Committee Approval Date:
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Publishing Lead:
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Contributing or Reviewing Work Groups:
Clinical Interoperability Council (CIC) – VANGUARD CRN
CIMI (Co-Sponsor)

FHIR Development Project Insight ID:
1578

Scope of coverage:
Scope begins at the identification of need for access through vascular pathway evaluation, device selection and insertion, use, device and vascular pathway salvage with applications for monitoring, safety, and clinical effectiveness.
This includes continuing care across device, disease and patient life cycles, device safety and effectiveness evaluation, cost and quality analysis, decision support, and development and communication of relevant standards and guidelines.

Content location:
IG Content: https://github.com/HL7/fhir-vanguard-ig
Project Overview/support documents: https://confluence.hl7.org/x/U6YNAw

Proposed IG realm and code:
Universal Realm (uv)
uv/vanguard-crn

Maintenance Plan:
VANGUARD CRN (MDEpiNet) provides ongoing support and curation of this implementation guide.

Short Description:
Support for clinical workflow exchanges of intravascular access and related vascular diseases.
Long Description:

The Implementation Guide specifies the structured reports required to support intravascular access and related vascular diseases clinical workflow data collection and exchanges from Health IT systems (e.g., EHRs and Registries).

The IG includes the necessary profiles, structured data capture, search parameters to address the following scenarios:

- Insertion procedures,
- Periprocedural data,
- Longitudinal data,
- Device Failures and Salvage, and

Ultimately this supports the improved data collected for intravascular access and related vascular diseases and outcomes research that is enabled.

Involved parties:

The work is managed by the VANGUARD registry leads (including Velezis and Lario) with technical support and direction from a group of highly experienced modeling SMEs (Huff, Esmond, Allen, McDonald) who provide quality assurance, validation and problem solving for content. The primary modeling team is comprised of clinical domain SMEs who are trained by a modeling expert on the method of creating models and use a modeling IG (optimally one reviewed by or generated from Logica). This team is comprised of US clinicians from VANGUARD and Australian members from AVATAR (https://www.avatargroup.org.au/).

Expected implementations:

PenRad, TrackMy Solutions, ExcelrateUDI, MyLinks

Content sources:

Requirements were collected for clinical workflow of Intravascular access device insertions, perioperative and longitudinal care, infection detection/adverse events.

Example Scenarios:

- Provider completes the clinical checklist for patients undergoing VAD insertion procedures in an inpatient setting for daily assessment of intravascular access device use.
- Provider completes structured report for percutaneous intravascular access creation/insertion
- Home health provider completes the longitudinal care checklist/structured report for patients being followed post intravascular access device placement.
- Patient completes preference survey to enable appropriate care when interacting with providers beyond the initial provider that placed the intravascular access device, if necessary.
- Patient contributes sentinel event data regarding intravascular access use and outcomes important to the patient.

IG Relationships:

This guide references where possible and/or leverages the patterns set by the "standards" defined by Argonaut and US Core efforts for FHIR R4, Clinical Quality Language (CQL) – i.e., to expand or extend the scope or apply constraints.

Timelines:

STU Ballot in January 2021

Normative Ballot in September 2022

FMG Notes