Topic 4: Use Case: Closed-Loop Referral
Cross-Community Testing Collaboration
Cross-community testing

- Looking for ways to connect across multiple CDA communities to leverage common objectives— all pull together for a greater impact
- HL7, IHE, DirectTrust, Commonwell, Carequality
- One unifying focus - a use case
- Different testing opportunities
About the use case

- Improving communication across a dispersed care team
- Closed-loop referrals
- Gathering clinical data that can be used to evaluate outcomes, create a learning health system
- Better patient engagement, better care outcomes

Drive adoption and valuable use of Encounter Summary Documents:

Referral Note, Consultation Note, Progress Note, History and Physical, Transfer Summary, Care Plan

Improving care for patients with diabetes.

An action specific, detail rich, reusable story that can drive testing across multiple communities.
Changes in Foveal Avascular Zone in Early Diabetic Retinopathy

- The earliest measurable microvascular changes in the body
Changes can be measured and quantitated

- The changes can be measured and quantitated:
  - Size of the foveal avascular zone: 0.228 mm²
  - Vascular density: PRIM- 1.801
- These changes are present 2 or more years before the appearance of visible retinopathy in many cases
- The amount of change is related to the level of diabetes control
Role of Clinical Outcome Registries

- Analyze the relationship to the appearance of OCT-A findings to the time of development of visible retinopathy

- Since the microvascular changes are occurring in other organs in the body:
  - Analyzing the predictive value based on HbA1c levels of developing other diabetic complications such as:
    - Peripheral neuropathies
    - Kidney damage
    - Skin conditions
    - Etc.

- Although the OCT-A is completed in the eye care office, sharing the results has implications for many other aspects of diabetes management that is important to the primary care physician and the rest of the team
IHE Connectathon report out

- 4 Implementers Tested: NextGen, Epic, eClinicalWorks, Qvera
- Each produced Referral Note to initiate the referral
- Each produced CCD as the outcome results report
  - All agreed to work toward a Consultation Note as a better option
  - Both a CCD and the final Progress or Consultation Note would be ideal
- Spec allows for lots of optionality
- Handout shows key content expectations for potential Referral Note and close-the-loop documents Rubric Rules
- XDM metadata, V2 Message, CDA Document → All necessary?

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Test your Referral Note knowledge

https://confluence.hl7.org/download/attachments/97453012/ReferralNote%20Marla%20Test%2020200120-Updated%202020210318.html?version=1&modificationDate=1616429578453&api=v2
Proposed Rubric Rules for Referral Notes

- Header – service event
- Header – encompassing encounter
- Reason for Referral Section
- Care Plan Section
## Area of Testing Focus, Review and Expectation Setting

<table>
<thead>
<tr>
<th>Area of Testing Focus, Review and Expectation Setting</th>
<th>IHE</th>
<th>HL7</th>
<th>DT</th>
<th>Data Use in Recipient System</th>
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<tbody>
<tr>
<td>Information exchange mechanism</td>
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<tr>
<td>Message content to drive information processing workflows</td>
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<tr>
<td>Document content</td>
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<tr>
<td>Content processing, data reuse</td>
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What should be the focus for Real World Testing?
Break time!

- At 3:45 pm ET, return to hear the latest CDA and C-CDA roadmap updates!
  - Risk is the most popular game for today’s attendees.
  - Fun Fact: According to Guinness World Records, in 2019 the world's best selling board game ever is Monopoly.