##### X.4.2.1.2 Referral Linking Process Flow

Content Creator/Consumer  
 Dr. Primari

Actor D/

Actor E

Content Consumer/Creator  
 Dr. Payne

Actor B

Actor A /

Actor B

Share Content❶

Transaction-A [A]

Share Content❷

Transaction-A [A]

Share Content❸

Transaction-A [A]

Share Content❺

Transaction-A [A]

Share Content❻

Transaction-A [A]

Share Content❼

Transaction-A [A]

Share Content❹

Transaction-A [A]

Figure X.4.2.1.1: Use Case 1, Referral, Process Flow in <Profile Acronym> Profile

##### X.4.2.2.1 Order Linking Use Case Description

Lillian Charles is discharged from the hospital post C-section with orders for home health services to evaluate and treat❶. Initial home health assessment includes a request to the provider of record (Dr. Woods) for approval of the initial home health plan of care. The plan of care includes an order for daily wet-to-dry dressing changes for a slow healing incision. Home health assessment and plan of care is documented in the home health system. A copy of the assessment and plan of care as well as the initial order request transaction is sent to Dr. Woods EMR❷. Approval of the plan of care is sent from Dr. Woods to the home health agency❸. Lillian’s incision worsens. The home health nurse sends an updated order request to increase dressing changes from daily to twice a day. She includes an image of the wound and scanned nursing notes describing the incision as well as wound measurements❹. Dr. Woods receives the information and decides to order wound vac therapy instead of wet to dry dressing changes. The order for wound vac therapy is forwarded to the home health nursing system❺. The home health nurse sends a message to Dr. Woods with a request for Dr. Woods to obtain pre-authorization from Lillian’s payer❻. This is needed prior to starting wound vac therapy. Dr. Woods obtains the pre-authorization and forwards the information to the home health nurse system❼. The home health nurse obtains the wound vac and initiates the ordered therapy. Each message sent between Dr. Woods and the home health nurse results in a separate message transaction.

Order linking provides the ability to link/match each transaction relating to Lillian’s initial order from the hospital and subsequent related communication about the order between the home health agency and Dr. Woods.

##### X.4.2.2.2 Order Linking Process Flow

Content Creator/Consumer  **HH Agency**

Actor D/

Actor E

Content Consumer/Creator  
**Dr. Woods**

Actor B

Actor A /

Actor B

Share Content (Request approval for POC and wound care order)

Transaction-A [A]

Content Creator  
**Hospital**

Actor B

Actor A /

Actor B

Share Content (Order HH services)

Transaction-A [A]



Share Content (Provide approved POC and wound care order)

Transaction-A [A]

Share Content (Request update for wound care order)

Transaction-A [A]



Share Content (Provide modified wound care order request)

Transaction-A [A]

Share Content (Request pre-auth for updated wound care order)

Transaction-A [A]

Share Content (Provide pre-auth for updated wound care order)

Transaction-A [A]



Figure X.4.2.2-2: Basic Order Linking Process Flow in <Profile Acronym> Profile

##### X.4.2.3.1 EHDI Use Case Description

Information flows among providers (birthing facilities, pediatricians and specialists) and public health agencies concerning early hearing detection and intervention (EHDI) have been inconsistent and unreliable. Communicating hearing screening and follow-up information including important next steps for an infant is not done effectively leading to data errors, missed information and missed services.

Newborn hearing screening (NHS) is initiated based on public health (PH) guidelines. NHS commonly occurs during the birth admission (24-72 hours of age) or before 30 days of age. Children who do not pass the initial hearing screening have short term follow-up with care providers which includes audiologic diagnosis and early intervention up to the 3rd birthday. The Primary Care Provider performs further clinical surveillance which recognizes children at risk for delayed onset or progressive hearing loss.

At birth, the birthing center provider initiates the NHS so that the screening is performed. The screening result is submitted to the Public Health EHDI program which calculates the NHS outcomes. The NHS outcome is presented in the Early Hearing Care Plan (EHCP) including follow-up activity. The typical communication flow is as follows:

a. ❶PH notifies Birthing Center of NHS guidelines (generates initial protocol)

b. ❷Birthing center notifies PH of new birth demographic information

c. ❸PH sends request for NB hearing screening (generates initial order)

d. ❹NHS performed at birth and result is reported to PH EHDI program of which the NHS outcome is calculated and presented in EHCP. EHCP contains the follow-up orders.

e. ❺EHCP is shared with PCP/Specialist (e.g. audiologist) (generates initial referral/order)

f. ❻PCP/Specialist shares audiology evaluation (generates referral response) with PH

g. ❼PCP/Specialist shares appropriate follow-ups (generates subsequent referral response)

a. If the risk assessment is positive, the PCP/Specialist has to perform follow-up hearing screening risk assessments as recommended with appropriate action to follow by 1 mo, 2 mo, 4 mo, 6 mo, 9 mo, 12 mo, 15 mo, 18 mo, 24 mo, 30 mo, and 3 years and “to be performed” at 4 years of age (generates notification/orders)

* b. PCP/Specialist gets HS and diagnostic evaluation surveillance reports and quality assessment reports from public health IS to EHRs

##### X.4.2.3.2 EHDI Process Flow

Content Creator/Consumer  **Public Health**

Actor D/

Actor E

Content Consumer/Creator  
**PCP**

Actor B

Actor A /

Actor B

Share Content (new birth demographic)

Content Creator/Consumer **Birthing Center**

Share Content (NHS guidelines)

Transaction-A [A]



Share Content (Request NB hearing screening result)

Share Content (Report NB hearing screening result)



Share Content (Provide EHCP referral/ order)

Share Content (Referral request if results abnormal)

Share Content (Provide subsequent results)



Generate EHCP

Content Consumer/Creator  
**Specialist**

Actor B

Actor A /

Actor B

Share Content (Provide referral response)

Update EHCP

Share Content (Provide referral response)

Share Content (Provide subsequent results)



Share Content (Provide evaluation surveillance and quality assessment reports)

Share Content (Provide evaluation surveillance and quality assessment reports)

