## 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 templates<sup>4</sup>.

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 SMBP<sup>1</sup>, send Average SMBP to Logica <u>without</u> references to individual readings
- 4. Query existing individual SMBP readings, calculate Average SMBP<sup>1</sup>, send Average SMBP to Logica with references to individual readings<sup>2</sup>
- 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)<sup>4</sup>
- 8. Send provided SMBP heart rate
- 9. Generate<sup>3, 4</sup> and send SMBP heart rate
- 10.Send provided individual SMBP readings, calculate Average SMBP<sup>1</sup>, send Average SMBP to Logica without references to individual readings
- 11. Send provided individual SMBP readings, calculate Average SMBP<sup>1</sup>, send Average SMBP to Logica with references to individual readings<sup>2</sup>
- 12.Generate<sup>3, 4</sup> and send individual SMBP readings, calculate Average SMBP<sup>1</sup>, send Average SMBP\* to Logica <u>without</u> references to individual readings
- 13.Generate<sup>3, 4</sup> and send individual SMBP readings, calculate Average SMBP<sup>1</sup>, send Average SMBP to Logica with references to individual readings<sup>2</sup>
- 14. Query SMBP data on multiple patients (for example as if it was to be sent to a registry)<sup>2</sup>

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

<sup>&</sup>lt;sup>2</sup> Most complex scenarios

<sup>&</sup>lt;sup>3</sup> If generating data and referencing device, existing device id is 14703

<sup>&</sup>lt;sup>4</sup> If using template test data, placeholder patient id is "iiiii". For average blood pressure with references to individual readings, placeholder id is "ddddd". 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:

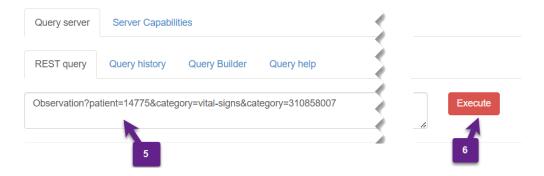
Base\_URL/Observation?patient=14775&category=vital-signs&category=310858007&code=96607-7&date=ge2024-01-01&date=le2024-01-08

## **Retrieving SMBP Data with ClinFHIR**

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



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



7. Select Observation from the List and choose preferred format.

\*Tree format is a good alternative for users not familiar with JSON/XML.\*

