

Virtual declarations

- Virtual EMR declaration:
 - Import virtual EMR declaration
- Variables:
 - v_cough_list is a variable of type List (a container)
 - v_cough is a variable of type Observation
 - v_acei_list is variable of type List (a container)
 - v_acei is a variable of type Medication

Virtual EMR

- Has these classes:
 - PatientData
 - Observation
 - Medications
- Observation has at least these attributes:
 - Concept code (DSG001 and subconcepts)
 - Start time and end time
- Medication has at least these attributes:
 - Concept code (DSG002 and subconcepts)
 - Start time and end time
 - Dose
 - Frequency
 - Route

Virtual Vocabulary

- Has following concepts
 - Cough (DSG007) is-a Observation (DSG001)
 - ACE Inhibitor (DSG008) is-a Medication (DSG002)

Virtual Queries

- v_cough_list= select last obs from obs in vEMR.Observation where obs.Concept_Code = 'DSG007' and obs.EndTime = null sort by obs.StartTime;
- v_acei_list = select last ace from ace in vEMR.Medication where ace.Concept_Code = 'DSG008' sort by ace.StartTime;

Virtual Expression Language

- `v_cough = v_cough_list.first();`
- `v_acei = v_acei_list.first();`
- $(v_cough.StartTime - v_acei.StartTime) < 4 \text{ weeks}$

The screenshot shows a window titled "developed cough shortly after beginning ACEI (Three_Valued_Criterion)". The window has a blue title bar and a grey background. It contains several sections:

- Name:** A text box containing "developed cough shortly after beginning ACEI".
- Specification:** A text box containing the expression `(latest cough.critical_time.low - latest ACEI.critical_time.low) < 4 weeks`.
- Encoding Language:** A dropdown menu with "GLIF_Arden" selected.
- Didactics:** A large empty text box. To its right are four buttons: "V", "C", "+", and "-".