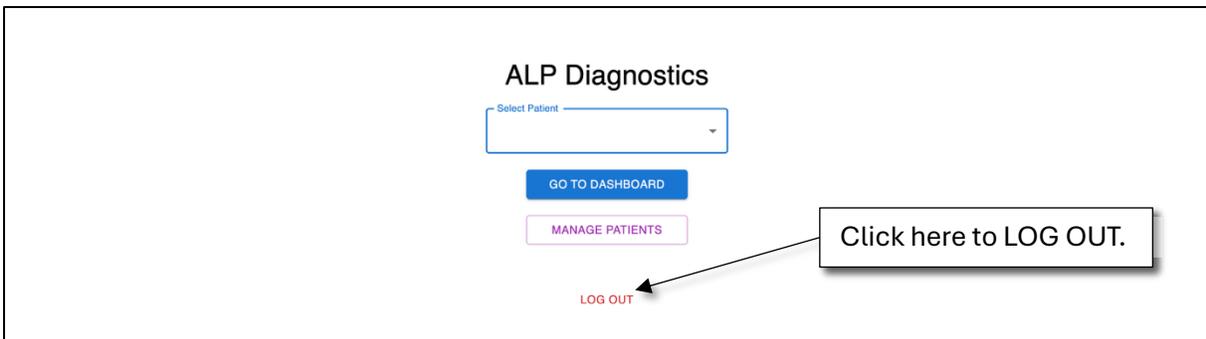
Stage 1 Stage 2 Stage 3

GO BACK

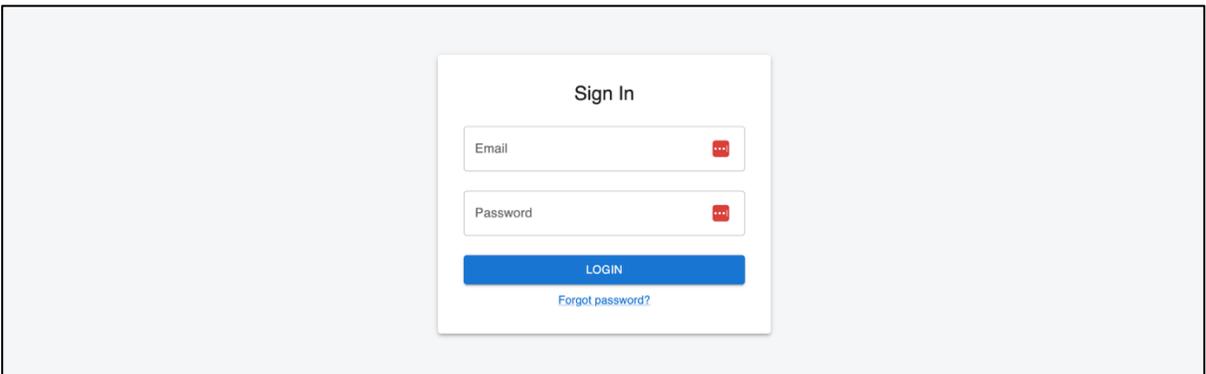
Click here to return to Home page.

SECTION 6: Logging out of the app

- 6.1. If you wish to log out of the app (optional), click **LOG OUT** from the *Home* screen.



- 6.2. You will be returned to the *Login* page.



APPENDIX I: The ALP Tool

ALP Overview

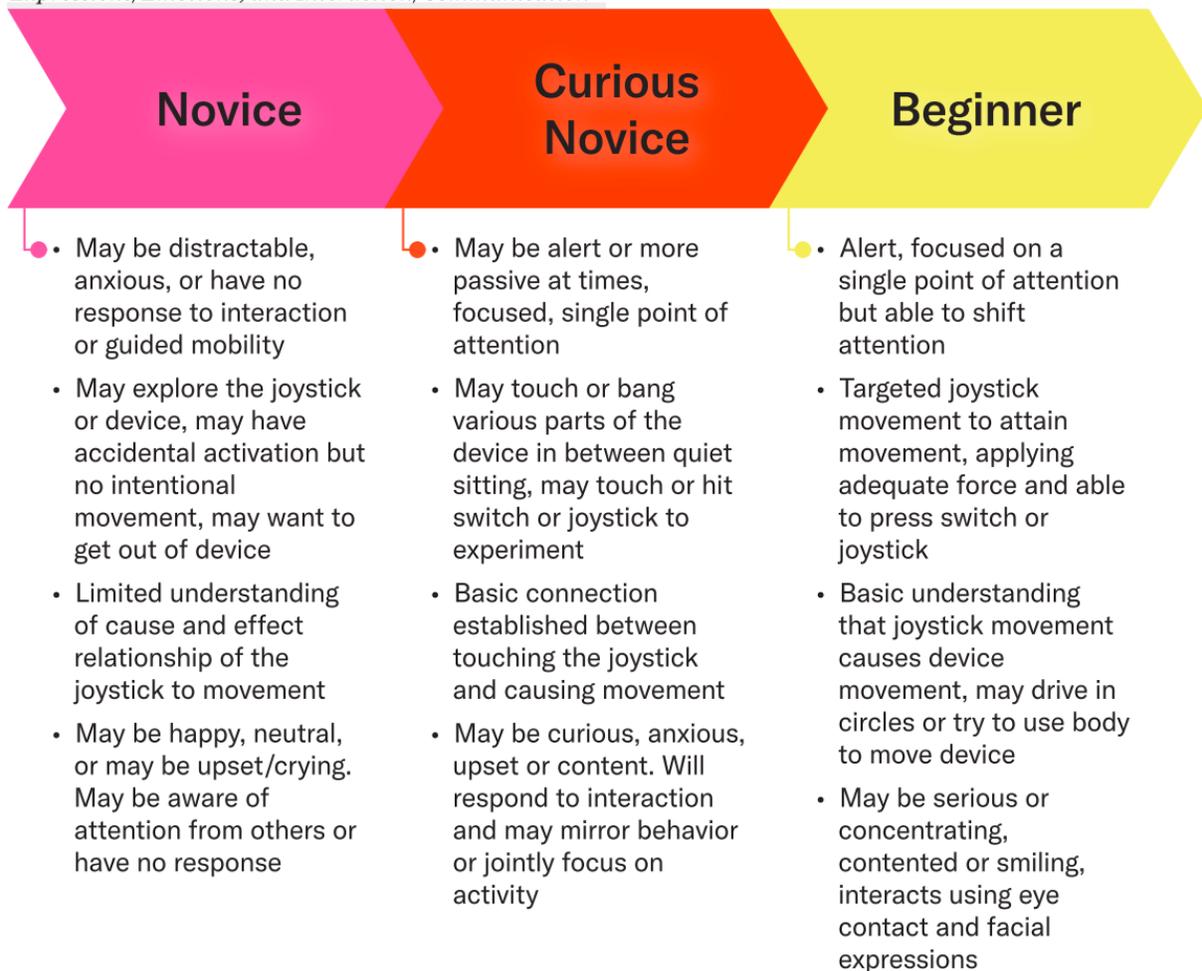
The following information is taken from “A Guideline for Introducing Powered Mobility to Infants and Toddlers” by Feldner, Plummer, and Hendry (2022). It is provided to give you more context for each of the Assessment of Learning Powered Mobility (ALP) Phases (1-9) and Stages (1-3).

Stage 1 (Phases 1-3): Exploring Function

Stages

Exploring Function, focus on body and device

Phases of Attention, Activity, Understanding of Tool Use, Expressions/Emotions, and Interaction/Communication



Stage 2 (Phases 4-5): Exploring Sequence

Stages

Exploring Sequence, focus on body, device, and environment

Phases of Attention, Activity, Understanding of Tool Use, Expressions/Emotions, and Interaction/Communication

Advanced Beginner

- Attentive but can shift attentionspontaneously
- Intentional exploration of joystick and its functions for movement, movements may be cautious or careful
- Aware of movement in different directions, exploring cause and effect of joystick activation or multiple switches in different ways
- Shows desire to explore environment, may smile and laugh or be serious, engages peer or adult in exploration

Sophisticated Beginner

- Attention focused on two different points, focused and active
- Exploring and experiementing with device and directional movements, may be more eager or a ressive with joystick
- Understands different effects of joystick moving in different directions, understands add-on guidance systems if applied
- May show frustration or eagerness and smiling given developing abilities. May show reciprocal interaction with people and environment

Stage 3 (Phases 6-9): Exploring Performance

Stages

Exploring Performance, focus on body, device, environment, and activity

Phases of Attention, Activity, Understanding of Tool Use, Expressions/Emotions, and Interaction/Communication



Official ALP Instrument

Nilsson & Durkin's official ALP instrument by and corresponding facilitating strategies may be found at:

https://www.lisbethnilsson.se/wp-content/uploads/2015/08/ALP_tool.pdf