

Possible Testing Scenarios Using CardX-HTN-MG Logica Server

If not using CardX-HTN-MG Logica server, many scenarios still apply and provided test files can be used as templates⁴.

Base URL: <https://api.logicahealth.org/CardXHTNMG/open>

Possible scenarios:

1. Non-technical users: query existing SMBP data via ClinFHIR
2. Query existing SMBP data
3. Query existing individual SMBP readings, calculate Average SMBP¹, send Average SMBP to Logica without references to individual readings
4. Query existing individual SMBP readings, calculate Average SMBP¹, send Average SMBP to Logica with references to individual readings²
5. Send provided individual SMBP readings (with or without SMBP heart rate)
6. Send provided average SMBP observation without references to individual readings
7. Send provided average SMBP observation with references to individual readings (address *derivedFrom*)⁴
8. Send provided SMBP heart rate
9. Generate^{3, 4} and send SMBP heart rate
10. Send provided individual SMBP readings, calculate Average SMBP¹, send Average SMBP to Logica without references to individual readings
11. Send provided individual SMBP readings, calculate Average SMBP¹, send Average SMBP to Logica with references to individual readings²
12. Generate^{3, 4} and send individual SMBP readings, calculate Average SMBP¹, send Average SMBP* to Logica without references to individual readings
13. Generate^{3, 4} and send individual SMBP readings, calculate Average SMBP¹, send Average SMBP to Logica with references to individual readings²
14. Query SMBP data on multiple patients (for example as if it was to be sent to a registry)²

¹ Ideally, average SMBP would be calculated programmatically based on sent and/or retrieved individual SMBP readings. However, manual calculation would be acceptable as well.

² Most complex scenarios

³ If generating data and referencing device, existing device id is 14703

⁴ If using template test data, placeholder patient id is "iiii". For average blood pressure with references to individual readings, placeholder id is "dddd". Please address text.div as needed.

Retrieving SMBP Data

To separate SMBP data from non-SMBP observations, use category parameter values
category=vital-signs AND category=310858007 (category=vital-signs&category=310858007)

Examples (highlighted portion can be directly copy/pasted into ClinFHIR query field):

1. Retrieve all SMBP data for a given patient

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007](#)

With date range:

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&date=ge2024-01-01&date=le2024-01-08](#)

2. Retrieve all individual SMBP readings for a given patient

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=85354-9](#)

With date range:

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=85354-9&date=ge2024-01-01&date=le2024-01-08](#)

3. Retrieve all SMBP heart rate readings for a given patient

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=8867-4](#)

With date range:

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=8867-4&date=ge2024-01-01&date=le2024-01-08](#)

4. Retrieve all average SMBP observations for a given patient

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=96607-7](#)

With date range:

Base_URL/[Observation?patient=14775&category=vital-signs&category=310858007&code=96607-7&date=ge2024-01-01&date=le2024-01-08](#)

Retrieving SMBP Data with ClinFHIR

1. Go to <http://clinfhir.com/query.html>
2. Select AdHoc
3. Copy/paste base URL <https://api.logicahealth.org/CardXHTNMG/open> into *Enter the base Url of the server field*
4. Click Set button

clinFHIR Server Query

Select server

☐ Known

☒ AdHoc

Set

5. To run queries, copy/paste highlighted parts of the example queries into REST query field
6. Click Execute button

Query server [Server Capabilities](#)

REST query [Query history](#) [Query Builder](#) [Query help](#)

Execute

7. Select Observation from the List and choose preferred format.
Tree format is a good alternative for users not familiar with JSON/XML.

<https://api.logicahealth.org/CardXHTNMG/open/Observation?patient=14775&category=vital-s>

50 / 57 Entries

Json XML FSH Tree

List Graph Bundle

Observation	2024-01-01 85354-9
Observation	

```
{
  "resourceType": "Observation",
  "id": "14776",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2024-01-11T19:"
```