

Adilabs Screens - Patient Overview Prompt Pack

Date: 2026-01-10

What this document contains

This pack is intended to be pasted into bolt.new to generate the Phase 1 app. It includes (1) a full development prompt, (2) a setup/config file to control SQL/API/tile mappings, and (3) mock API responses for two patients (PAT-123 and PAT-456).

Flows included (visible in UI)

- Patient Overview (enabled)
- Real-time Monitoring (disabled placeholder)
- Functional Assessment (disabled placeholder)
- Biomarkers (disabled placeholder)
- Multi - Omics (disabled placeholder)
- Gen AI Playground (disabled placeholder)
- Light Mode - Functional Assessment (disabled placeholder)
- Dynamic Dashboard (disabled placeholder)
- Disease Progression (disabled placeholder)
- Cohort analysis (disabled placeholder)

1. bolt.new development prompt

Paste the prompt below into bolt.new. It builds only Patient Overview fully, keeps all other flows visible but disabled, and implements doctor login with Google OAuth and Email magic link.

```
Build a web app called "Adilabs Screens" (dark mode clinical dashboard).
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```
GOAL (Phase 1):
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Only implement the "Patient Overview" screen end-to-end.
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All other flows must be visible in the left menu but disabled/placeholders.
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```
TECH STACK:
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- Next.js (App Router) + TypeScript
- TailwindCSS (dark theme)
- NextAuth.js for authentication:
 - Google OAuth login (doctor signs in with Google email)
 - Email magic link login (for non-Google accounts)
 - Optional: Credentials provider (email + password) can be added later
- Config-driven data layer (SQL mapping + API mapping + tiles)

```
AUTH REQUIREMENTS:
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- Implement login screen.
- Doctors can login using:
 - 1) Google account (OAuth)
 - 2) Email magic link (SMTP based)
- After login, route to /patients/overview.
- Protect all routes except /auth/*.

```
ENV VARS (placeholders):
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- NEXTAUTH_URL
- NEXTAUTH_SECRET
- GOOGLE_CLIENT_ID

- GOOGLE_CLIENT_SECRET
- EMAIL_SERVER (SMTP connection string)
- EMAIL_FROM

APP LAYOUT:

1) Top bar:

- App title "Adilabs Screens"
- Global search input (UI only)
- "Filters" button (UI only)

2) Left sidebar "Flows":

Show these flows exactly in this order:

- Patient Overview (enabled, default selected)
- Real-time Monitoring (disabled placeholder)
- Functional Assessment (disabled placeholder)
- Biomarkers (disabled placeholder)
- Multi - Omics (disabled placeholder)
- Gen AI Playground (disabled placeholder)
- Light Mode - Functional Assessment (disabled placeholder)
- Dynamic Dashboard (disabled placeholder)
- Disease Progression (disabled placeholder)
- Cohort analysis (disabled placeholder)

Disabled behavior:

- Visually dimmed and not navigable OR navigable to a "Coming soon" placeholder page.

PATIENT SELECTION:

- Patient Overview page includes a patient selector dropdown.
- At least two patients in mock mode: PAT-123 and PAT-456.
- On change, reload header + AI summary + tile data.

CONFIG-DRIVEN ARCHITECTURE (must):

- Do NOT hardcode table names, column names, endpoints, or tile lists inside components.
- Read all of the below from /config/patient_overview.setup.json:
 - mode: mock or live
 - SQL mapping: patient table name and column mapping
 - API endpoint mapping (mock now)
 - Tiles grouping + per-tile endpoint references

DATA RESOLUTION:

- In mock mode:
 - patient header data comes from an in-app mock patient list
 - AI summary + tile responses come from /mocks/mock_responses.json
- In live mode:
 - keep the same interface but leave SQL execution and fetch calls as TODO stubs

PATIENT OVERVIEW UI:

Header Row:

1) Patient Identity Card (left):

- photo/avatar (optional)
 - Name
 - Gender badge
 - DOB and Age display
 - Diagnosis
 - Risk badge (e.g., "High Risk")
- All from patient table mapping.

2) AI Summary (center):

- Title "AI Summary"
- Body text from API endpoint configured in setup file (mock now)

3) Metadata fields (right):

- Diagnosis Date
 - Mutation Type
 - Ambulation Status
 - Current Therapy
 - Care Team
 - Test Type
- All from patient table mapping.

Tiles Area:

Render a responsive grid of tiles grouped into:

- A) Functional Scores Summary: NSAA, 6MWT, Timed Up and Go, Sit to Stand
- B) Pulmonary Function Summary: FVC, Peak Expiratory Flow, Respiration Rate (Rest), SpO2 (At Rest)
- C) Biomarker Trends: CK, ALT, AST
- D) Therapy Response: Steroid, Gene Therapy

TILE SCHEMAS:

- metric_standard_v1:
 - baseline, cohort, average, current, timeline, trend, alerts
- therapy_response_v1:
 - therapy_name, status, start_date, dose (optional), response_summary, signals[], alerts

UX:

- Dark mode styling similar to the provided screenshots.
- Loading skeletons and per-tile error state if mock response missing.

DELIVERABLE:

A working app where:

- Login works (Google + Email magic link)
- Patient Overview is fully functional in mock mode
- All flows are visible but disabled placeholders

2. Setup file

Save the JSON below as /config/patient_overview.setup.json. Edit this file to change table names, column mappings, endpoints, or tile lists without changing UI code.

```
{
  "version": "1.0",
  "screen": "patient_overview",
  "mode": {
    "data_mode": "mock"
  },
  "sql": {
    "connection_key": "primary_db",
    "patient_lookup": {
      "request_param": "patient_id"
    },
    "tables": {
      "patient_table": {
        "name": "PATIENT",
        "alias": "p",
        "primary_key": "patient_id"
      }
    },
    "mappings": {
      "patient_header": {
        "patient_id": "patient_id",
        "name": "patient_name",
        "gender": "gender",
        "date_of_birth": "date_of_birth",
        "diagnosis": "primary_diagnosis",
        "risk_level": "risk_level",
        "diagnosis_date": "diagnosis_date",
        "mutation_type": "mutation_type",
        "ambulatory_status": "ambulatory_status",
        "current_therapy": "current_therapy",
        "care_team": "care_team",
        "test_type": "test_type",
        "profile_photo_url": "profile_photo_url"
      }
    },
    "apis": {
      "base_url": "http://localhost:3000",
      "endpoints": {
        "ai_summary": {
          "method": "GET",
          "path": "/api/v1/patients/{patient_id}/ai-summary",
          "response_schema": "ai_summary_v1"
        }
      }
    },
    "tiles": {
      "layout": {
        "grid": {
          "min_tile_width_px": 360,
          "gap_px": 16
        }
      },
      "groups": [
        {
          "group_id": "functional_scores_summary",
          "title": "Functional Scores Summary",
          "order": 1
        },
        {
          "group_id": "pulmonary_function_summary",
          "title": "Pulmonary Function Summary",
          "order": 2
        }
      ]
    }
  }
}
```

```

{
  "group_id": "biomarker_trends",
  "title": "Biomarker Trends",
  "order": 3
},
{
  "group_id": "therapy_response",
  "title": "Therapy Response",
  "order": 4
}
],
"tile_endpoints": {
  "tile_nsaa": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/nsaa"
  },
  "tile_6mwt": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/6mwt"
  },
  "tile_tug": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/tug"
  },
  "tile_sit_to_stand": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/sit-to-stand"
  },
  "tile_fvc": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/fvc"
  },
  "tile_pef": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/pef"
  },
  "tile_rr_rest": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/respiration-rate-rest"
  },
  "tile_spo2_rest": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/spo2-rest"
  },
  "tile_ck": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/ck"
  },
  "tile_alt": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/alt"
  },
  "tile_ast": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/metrics/ast"
  },
  "tile_therapy_steroid": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/therapy/steroid/response"
  },
  "tile_therapy_gene": {
    "method": "GET",
    "path": "/api/v1/patients/{patient_id}/therapy/gene/response"
  }
},
"items": [
  {
    "tile_id": "nsaa",
    "group_id": "functional_scores_summary",
    "title": "NSAA",

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```

    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_nsaa"
  },
  {
    "tile_id": "6mwt",
    "group_id": "functional_scores_summary",
    "title": "6MWT",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_6mwt"
  },
  {
    "tile_id": "timed_up_and_go",
    "group_id": "functional_scores_summary",
    "title": "Timed Up and Go",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_tug"
  },
  {
    "tile_id": "sit_to_stand",
    "group_id": "functional_scores_summary",
    "title": "Sit to Stand",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_sit_to_stand"
  },
  {
    "tile_id": "fvc",
    "group_id": "pulmonary_function_summary",
    "title": "FVC",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_fvc"
  },
  {
    "tile_id": "peak_expiratory_flow",
    "group_id": "pulmonary_function_summary",
    "title": "Peak Expiratory Flow",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_pef"
  },
  {
    "tile_id": "respiration_rate_rest",
    "group_id": "pulmonary_function_summary",
    "title": "Respiration Rate (Rest)",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_rr_rest"
  },
  {
    "tile_id": "spo2_rest",
    "group_id": "pulmonary_function_summary",
    "title": "SpO2 (At Rest)",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_spo2_rest"
  },
  {
    "tile_id": "ck",
    "group_id": "biomarker_trends",
    "title": "CK",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_ck"
  },
  {
    "tile_id": "alt",
    "group_id": "biomarker_trends",
    "title": "ALT",
    "response_schema": "metric_standard_v1",
    "endpoint_ref": "tile_alt"
  },
  {
    "tile_id": "ast",
    "group_id": "biomarker_trends",
    "title": "AST",

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```

        "response_schema": "metric_standard_v1",
        "endpoint_ref": "tile_ast"
    },
    {
        "tile_id": "therapy_steroid",
        "group_id": "therapy_response",
        "title": "Steroid",
        "response_schema": "therapy_response_v1",
        "endpoint_ref": "tile_therapy_steroid"
    },
    {
        "tile_id": "therapy_gene",
        "group_id": "therapy_response",
        "title": "Gene Therapy",
        "response_schema": "therapy_response_v1",
        "endpoint_ref": "tile_therapy_gene"
    }
]
}
}

```

3. Mock responses

Save the JSON below as /mocks/mock_responses.json. In mock mode, the app returns these payloads based on request path. Two patients are included: PAT-123 and PAT-456.

```
{
  "/api/v1/patients/PAT-123/ai-summary": {
    "schema": "ai_summary_v1",
    "patient_id": "PAT-123",
    "summary": "Ethan Doe: mild functional change over 6 months. Monitor therapy response and labs.",
    "generated_at": "2026-01-10T20:55:00Z",
    "model": "llm_summary_v1",
    "confidence": 0.75
  },
  "/api/v1/patients/PAT-123/metrics/nsaa": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "nsaa",
    "title": "NSAA",
    "units": "score",
    "max_value": 34,
    "data": {
      "baseline": {
        "value": 15,
        "label": "15/34",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 17,
        "label": "17/34"
      },
      "average": {
        "value": 12,
        "label": "12/34"
      },
      "current": {
        "value": 17,
        "label": "17/34",
        "recorded_at": "2025-06-27"
      },
      "timeline": {
        "start": "2025-01-02",
        "end": "2025-06-27",
        "label": "2025-01-02 to 2025-06-27"
      },
      "trend": {
        "direction": "up",
        "delta": 2,
        "delta_label": "+2 vs baseline"
      }
    }
  },
  "alerts": {
    "status": "none",
    "reasons": []
  }
},
  "/api/v1/patients/PAT-123/metrics/6mwt": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "6mwt",
    "title": "6MWT",
    "units": "m",
    "max_value": null,
    "data": {
      "baseline": {
        "value": 250,
        "label": "250m",
        "recorded_at": "2025-01-02"
      }
    }
  },
```



```

    "cohort": {
      "value": 290,
      "label": "290m"
    },
    "average": {
      "value": 215,
      "label": "215m"
    },
    "current": {
      "value": 285,
      "label": "285m",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "up",
      "delta": 35,
      "delta_label": "+35m vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "Verify test conditions"
    ]
  }
},
"/api/v1/patients/PAT-123/metrics/tug": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-123",
  "metric_key": "tug",
  "title": "Timed Up and Go",
  "units": "s",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 8.9,
      "label": "8.9s",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 7.8,
      "label": "7.8s"
    },
    "average": {
      "value": 9.6,
      "label": "9.6s"
    },
    "current": {
      "value": 10.4,
      "label": "10.4s",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "down",
      "delta": 1.5,
      "delta_label": "+1.5s slower vs baseline"
    }
  }
},
"alerts": {
  "status": "critical",

```

```

      "reasons": [
        "TUG worsening beyond threshold"
      ]
    },
  },
  "/api/v1/patients/PAT-123/metrics/sit-to-stand": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "sit_to_stand",
    "title": "Sit to Stand",
    "units": "s",
    "max_value": null,
    "data": {
      "baseline": {
        "value": 12.0,
        "label": "12.0s",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 10.9,
        "label": "10.9s"
      },
      "average": {
        "value": 13.1,
        "label": "13.1s"
      },
      "current": {
        "value": 14.6,
        "label": "14.6s",
        "recorded_at": "2025-06-27"
      },
      "timeline": {
        "start": "2025-01-02",
        "end": "2025-06-27",
        "label": "2025-01-02 to 2025-06-27"
      },
      "trend": {
        "direction": "down",
        "delta": 2.6,
        "delta_label": "+2.6s slower vs baseline"
      }
    },
    "alerts": {
      "status": "warning",
      "reasons": [
        "Lower-limb decline signal"
      ]
    }
  },
  "/api/v1/patients/PAT-123/metrics/fvc": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "fvc",
    "title": "FVC",
    "units": "L",
    "max_value": null,
    "data": {
      "baseline": {
        "value": 1.62,
        "label": "1.62 L",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 1.75,
        "label": "1.75 L"
      },
      "average": {
        "value": 1.58,
        "label": "1.58 L"
      }
    },
  },

```

```

    "current": {
      "value": 1.45,
      "label": "1.45 L",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "down",
      "delta": -0.17,
      "delta_label": "-0.17 L vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "Pulmonary decline"
    ]
  }
},
"/api/v1/patients/PAT-123/metrics/pef": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-123",
  "metric_key": "pef",
  "title": "Peak Expiratory Flow",
  "units": "L/min",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 230,
      "label": "230 L/min",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 245,
      "label": "245 L/min"
    },
    "average": {
      "value": 220,
      "label": "220 L/min"
    },
    "current": {
      "value": 210,
      "label": "210 L/min",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "down",
      "delta": -20,
      "delta_label": "-20 L/min vs baseline"
    }
  },
  "alerts": {
    "status": "none",
    "reasons": []
  }
},
"/api/v1/patients/PAT-123/metrics/respiration-rate-rest": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-123",
  "metric_key": "respiration_rate_rest",
  "title": "Respiration Rate (Rest)",

```

```

"units": "breaths/min",
"max_value": null,
"data": {
  "baseline": {
    "value": 18,
    "label": "18",
    "recorded_at": "2025-01-02"
  },
  "cohort": {
    "value": 16,
    "label": "16"
  },
  "average": {
    "value": 18,
    "label": "18"
  },
  "current": {
    "value": 20,
    "label": "20",
    "recorded_at": "2025-06-27"
  },
  "timeline": {
    "start": "2025-01-02",
    "end": "2025-06-27",
    "label": "2025-01-02 to 2025-06-27"
  },
  "trend": {
    "direction": "up",
    "delta": 2,
    "delta_label": "+2 vs baseline"
  }
},
>alerts": {
  "status": "none",
  "reasons": []
}
},
"/api/v1/patients/PAT-123/metrics/spo2-rest": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-123",
  "metric_key": "spo2_rest",
  "title": "SpO2 (At Rest)",
  "units": "%",
  "max_value": 100,
  "data": {
    "baseline": {
      "value": 98,
      "label": "98%",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 98,
      "label": "98%"
    },
    "average": {
      "value": 97,
      "label": "97%"
    },
    "current": {
      "value": 97,
      "label": "97%",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "stable",

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```

        "delta": -1,
        "delta_label": "-1% vs baseline"
    }
},
"alerts": {
    "status": "none",
    "reasons": []
}
},
"/api/v1/patients/PAT-123/metrics/ck": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "ck",
    "title": "CK",
    "units": "U/L",
    "max_value": null,
    "data": {
        "baseline": {
            "value": 5200,
            "label": "5200 U/L",
            "recorded_at": "2025-01-02"
        },
        "cohort": {
            "value": 4800,
            "label": "4800 U/L"
        },
        "average": {
            "value": 5100,
            "label": "5100 U/L"
        },
        "current": {
            "value": 6100,
            "label": "6100 U/L",
            "recorded_at": "2025-06-27"
        },
        "timeline": {
            "start": "2025-01-02",
            "end": "2025-06-27",
            "label": "2025-01-02 to 2025-06-27"
        },
        "trend": {
            "direction": "up",
            "delta": 900,
            "delta_label": "+900 U/L vs baseline"
        }
    },
    "alerts": {
        "status": "warning",
        "reasons": [
            "CK rising"
        ]
    }
},
"/api/v1/patients/PAT-123/metrics/alt": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-123",
    "metric_key": "alt",
    "title": "ALT",
    "units": "U/L",
    "max_value": null,
    "data": {
        "baseline": {
            "value": 35,
            "label": "35 U/L",
            "recorded_at": "2025-01-02"
        },
        "cohort": {
            "value": 32,
            "label": "32 U/L"
        }
    },

```

```

    "average": {
      "value": 34,
      "label": "34 U/L"
    },
    "current": {
      "value": 58,
      "label": "58 U/L",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "up",
      "delta": 23,
      "delta_label": "+23 U/L vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "ALT elevated"
    ]
  }
},
"/api/v1/patients/PAT-123/metrics/ast": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-123",
  "metric_key": "ast",
  "title": "AST",
  "units": "U/L",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 42,
      "label": "42 U/L",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 39,
      "label": "39 U/L"
    },
    "average": {
      "value": 41,
      "label": "41 U/L"
    },
    "current": {
      "value": 66,
      "label": "66 U/L",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "up",
      "delta": 24,
      "delta_label": "+24 U/L vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "AST elevated"
    ]
  }
}

```

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},
"/api/v1/patients/PAT-123/therapy/steroid/response": {
  "schema": "therapy_response_v1",
  "patient_id": "PAT-123",
  "therapy_key": "steroid_deflazacort",
  "therapy_name": "Steroid (Deflazacort)",
  "status": "active",
  "start_date": "2024-08-01",
  "dose": {
    "value": 0.9,
    "units": "mg/kg/day"
  },
  "response_summary": "Early stabilization; emerging lab side effects.",
  "signals": [
    {
      "type": "functional",
      "metric_key": "6mwt",
      "effect": "improved",
      "note": "+35m vs baseline"
    },
    {
      "type": "biomarker",
      "metric_key": "alt",
      "effect": "worsened",
      "note": "ALT rising"
    }
  ],
  "alerts": {
    "status": "warning",
    "reasons": [
      "Monitor liver enzymes"
    ]
  }
},
"/api/v1/patients/PAT-123/therapy/gene/response": {
  "schema": "therapy_response_v1",
  "patient_id": "PAT-123",
  "therapy_key": "gene_therapy_trial_a",
  "therapy_name": "Gene Therapy Trial A",
  "status": "active",
  "start_date": "2025-02-10",
  "dose": {
    "value": null,
    "units": null
  },
  "response_summary": "Positive functional signal; monitor durability.",
  "signals": [
    {
      "type": "functional",
      "metric_key": "nsaa",
      "effect": "improved",
      "note": "+2 vs baseline"
    },
    {
      "type": "pulmonary",
      "metric_key": "fvc",
      "effect": "declining",
      "note": "-0.17 L vs baseline"
    }
  ],
  "alerts": {
    "status": "none",
    "reasons": []
  }
},
"/api/v1/patients/PAT-456/ai-summary": {
  "schema": "ai_summary_v1",
  "patient_id": "PAT-456",
  "summary": "Ava Smith: stable mobility, mild pulmonary improvement. Biomarkers within expected range. Continue current regimen."
}

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    "generated_at": "2026-01-10T20:55:00Z",
    "model": "llm_summary_v1",
    "confidence": 0.75
  },
  "/api/v1/patients/PAT-456/metrics/nsaa": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-456",
    "metric_key": "nsaa",
    "title": "NSAA",
    "units": "score",
    "max_value": 34,
    "data": {
      "baseline": {
        "value": 15,
        "label": "15/34",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 17,
        "label": "17/34"
      },
      "average": {
        "value": 12,
        "label": "12/34"
      },
      "current": {
        "value": 20,
        "label": "20/34",
        "recorded_at": "2025-06-27"
      },
      "timeline": {
        "start": "2025-01-02",
        "end": "2025-06-27",
        "label": "2025-01-02 to 2025-06-27"
      },
      "trend": {
        "direction": "up",
        "delta": 5,
        "delta_label": "+5 vs baseline"
      }
    },
    "alerts": {
      "status": "none",
      "reasons": []
    }
  },
  "/api/v1/patients/PAT-456/metrics/6mwt": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-456",
    "metric_key": "6mwt",
    "title": "6MWT",
    "units": "m",
    "max_value": null,
    "data": {
      "baseline": {
        "value": 250,
        "label": "250m",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 290,
        "label": "290m"
      },
      "average": {
        "value": 215,
        "label": "215m"
      },
      "current": {
        "value": 300,
        "label": "300m",

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      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "up",
      "delta": 35,
      "delta_label": "+35m vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "Verify test conditions"
    ]
  }
},
"/api/v1/patients/PAT-456/metrics/tug": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-456",
  "metric_key": "tug",
  "title": "Timed Up and Go",
  "units": "s",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 8.9,
      "label": "8.9s",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 7.8,
      "label": "7.8s"
    },
    "average": {
      "value": 9.6,
      "label": "9.6s"
    },
    "current": {
      "value": 10.4,
      "label": "10.4s",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "down",
      "delta": 1.5,
      "delta_label": "+1.5s slower vs baseline"
    }
  },
  "alerts": {
    "status": "critical",
    "reasons": [
      "TUG worsening beyond threshold"
    ]
  }
},
"/api/v1/patients/PAT-456/metrics/sit-to-stand": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-456",
  "metric_key": "sit_to_stand",
  "title": "Sit to Stand",
  "units": "s",

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    "max_value": null,
    "data": {
      "baseline": {
        "value": 12.0,
        "label": "12.0s",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 10.9,
        "label": "10.9s"
      },
      "average": {
        "value": 13.1,
        "label": "13.1s"
      },
      "current": {
        "value": 14.6,
        "label": "14.6s",
        "recorded_at": "2025-06-27"
      },
      "timeline": {
        "start": "2025-01-02",
        "end": "2025-06-27",
        "label": "2025-01-02 to 2025-06-27"
      },
      "trend": {
        "direction": "down",
        "delta": 2.6,
        "delta_label": "+2.6s slower vs baseline"
      }
    },
    "alerts": {
      "status": "warning",
      "reasons": [
        "Lower-limb decline signal"
      ]
    }
  },
  "/api/v1/patients/PAT-456/metrics/fvc": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-456",
    "metric_key": "fvc",
    "title": "FVC",
    "units": "L",
    "max_value": null,
    "data": {
      "baseline": {
        "value": 1.62,
        "label": "1.62 L",
        "recorded_at": "2025-01-02"
      },
      "cohort": {
        "value": 1.75,
        "label": "1.75 L"
      },
      "average": {
        "value": 1.58,
        "label": "1.58 L"
      },
      "current": {
        "value": 1.45,
        "label": "1.45 L",
        "recorded_at": "2025-06-27"
      },
      "timeline": {
        "start": "2025-01-02",
        "end": "2025-06-27",
        "label": "2025-01-02 to 2025-06-27"
      },
      "trend": {

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        "direction": "up",
        "delta": 0.1,
        "delta_label": "+0.10 L vs baseline"
    }
},
"alerts": {
    "status": "warning",
    "reasons": [
        "Pulmonary decline"
    ]
}
},
"/api/v1/patients/PAT-456/metrics/pef": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-456",
    "metric_key": "pef",
    "title": "Peak Expiratory Flow",
    "units": "L/min",
    "max_value": null,
    "data": {
        "baseline": {
            "value": 230,
            "label": "230 L/min",
            "recorded_at": "2025-01-02"
        },
        "cohort": {
            "value": 245,
            "label": "245 L/min"
        },
        "average": {
            "value": 220,
            "label": "220 L/min"
        },
        "current": {
            "value": 210,
            "label": "210 L/min",
            "recorded_at": "2025-06-27"
        },
        "timeline": {
            "start": "2025-01-02",
            "end": "2025-06-27",
            "label": "2025-01-02 to 2025-06-27"
        },
        "trend": {
            "direction": "down",
            "delta": -20,
            "delta_label": "-20 L/min vs baseline"
        }
    },
    "alerts": {
        "status": "none",
        "reasons": []
    }
},
"/api/v1/patients/PAT-456/metrics/respiration-rate-rest": {
    "schema": "metric_standard_v1",
    "patient_id": "PAT-456",
    "metric_key": "respiration_rate_rest",
    "title": "Respiration Rate (Rest)",
    "units": "breaths/min",
    "max_value": null,
    "data": {
        "baseline": {
            "value": 18,
            "label": "18",
            "recorded_at": "2025-01-02"
        },
        "cohort": {
            "value": 16,
            "label": "16"
        }
    }
}

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    },
    "average": {
      "value": 18,
      "label": "18"
    },
    },
    "current": {
      "value": 20,
      "label": "20",
      "recorded_at": "2025-06-27"
    },
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    },
    "trend": {
      "direction": "up",
      "delta": 2,
      "delta_label": "+2 vs baseline"
    }
  },
  "alerts": {
    "status": "none",
    "reasons": []
  }
},
"/api/v1/patients/PAT-456/metrics/spo2-rest": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-456",
  "metric_key": "spo2_rest",
  "title": "SpO2 (At Rest)",
  "units": "%",
  "max_value": 100,
  "data": {
    "baseline": {
      "value": 98,
      "label": "98%",
      "recorded_at": "2025-01-02"
    },
    },
    "cohort": {
      "value": 98,
      "label": "98%"
    },
    },
    "average": {
      "value": 97,
      "label": "97%"
    },
    },
    "current": {
      "value": 97,
      "label": "97%",
      "recorded_at": "2025-06-27"
    },
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    },
    "trend": {
      "direction": "stable",
      "delta": -1,
      "delta_label": "-1% vs baseline"
    }
  },
  "alerts": {
    "status": "none",
    "reasons": []
  }
},
"/api/v1/patients/PAT-456/metrics/ck": {
  "schema": "metric_standard_v1",

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"patient_id": "PAT-456",
"metric_key": "ck",
"title": "CK",
"units": "U/L",
"max_value": null,
"data": {
  "baseline": {
    "value": 5200,
    "label": "5200 U/L",
    "recorded_at": "2025-01-02"
  },
  "cohort": {
    "value": 4800,
    "label": "4800 U/L"
  },
  "average": {
    "value": 5100,
    "label": "5100 U/L"
  },
  "current": {
    "value": 6100,
    "label": "6100 U/L",
    "recorded_at": "2025-06-27"
  },
  "timeline": {
    "start": "2025-01-02",
    "end": "2025-06-27",
    "label": "2025-01-02 to 2025-06-27"
  },
  "trend": {
    "direction": "up",
    "delta": 900,
    "delta_label": "+900 U/L vs baseline"
  }
},
>alerts": {
  "status": "none",
  "reasons": []
}
},
"/api/v1/patients/PAT-456/metrics/alt": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-456",
  "metric_key": "alt",
  "title": "ALT",
  "units": "U/L",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 35,
      "label": "35 U/L",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 32,
      "label": "32 U/L"
    },
    "average": {
      "value": 34,
      "label": "34 U/L"
    },
    "current": {
      "value": 58,
      "label": "58 U/L",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    }
  }
}

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    },
    "trend": {
      "direction": "up",
      "delta": 23,
      "delta_label": "+23 U/L vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "ALT elevated"
    ]
  }
},
"/api/v1/patients/PAT-456/metrics/ast": {
  "schema": "metric_standard_v1",
  "patient_id": "PAT-456",
  "metric_key": "ast",
  "title": "AST",
  "units": "U/L",
  "max_value": null,
  "data": {
    "baseline": {
      "value": 42,
      "label": "42 U/L",
      "recorded_at": "2025-01-02"
    },
    "cohort": {
      "value": 39,
      "label": "39 U/L"
    },
    "average": {
      "value": 41,
      "label": "41 U/L"
    },
    "current": {
      "value": 66,
      "label": "66 U/L",
      "recorded_at": "2025-06-27"
    },
    "timeline": {
      "start": "2025-01-02",
      "end": "2025-06-27",
      "label": "2025-01-02 to 2025-06-27"
    },
    "trend": {
      "direction": "up",
      "delta": 24,
      "delta_label": "+24 U/L vs baseline"
    }
  },
  "alerts": {
    "status": "warning",
    "reasons": [
      "AST elevated"
    ]
  }
},
"/api/v1/patients/PAT-456/therapy/steroid/response": {
  "schema": "therapy_response_v1",
  "patient_id": "PAT-456",
  "therapy_key": "steroid_deflazacort",
  "therapy_name": "Steroid (Deflazacort)",
  "status": "active",
  "start_date": "2024-08-01",
  "dose": {
    "value": 0.9,
    "units": "mg/kg/day"
  },
  "response_summary": "Early stabilization; emerging lab side effects.",

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```

"signals": [
  {
    "type": "functional",
    "metric_key": "6mwt",
    "effect": "improved",
    "note": "+35m vs baseline"
  },
  {
    "type": "biomarker",
    "metric_key": "alt",
    "effect": "worsened",
    "note": "ALT rising"
  }
],
>alerts": {
  "status": "warning",
  "reasons": [
    "Monitor liver enzymes"
  ]
}
},
"/api/v1/patients/PAT-456/therapy/gene/response": {
  "schema": "therapy_response_v1",
  "patient_id": "PAT-456",
  "therapy_key": "gene_therapy_trial_a",
  "therapy_name": "Gene Therapy Trial A",
  "status": "active",
  "start_date": "2025-02-10",
  "dose": {
    "value": null,
    "units": null
  },
},
"response_summary": "Positive functional signal; monitor durability.",
"signals": [
  {
    "type": "functional",
    "metric_key": "nsaa",
    "effect": "improved",
    "note": "+2 vs baseline"
  },
  {
    "type": "pulmonary",
    "metric_key": "fvc",
    "effect": "declining",
    "note": "-0.17 L vs baseline"
  }
],
>alerts": {
  "status": "none",
  "reasons": []
}
}
}

```