

Neurocub — Clinical Report v1.3

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| | | | |
|------------|-----------------------------|-------------------|-------------------------|
| PATIENT ID | 002 | COMPLETION REASON | questions_limit_reached |
| SESSION ID | session_2026-03-01T16-24-22 | TASKS PRESENTED | 20 |
| START TIME | 2026-03-01 16:24:22 | FAST CORRECT | 12 |
| END TIME | 2026-03-01 16:25:34 | SLOW/INCORRECT | 8 |
| DURATION | 1:11 | LEVEL TRANSITIONS | 2 |

Adaptive Difficulty Controller v1 Report

1 Initial level **3** Final level **2** Level Increases

Time spent per level

Level 1 — 3 questions | 4.7 s
Level 2 — 3 questions | 4.8 s
Level 3 — 14 questions | 40.7 s

Transition adaptation

Adaptation after L1 → L2: +0.14 s (Stable transition)
Adaptation after L2 → L3: -0.11 s (Stable transition)

Longest streak per level

Level 1: 3 consecutive correct
Level 2: 3 consecutive correct
Level 3: 7 consecutive correct

Stability on new level

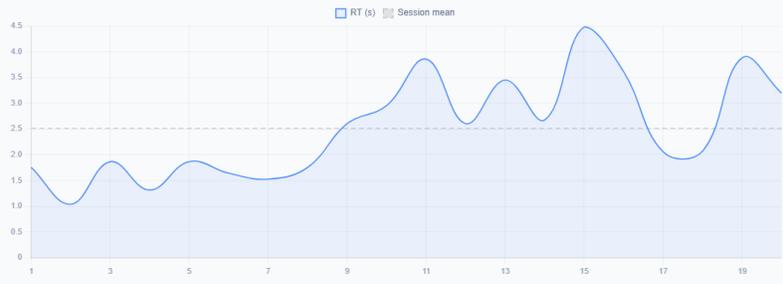
Stability after L2 entry: 0.23 s (stable)
Stability after L3 entry: 0.46 s (stable)

Transitions

Q3: L1 → L2 — 3 consecutive fast correct answers

Q6: L2 → L3 — 3 consecutive fast correct answers

Reaction Time Timeline



Performance Metrics Summary

2.51 s

Average RT

2.34 s

Median RT

85%

Accuracy

12

Fast correct

5

Slow correct

3

Total errors

15.0%

Error rate

0.95 s

Stability SD

6.8%

RT skew index

+103%

RT drift
Intra-session trend

Advanced Clinical Analytics

High variability

Cognitive stability

Moderate decline

Performance trend

High

Engagement level

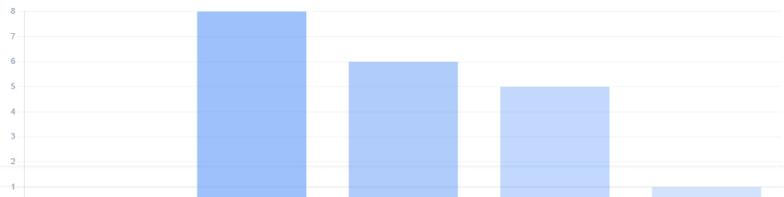
High

Fatigue likelihood

Block Performance Analysis

| Segment | Avg RT | Errors | Accuracy % |
|--------------|--------|--------|------------|
| First third | 1.58 s | 0 | 100% |
| Middle third | 2.55 s | 2 | 67% |
| Last third | 3.18 s | 1 | 88% |

Reaction Time Distribution



Difficulty Tolerance

Average level during session: 2.5
 Fast responses (<3s): 70% Slow responses (≥3s): 30%
 Maximum sustained level: 3
 Longest sustained streak: 14 questions
 Total level transitions: 2
 Drop-back detected: No
 Level distribution summary: Level 1: 3 questions; Level 2: 3 questions; Level 3: 14 questions

Previous Session Comparison

Compared to previous session

+0.44 s (+21%)
Avg RT change

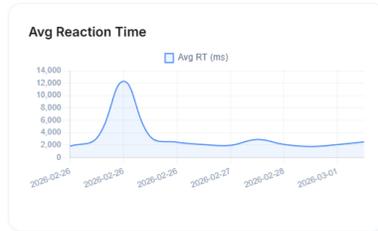
+1.7%
Accuracy change

+1
Max level change

+1
Errors change

Reaction time slower compared to previous session. Accuracy improved.

Longitudinal (last 20 sessions)



Question log

| # | Level | RT (ms) | Correct | Images | Response |
|----|-------|---------|---------|--------|-----------|
| 1 | L1 | 1757 | ✓ | | Fast |
| 2 | L1 | 1040 | ✓ | | Fast |
| 3 | L1 | 1865 | ✓ | | Fast |
| 4 | L2 | 1315 | ✓ | | Fast |
| 5 | L2 | 1867 | ✓ | | Fast |
| 6 | L2 | 1643 | ✓ | | Fast |
| 7 | L3 | 1527 | ✓ | | Fast |
| 8 | L3 | 1755 | X | | Incorrect |
| 9 | L3 | 2606 | ✓ | | Fast |
| 10 | L3 | 2955 | X | | Incorrect |
| 11 | L3 | 3856 | ✓ | | Slow |
| 12 | L3 | 2605 | ✓ | | Fast |
| 13 | L3 | 3450 | X | | Incorrect |

| | | | | | |
|----|----|------|---|---|------|
| 14 | L3 | 2677 | ✓ |    | Fast |
| 15 | L3 | 4481 | ✓ |    | Slow |
| 16 | L3 | 3610 | ✓ |    | Slow |
| 17 | L3 | 2057 | ✓ |    | Fast |
| 18 | L3 | 2074 | ✓ |    | Fast |
| 19 | L3 | 3883 | ✓ |    | Slow |
| 20 | L3 | 3195 | ✓ |    | Slow |

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