Figure 41: Transfer Summary Callback Contact Example

```
<participant typeCode="CALLBCK">
    <time value="20050329224411+0500" />
    <associatedEntity classCode="ASSIGNED">
        <id extension="99999999" root="2.16.840.1.113883.4.6" />
        <code code="200000000X" codeSystem="2.16.840.1.113883.6.101"
displayName="Allopathic & Osteopathic Physicians" />
        <addr>
            <streetAddressLine>1002 Healthcare Drive </streetAddressLine>
            <city>Ann Arbor</city>
            <state>MI</state>
            <postalCode>97857</postalCode>
            <country>US</country>
        </addr>
        <telecom use="WP" value="tel:555-555-1002" />
        <associatedPerson>
            <name>
                <given>Henry</given>
                <family>Seven</family>
            </name>
        </associatedPerson>
    </associatedEntity>
</participant>
```

1.1.22 Unstructured Document (V3)

`[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.1.10:2015-08-01 (open)]`

An Unstructured Document (UD) document type can (1) include unstructured content, such as a graphic, directly in a text element with a mediaType attribute, or (2) reference a single document file, such as a word-processing document using a text/reference element.
For guidance on how to handle multiple files, on the selection of media types for this IG, and on the identification of external files, see the examples that follow the constraints below.
IHE's XDS-SD (Cross-Transaction Specifications and Content Specifications, Scanned Documents Module) profile addresses a similar, more restricted use case, specifically for scanned documents or documents electronically created from existing text sources, and limits content to PDF-A or text. This Unstructured Documents template is applicable not only for scanned documents in non-PDF formats, but also for clinical documents produced through word processing applications, etc.
For conformance with both specifications, implementers need to ensure that their documents at a minimum conform with the SHALL constraints from either specification.

Table 57: Unstructured Document (V3) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.10:2015-08-01)					
templateId	1..1	SHALL		1198-7710	
@root	1..1	SHALL		1198-10054	2.16.840.1.113883.10.20.22.1.10
@extension	1..1	SHALL		1198-32522	2015-08-01
recordTarget	1..*	SHALL		1198-31089	
patientRole	1..1	SHALL		1198-31090	
id	1..*	SHALL		1198-31091	
custodian	1..1	SHALL		1198-31096	
assignedCustodian	1..1	SHALL		1198-31097	
representedCustodianOrganization	1..1	SHALL		1198-31098	
component	1..1	SHALL		1198-31085	
nonXMLBody	1..1	SHALL		1198-31086	
text	1..1	SHALL		1198-31087	

1.1.23 Properties

1. Conforms to **US Realm Header (V3)** template (`identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2015-08-01`).
2. **SHALL** contain exactly one [1..1] **`templateId`** (CONF:1198-7710) such that it
   a. **SHALL** contain exactly one [1..1] **`@root`**`="2.16.840.1.113883.10.20.22.1.10"` (CONF:1198-10054).
   b. **SHALL** contain exactly one [1..1] **`@extension`**`="2015-08-01"` (CONF:1198-32522).
   c. When asserting this templateId, all C-CDA 2.1 section and entry templates that had a previous version in C-CDA R1.1 **SHALL** include both the C-CDA 2.1 templateId and the C-CDA R1.1 templateId root without an extension. See C-CDA R2.1 Volume 1 - Design Considerations for additional detail (CONF:1198-32944).

1.1.23.1 recordTarget

3. **SHALL** contain at least one [1..*] **`recordTarget`** (CONF:1198-31089).

a. Such recordTargets **SHALL** contain exactly one [1..1] **patientRole** (CONF:1198-31090).
    i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:1198-31091).

1.1.23.2 custodian

4. **SHALL** contain exactly one [1..1] **custodian** (CONF:1198-31096).
    a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1198-31097).
        i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1198-31098).
5. **SHALL** contain exactly one [1..1] **component** (CONF:1198-31085).

1.1.23.3 nonXMLBody

An Unstructured Document must include a nonXMLBody component with a single text element. The text element can reference an external file using a reference element, or include unstructured content directly with a mediaType attribute. The nonXMLBody/text element also has a "compression" attribute that can be used to indicate that the unstructured content was compressed before being Base64Encoded. At a minimum, a compression value of "DF" for the deflate compression algorithm (RFC 1951 [URL:http://www.ietf.org/rfc/rfc1951.txt]) must be supported although it is not required that content be compressed.

a. This component **SHALL** contain exactly one [1..1] **nonXMLBody** (CONF:1198-31086).
    i. This nonXMLBody **SHALL** contain exactly one [1..1] **text** (CONF:1198-31087).
        1. If the text element does not contain a reference element with a value attribute, then it **SHALL** contain exactly one [1..1] @representation="B64" and exactly one [1..1] @mediaType (CONF:1198-7624).
        2. The value of @mediaType, if present, **SHALL** be drawn from the value set 2.16.840.1.113883.11.20.7.1 SupportedFileFormats STATIC 2010-05-12 (CONF:1198-7623).

Table 58: SupportedFileFormats

Value Set: SupportedFileFormats urn:oid:2.16.840.1.113883.11.20.7.1 A value set of the file formats supported by the Unstructured Document IG. Value Set Source: http://www.hl7.org			
Code	**Code System**	**Code System OID**	**Print Name**
application/msword	Media Type	urn:oid:2.16.840.1.113883.5.79	MSWORD
application/pdf	Media Type	urn:oid:2.16.840.1.113883.5.79	PDF
text/plain	Media Type	urn:oid:2.16.840.1.113883.5.79	Plain Text
text/rtf	Media Type	urn:oid:2.16.840.1.113883.5.79	RTF Text
text/html	Media Type	urn:oid:2.16.840.1.113883.5.79	HTML Text
image/gif	Media Type	urn:oid:2.16.840.1.113883.5.79	GIF Image
image/tiff	Media Type	urn:oid:2.16.840.1.113883.5.79	TIF Image
image/jpeg	Media Type	urn:oid:2.16.840.1.113883.5.79	JPEG Image
image/png	Media Type	urn:oid:2.16.840.1.113883.5.79	PNG Image

Figure 42: nonXMLBody Example with Embedded Content

```
<component>
    <nonXMLBody>
        <text mediaType="text/rtf" representation="B64">e1xydGY...</text>
    </nonXMLBody>
</component>
```

Figure 43: nonXMLBody Example with Referenced Content

```
<component>
    <nonXMLBody>
        <text>
            <reference value="UD_sample.pdf" />
        </text>
    </nonXMLBody>
</component>
```

Figure 44: nonXMLBody Example with Compressed Content

```
<component>
  <nonXMLBody>
    <text mediaType="text/rtf" representation="B64"
compression="DF">dhUhkasd437hbjfQS7…</text>
  </nonXMLBody>
</component>
```

1.1.24 US Realm Header for Patient Generated Document (V2)

`[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.29.1:2015-08-01 (open)]`

This template is designed to be used in conjunction with the US Realm Header (V2). It includes additional conformances which further constrain the US Realm Header (V2).
The Patient Generated Document Header template is not a separate document type. The document body may contain any structured or unstructured content from C-CDA.