Integrating the Healthcare Enterprise



IHE Quality, Research, and Public Health Technical Framework Supplement

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Family Planning (FP)

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Draft for Public Comment

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Please verify you have the most recent version of this document. See <u>here</u> for Trial Implementation and Final Text versions and <u>here</u> for Public Comment versions.

This is a supplement to the IHE Quality, Research and Public Health Technical Framework V0.1. Each supplement undergoes a process of public comment and trial implementation before being incorporated into the volumes of the Technical Frameworks.

This supplement is published on June 6, 2014 for public comment. Comments are invited and may be submitted at <u>http://www.ihe.net/QRPH_Public_Comments</u>. In order to be considered in development of the trial implementation version of the supplement, comments must be received by July 5, 2014

35 This supplement describes changes to the existing technical framework documents.

"Boxed" instructions like the sample below indicate to the Volume Editor how to integrate the relevant section(s) into the relevant Technical Framework volume.

Amend Section X.X by the following:

30

Where the amendment adds text, make the added text **<u>bold underline</u>**. Where the amendment removes text, make the removed text **<u>bold strikethrough</u>**. When entire new sections are added, introduce with editor's instructions to "add new text" or similar, which for readability are not bolded or underlined.

General information about IHE can be found at: <u>http://ihe.net</u>.

45 Information about the IHE IT Infrastructure domain can be found at: <u>http://ihe.net/IHE_Domains</u>.

Information about the organization of IHE Technical Frameworks and Supplements and the process used to create them can be found at: <u>http://ihe.net/IHE_Process</u> and <u>http://ihe.net/Profiles</u>.

50 The current version of the IHE IT Infrastructure Technical Framework can be found at: <u>http://ihe.net/Resources/Technical_Frameworks</u>.

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Introduction to this Supplement

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This supplement is written for public comment. It is written as an addition to the trial implementation version of the Quality, Research and Public Health Technical Framework.

This supplement also references and draws upon the following documents. The reader should review these documents as needed:

- 1. <u>IT Infrastructure Technical Framework</u>, especially in reference to Retrieve Form for Data Capture (RFD).
- Gavin L, Moskosky S, Carter M, Curtis K, Glass E, Godfrey E, Marcell A, Mautone-Smith N, Pazol K, Tepper N, Zapata L. Providing Quality Family Planning Services: Recommendations of CDC and the U.S. Office of Population Affairs. MMWR Recomm Rep. 2014 Apr 25;63(RR-04):1-54. PMID: 24759690.
 - 3. American College of Obstetricians and Gynecologists. Guidelines for Women's Health Care: A Resource Manual. Washington, DC: American College of Obstetricians and Gynecologists; 2007.
 - 4. Bellanca HK, Hunter MS. ONE KEY QUESTION®: preventive reproductive health is part of high quality primary care. Contraception. 2013 Jul;88(1):3-6. PubMed PMID: 23773527.
- 5. Division of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, Centers for Disease Control and Prevention (CDC). U.S. Selected Practice Recommendations for Contraceptive Use, 2013: adapted from the World Health Organization selected practice recommendations for contraceptive use, 2nd edition. MMWR Recomm Rep. 2013 Jun 21;62(RR-05):1–60. PMID: 23784109
 - 6. Institute of Medicine (U.S.). Clinical preventive services for women: closing the gaps. Washington, D.C: National Academies Press; 2011.
 - Johnson K, Posner SF, Biermann J, Cordero JF, Atrash HK, Parker CS, Boulet S, Curtis MG, CDC/ATSDR Preconception Care Work Group, Select Panel on Preconception Care. Recommendations to improve preconception health and health care--United States. A report of the CDC/ATSDR Preconception Care Work Group and the Select Panel on Preconception Care. MMWR Recomm Rep. 2006 Apr 21;55(RR-6):1–23. PMID: 16617292.
 - World Health Organization Department of Reproductive Health and Research (WHO/RHR) and Johns Hopkins Bloomberg School of Public Health Center for Communication Programs (CCP), Knowledge for Health Project. Family Planning: A Global Handbook for Providers (2011 update). Baltimore and Geneva: CCP and WHO, 2011.

Contraception is a major preventive health service that is not fully integrated nor consistently captured within many electronic medical record (EMR) systems. Pregnancy intention and contraceptive method are essential health indicators for women and men and for primary and

- 220 specialty care clinicians, healthcare administrators, academic researchers, non-profit advocacy organizations, and local, state, and federal public health authorities. A variety of gaps currently exist in the healthcare setting if pregnancy intention and contraceptive method fields do not exist in the EMR system and are not explicitly addressed in the clinical setting or captured for practice- and clinician-level performance metrics. The absence of standardized data capture,
- 225 reporting, monitoring, and evaluation of family planning services to public health authorities is often a burden to already stretched practices with multiple, diverse reporting obligations. This lack of integration requires substantial backend work to extract and export meaningful data. Additionally, many data elements important to family planning providers are critical to other clinical domains (e.g., blood pressure) while some issues are unique to family planning (e.g.,
- 230 patient's pregnancy intention). Standardized capture and recording of these variables across multiple clinical settings and diverse medical record documentation would facilitate more efficient reporting and adherence to clinical guidelines.

Clear specification on data elements, aligned with industry, clinical, US and international standards, is an important goal for advancement of high-quality health information technology.

- 235 Contraceptive prevalence, chlamydia screening, unmet need for family planning rates are examples of measures used for national statistics that would contribute to health service delivery assessment at local or institutional levels if data were available in electronic health records, the usefulness of these kinds of measures is dependent on the existence of quality data. Pregnancy intention and contraceptive use data are currently sporadically collected, if at all, especially
- among male patients. It is not possible to collect this data adequately through the use of billing or 240 diagnostic codes because not all methods are dispensed or prescribed (e.g., abstinence or withdrawal). Further, it is not possible to collect visit-level data with these codes because a method may be dispensed at one visit and still be in use at a subsequent visit but would not require entry of such codes at the later visit. The only way to address these challenges in data 245 collection is through standardized clinical decision support and data capture.

The Family Planning (FP) Profile describes the content and format to be used within the prepopulation data part of the Retrieve Form Request transaction from the RFD Integration Profile. It is expected that the Form Filler and Form Manager will implement the RFD transaction as specified in the RFD, and this profile does not include any additional constraints or extensions on the RFD transactions.

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Open Issues and Questions

- 1. Ensure contraceptive method data element is displayed according to the tiers of effectiveness to allow for correct handling at granular level.
- 2. Privacy and confidentiality concerns exist for patients' whose data are transmitted in the Family Planning RFD. In the future, the Form Filler and Form Receiver will have the burden of ensuring that personal health identifiers are not retained and transmitted using

pseudonymization and deidentification techniques. One deployment pattern may be that the Form Manager and the Form Receiver may reside in the same secure system.

3. Data from the Family Planning RFD will be used in aggregate reporting to provide performance indicators at a variety of clinical and geographic levels to service delivery sites.

4. Is the "Unavailable/Unknown" payer in the PHIN VADS PHSDC Source of Payment Typology used to indicate a lack of insurance or to indicate that insurance status is unknown? How are Medicaid SPA and waivers categorized in this typology?

265 Closed Issues

- 1. Will not confront the Form Processor issue until this is a published actor from an established Technical Framework.
- 2. Terminology, codes and value sets were initially selected for a variety of concept domains; however, these values were often too specific or not specific enough and thus require a submission to the appropriate authority to enable semantic interoperability.
- 3. Templates (like the header) are generic enough for international use but are out of date for US use. US standards are too much in flux to attempt cross-committee updates.
- 4. Form Fillers are expected to provide as much patient information as possible in the prepop and not to provide a pre-pop dominated by null flavors in Use Case #2 and #3. Null flavors should be reserved for missing data during data collection in a clinical setting, not as a method to avoid complex programming for fields that are complete in a Form Filler system.
- 5. Modeling for the location of several data elements: Sexual Activity, Total Pregnancies, Orders, and Last Cervical Cancer Screen could go in Pregnancy Status Review, Pregnancy History, Care Plan or Results. Orders were placed in Care Plan. Total Pregnancies was placed in Pregnancy History Observation.
- 6. In the US extension, only positive HIV results are expected to be reported. Reporting all negative results is considered excess burden, especially in sites with low background prevalence. This does not preclude the importance of clinical sites providing negative results back to clients.

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General Introduction

Update the following Appendices to the General Introduction as indicated below. Note that these are not appendices to Volume 1.

290 Appendix A – Actor Summary Definitions

No new actors.

Appendix B – Transaction Summary Definitions

Add the following transactions to the IHE Technical Frameworks General Introduction list of Transactions:

295 No new transactions

Glossary

Add the following glossary terms to the IHE Technical Frameworks General Introduction Glossary:

Glossary Term	Definition
Pregnancy Intention	A patient's plan or desire to either become pregnant or have a child in the near future or to prevent a future pregnancy. This variable is important because a client's desire for a future pregnancy has bearing on which contraceptive method a provider should be providing counseling on, given that some methods are long-acting or permanent. Sample questions and response options might include:
	- Would you like to become pregnant in the next year? Yes/No/Unsure/Okay either way. (One Key Question Initiative)
	- Which best describes your plans or desire to have a child? 1. I do not want to have a child, 2. I do want to have a child in the next year, 3. I do want to have a child in 1-2 years, 4. I do want to have a child in 3 or more years, 5. I am unsure about whether I want to have a child.
	- Which of the following best describe your current situation? 1. Trying to get pregnant, 2. Wouldn't mind getting pregnant, 3. Wouldn't mind avoiding pregnancy, 4. Trying to avoid pregnancy, 5. Don't know (Prospective London Measurement of Unplanned Pregnancy (pLMUP))
Language Proficiency	Family planning users who do not speak the national dominant language as their primary language and who have a limited ability to read, write, speak or understand the dominant language and therefore require language assistance services (interpretation or translation) in order to optimize their use of health services. Include users who receive services from multilingual staff in the user's preferred language, are assisted by a competent agency or contracted interpreter, or who opt to use a family member or friend as an interpreter after refusing the provider's offer of free language assistance services. Do not include users who are visually or hearing impaired or have other disabilities unless they also have a need for language assistance service.

Glossary Term	Definition
	Three tiers of effectiveness for available contraceptive methods have been established based upon efficacy of use and typical failure rates, per USAID and WHO recommendations. The tier 1 methods (such as the intrauterine device, implants, and sterilization) are rated the most highly effective because they are long-acting and independent from coitus, user motivation, or adherence and therefore have failure of rates of <1%. The lower tier methods are more highly dependent upon correct and consistent usage at every coital episode and thus susceptible to user failure with rates greater than 9%. Data elements that present contraceptive options should be ordered by these tiers.
	See: Trussell J. Contraceptive Efficacy. In Hatcher RA, Trussell J, Nelson AL, Cates W, Kowal D, Policar M. <i>Contraceptive Technology: Twentieth Revised Edition</i> . New York NY: Ardent Media, 2011.

Volume 1 – Profiles

Copyright Licenses

Add the following to the IHE Technical Frameworks General Introduction Copyright Section:

305 There are no new copyright additions.

X Family Planning (FP) Profile

The Family Planning (FP) Profile provides a means to capture information needed for mandated reporting, monitoring and evaluation, and quality improvement initiatives related to family planning service delivery. The FP Profile is a content profile that defines the content of Family

- 310 planning service delivery. The FP Profile is a content profile that defines the content of Fami Planning information to be exchanged between systems. This profile uses several different mechanisms for capturing and communicating that information:
 - Electronic data capture and form submission using the ITI Retrieve Form for Data Capture (RFD),
- Defined content in CDA documents.

X.1 FP Actors, Transactions, and Content Modules

This section defines the actors, transactions, and/or content modules in this profile. General definitions of actors are given in the Technical Frameworks General Introduction Appendix A at <u>http://www.ihe.net/Technical_Frameworks</u> (a work in progress).

320 The FP Profile uses actors and transactions from the ITI <u>RFD Profile</u> that support FP data collection, transformation, and reporting capabilities.

Figure X.1-1 shows the actors directly involved and their relevant transactions between them. Actors that may be indirectly involved due to their participation in other related profiles are shown in dotted lines. Actors which have a mandatory grouping are shown in conjoined boxes.

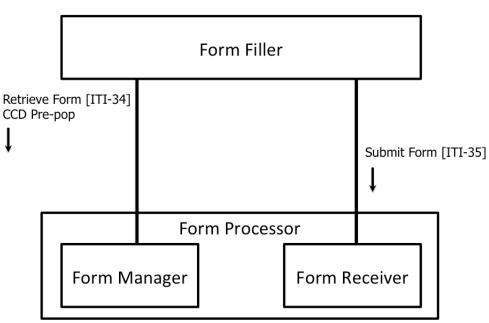


Figure X.1-1: FP Actor Diagram

Note: Examples of a Form Filler include an EMR system into which clinical site staff enters information. The Form Manager would include an information system that provides displayable forms. The Form Receiver may be an information system that accepts and re-packages the FP form data for subsequent distribution to an integrated health system or an intermediary information system entity that provides aggregate reports to Public Health authorities. A Form Processor would be capable of performing the actions of the Form Manager and the Form Receiver.

Table X.1-1 lists the transactions for each actor directly involved.

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Table X.1-1: FP Profile - Actors and Transactions

Actors	Transactions	Optionality	Reference
Form Filler	Retrieve Form [ITI-34]	R	ITI TF-2b: 3.34
	Submit Form [ITI-35]	R	ITI TF-2b: 3.35
Form Manager	Retrieve Form [ITI-34]	R	ITI TF-2b: 3.34
Form Receiver	Submit Form [ITI-35]	R	ITI TF-2b: 3.35
Form Processor	Retrieve Form [ITI-34]	0	ITI TF-2b: 3.34
	Submit Form [ITI-35]	0	ITI TF-2b: 3.35

Actors	Content Modules	Optionality	Reference
Form Filler	1.3.6.1.4.1.19376.1.5.3.1.1.24	0	FP Volume 3
Form Manager	1.3.6.1.4.1.19376.1.5.3.1.1.24	R	FP Volume 3
Form Processor	1.3.6.1.4.1.19376.1.5.3.1.1.24	0	FP Volume 3

Table X.1-2: FP - Actors and Content Module	S
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X.1.1 Actor Descriptions and Actor Profile Requirements

340 Most requirements are documented in Transactions (Volume 2) and Content Modules (Volume 3). This section documents any additional requirements on profile's actors.

X.1.1.1 Form Filler

The Form Filler is defined in the ITI RFD Profile. The Form Filler SHALL support XHTML and SHALL NOT support XFORMS of the Retrieve Form transaction (RFD ITI TF 2b: 3.34.4.2.3.2).

The Form Filler MAY support the Family Planning Pre-pop Option using a Family Planning Prepop document (1.3.6.1.4.1.19376.1.5.3.1.1.24) with the Retrieve Form transaction ITI-34.

X.1.1.2 Form Manager

The Form Manager is defined in the ITI RFD Profile. The Form Manger SHALL support XHTML.

350 The system fulfilling this role SHALL accept pre-pop data in the form of content defined by the Family Planning Document (FP) (1.3.6.1.4.1.19376.1.5.3.1.1.24) and return a form that has been appropriately pre-populated based on the mapping rules specified in this document (V3 6.3.1.D.4 Data Element Requirement Mappings for Form Pre-Population).

X.1.1.3 Form Receiver

355 The Form Receiver is defined in the ITI RFD Profile. No further requirements are placed on the Form Receiver within the scope of this profile.

X.1.1.4 Form Processor

The Form Processor is defined in the ITI RFD Profile. No further requirements are placed on the Form Processor within the scope of this profile.

360 X.2 FP Actor Options

FP Options that may be selected for each actor in this profile, if any, are listed in the Table X.2-1. Dependencies between options when applicable are specified in notes.

Actor	Option Name	Reference
Form Filler	Family Planning Pre-pop	X.2.1
Form Manager	None	
Form Receiver	None	
Form Processor	None	

Table X.2-1: FP - Actors and Options

365 X.2.1 Form Filler Family Planning Pre-Pop Option

A Form Filler implementing the Family Planning Pre-pop Option SHALL supply a Family Planning Pre-pop document when initiating the Retrieve Form (ITI-34) transaction. The pre-pop element in RFD SHALL NOT be nil.

X.3 FP Required Actor Groupings

370 There are no additional required groupings with actors.

X.4 FP Overview

Family Planning services provide individuals and couples with the information and means to exercise personal choice in determining the number, spacing, and timing of the births of children, when desired, and access to means of pregnancy prevention when children are not

- 375 desired. These services include contraceptive counseling and contraceptive methods to prevent pregnancy, pregnancy testing and counseling, preconception health counseling and services, basic infertility services to achieve pregnancy, sexually transmitted infection screening, diagnosis, and treatment, and related preventive health services. These services are designed to provide women and men with the highest standards of reproductive health care over the entire
- 380 life course and, for women and couples who desire pregnancy, with the opportunity to have safe pregnancies, births, and healthy infants. (*World Health Organization, US DHHS Title X*)

Pregnancy intention and contraceptive method are also essential health indicators for health care providers and administrators, academic researchers, non-profit advocacy organizations, and governmental entities. Standardized capture and recording of these methods across multiple

- 385 clinical settings and diverse medical record documentation would facilitate more efficient reporting and adherence to clinical guidelines. If a woman is not asked whether she wants to become pregnant in the next year and her contraceptive needs are not addressed she may leave the visit with no method or with one of the lesser effective methods. The clinician has missed an important clinical assessment of other health factors, and the patient may return a short time later
- 390 with an unintended pregnancy. Unintended pregnancies are at higher risk for poor health outcomes for both the mother and child. A different woman who desires pregnancy, but whose pregnancy intentions are not addressed, may not receive vital preconception information on smoking cessation, folic acid use, or STI (Sexually Transmitted Infection) screening. Men typically report to clinics seeking STI screening. This is an opportunity to conduct STI
- 395 education, such as the risks *chlamydia trachomatis* (CT) poses to women to ensure future healthy pregnancies. Alternatively, men in whose reproductive intention is unaddressed, may have undiagnosed low fertility and counseling would raise the possibility of diagnostic assessment and intervention options.

Health centers are currently challenged to accurately capture and record family planning data.
 Costs of the current inefficiencies are difficult to estimate due to the range of systems in use and variability within clinic settings. The vast majority of healthcare facilities would incur a range of costs associated with designing and implementing documentation of family planning services in their EMR systems. Adding custom fields may cause problems whenever the health center

upgrades to a new version of the software; these problems include additional time-consuming 405 testing, functionality issues, the need to update reports, and the need to recreate the field and corresponding difficulties using historical data. Another solution deployed has been to create dummy codes for contraception that are not standard across a network of health care providers, requires additional staff training and time, and prevents this vital data from being stored in the EMR alongside relevant clinical information.

410 EMR systems do not typically provide a method to capture pregnancy intention as structured data, thus a clinician may not discuss or record the patient's pregnancy plans or consider whether the contraceptive method aligns with the patient's desires. The location of EMR templates also generates confusion and interrupts workflow for clinical providers, resulting in a time-consuming attempt to enter information or simply skipping the assessment or documentation of

contraceptive needs of a patient. 415

> The benefit of creating a standardized Family Planning Profile would be to ensure that this important data is collected among reproductive-age patients in a systematic, structured, and more easily-extractable way. The ability to use EMR data to more accurately measure these variables would enable better estimates of the cost of unplanned pregnancies, the benefits of family

planning services, and assurance that compliant, high-quality services are delivered with 420 accountability. Improving the quality of standard data capture in this content domain helps accomplish the goal of using health information technology infrastructure to accomplish quality improvement.

Transactions and content for aggregate reports are out of scope for this profile, but are illustrative of the potential uses and data requirements needed for reporting. Future developments of this 425 specification will describe Form Receiver options to transmit messages and medical summaries to an Information Recipient.

X.4.1 FP Concepts

The Family Planning (FP) Profile will define structured data capture in forms to facilitate interoperable exchange of information important for program reporting requirements, 430 measurement of clinical quality, and monitoring and evaluation of family planning programs.

Similar Public Health interoperability challenges have been addressed using the IHE IT Infrastructure (ITI) committee's Retrieve Form for Data Capture (RFD) when the solution to information needs of myriad stakeholders with diverse information systems infrastructure is a

- 435 standards-based, content-specific mechanism for structured data capture. The RFD can be used with a wide variety of EMRs currently in use. The RFD would be gathered for every clinical encounter and thus unique to the patient-date event. Lab results, except for those that can be conducted in the clinic and HIV supplemental tests, are excluded. This RFD can eventually contribute to important social, behavioral, and medication information to Medical Summaries
- 440 and Continuity of Care Documents, using CDA constructs, delivered to patients and other providers. This IHE profile will support better alignment between EMRs and Public Health monitoring and evaluation programs by specifying the content and transactions to be used to capture and communicate Family Planning service and care data.

X.4.2 Use Cases

- 445 A patient presents for a health visit. The clinician documents in the EMR the family planning services provided and basic screening tests required to deliver high-quality care. The EMR also manages the relevant patient demographics supporting monitoring and evaluation (e.g., sex, age, ethnicity, race, payer). The clinic can also proactively triage and evaluate clinical performance metrics related to family planning services, (e.g., percentage of women of childbearing age in the
- 450 patient panel receiving family planning services) if these data elements are incorporated into a reporting and performance measurement system that interoperates with clinics' EMRs.

X.4.2.1 Use Case #1: FP Manual Data Entry

X.4.2.1.1 Use Case Description

A system implementing the Form Filler interacts with a Form Manager to provide a mechanism that allows users of the Form Filler system to manually enter structured data described in the Family Planning form. A patient presents to a health center and receives services consistent with a family planning encounter but the health center has an EMR system that cannot create a Family Planning Document for pre-pop. Staff would select the FP form, it would display as if the form were native to the EMR system, and staff would manually enter all data elements.

460 X.4.2.1.2 Processing Steps

X.4.2.1.2.1 Pre-conditions

The Form Filler has no access to family planning data elements and other clinical and demographic data needed to populate and construct a Family Planning document.

X.4.2.1.2.2 Main Flow

465 The Form Filler requests the family planning form.

The Form Filler presents the form for manual completion of the form.

The Form Filler submits the form.

The Form Receiver receives the submitted data.

X.4.2.1.2.3 Post-conditions

470 The data are made available to monitor data and clinical quality, and for evaluation purposes.

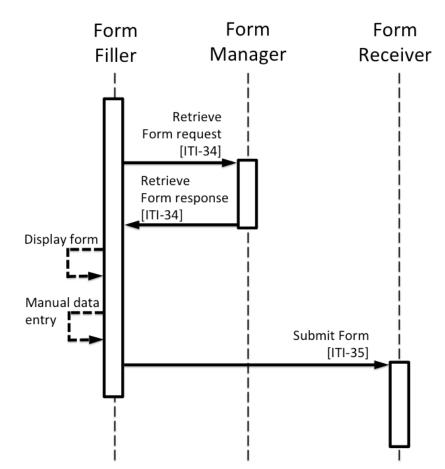


Figure X.4.2.1.1-2: Process Flow Diagram for Manual Data Entry

X.4.2.2 Use Case #2: FP with Pre-pop Option

475 X.4.2.2.1 Use Case Description

A system implementing the Form Filler interacts with a Form Manager to provide a mechanism that allows users of the Form Filler system to provide data needed to populate a Family Planning form. To minimize data entry, the Form Filler may provide a Family Planning Document (FP) which the Form Manager can use to pre-populate the form. As the scope expands, the Form Manager will re-package the data and disseminate it to a variety of content consumers using standard transactions.

X.4.2.2.2 Processing Steps

The provider EMR renders the Family Planning form providing a document from the pre-pop Family Planning document for Pre-population by the Form Manager. The provider completes the form, verifies the accuracy of all information, and submits the form.

480

X.4.2.2.2.1 Pre-conditions

The Form Filler has the capability to produce a Family Planning Document.

X.4.2.2.2.2 Main Flow

The Form Filler requests the Family Planning form and includes the Family Planning Pre-pop in the request.

The Form Manager provides a partially completed form for the current visit with pre-populated data elements described in Volume 3.

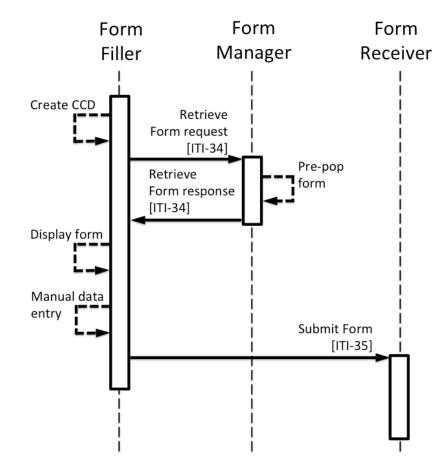
The user confirms that encounter data is correct as rendered by the Form Filler and adds any missing data.

495 The Form Filler submits the form.

The Form Receiver receives the submitted data.

X.4.2.2.2.3 Post-conditions

The data are made available for quality improvement measures.



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Figure X.4.2.2.1-2: Process Flow Diagram with Pre-pop Option

X.4.2.3 Use Case #3: FP with Pre-pop Option for Referral Confirmation

X.4.2.3.1 Use Case Description

- 505 A family planning client has received positive screening and positive supplemental testing that requires a medical visit with another health provider. The family planning service delivery site is responsible for documenting the positive findings, communicating this to the client, coordinating the referral, and confirming the date of the referred medical visit. The data from this form would be used to determine whether the visit was completed in a specified time. As new information is
- 510 received (e.g., positive supplemental testing, communications with the client, and confirmation of the completed referral) the family planning service delivery site saves the form at each step in the process and finally submits the form when the referral process has been completed.

Thus, if a family planning encounter results in activities outside that encounter (e.g., supplemental laboratory testing, referral coordination) then the form should be saved by the Form Filler (the family planning service delivery site's EMR) so that it can be retrieved and

updated at a later date. The Form Filler interacts with a Form Processor to provide a mechanism that allows users to save partially completed form data and submit the form data.

X.4.2.3.2 Processing Steps

The provider EMR renders the Family Planning form providing a document from the Family
 Planning Pre-pop by the Form Processor with information completed from the visit at which the need for a referral was documented. The provider verifies the accuracy of all information, adds information related to the referral process, and submits the form.

X.4.2.3.2.1 Pre-conditions

The Form Filler has the capability to produce a Family Planning document.

525 X.4.2.3.2.2 Main Flow

535

The Form Filler requests the Family Planning form and includes the Family Planning Pre-pop in the request.

The Form Processor provides a partially completed form for the current visit with pre-populated data elements described in Volume 3.

530 The user confirms that encounter data is correct as rendered by the Form Filler and adds any known missing data.

The user expects new information based on supplemental testing results that are not yet available and saves the form.

Sometime later the user receives supplemental test results that are positive and coordinates a referral to another provider. The user retrieves, updates, and saves the form data.

Sometime later the user receives confirmation of the completed referral visit. The user retrieves, updates, and submits the completed form data.

The Form Filler submits the form.

The Form Processor receives the submitted data.

540 **X.4.2.3.2.3 Post-conditions**

The data are made available for quality improvement measures.

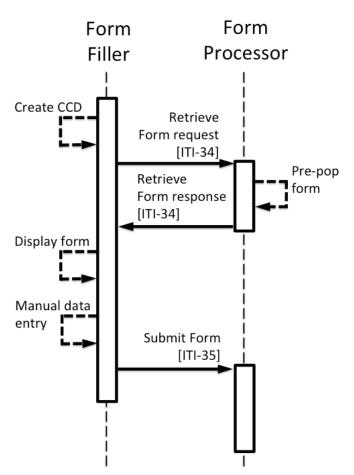


Figure X.4.2.3.1-2: Process Flow Diagram with Pre-pop Option

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X.5 FP Security Considerations

FP includes clinical content related to the patient. As such, it is anticipated that actions that include patient information will be protected. The IHE ITI ATNA Integration Profile SHOULD be implemented by all of the actors involved in the IHE transactions specified in this profile to protect node-to-node communication and to produce an audit trail of the actions that include patient information related actions when they exchange messages, though other private security mechanisms MAY be used to secure content within enterprise managed systems.

The Form Manager relies upon the information submitted in the request and therefore MAY request the inclusion of a digital signature using the ITI Document Digital Signature (DSG) to ensure the data are unaltered in transition. The Form Filler relies on the information provided in the response and MAY request a digital signature in the form response.

If the Form Manager includes information from another source, other than the Family Planning document, then Cross-Enterprise User Assertion (XUA) MAY be used to support secure

assertion of the identity of the user and the location to identify the data source. If the Form
 Manager needs to restrict access it may do so using XUA content to assert the identity of the user
 and location. The Form Receiver MAY request the identity of the Form Filler and may do so
 using XUA content to assert the identity of the user and location.

In some jurisdictions, consent may be needed to provide this information to public health. For these cases, the IHE ITI BPPC Integration Profile can be used to enable this consent management.

X.6 FP Cross Profile Considerations

Not applicable.

565

X.7 Data elements

This profile requires specific form data element content. That set of data that must be in the form 570 in the course of pre-pop and in the form of data export. Those data elements are described in Appendix B.

Volume 1 – Appendices

Appendix A – Family Planning Form

The following sample form is implemented using Excel. The sample *Generic Family Planning* 575 *Encounter Form* combines currently used concepts at some service delivery sites and data elements in this profile. This material is informative and not required of vendor implementations.

Facility		Provider & NPI	
Wellness Now 123 Main Street Muncie, IN	47383	CL Wilson, NP	1234567893
Patient Identifier & Name	Sex	Limited Language Proficie	
<u>·</u> ·	O Female	C English	Listening Reading
	○ Male	0ther	_ 🗆 Speaking 🗆 Writing
Ethnicity	Race (check all that apply)		
O Hispanic or Latina/o	American Indian / Alaska Native	Native Hawaiian or Othe	r Pacific Islander
Not Hispanic or Latina/o	🗆 Asian	White	
	Black / African American		
Annual Household Income	Primary Insurance		
s	O No insurance	O Private/group	○ Veteran/military
Household Size	Medicaid	O Medicare	O Other public
	🔾 Self-pay	О снір	0
Visit Date	1		Date of Birth
//	1		//
Height	Systolic	Smoking Status	
in / cm	5,5000	Never	O Smoker, unknown current
Weight	Diastolic	O Former	O Unknown
lbs / kg		Current daily	() Heavy
		Current some day	O Light
			0 -
Current Pregnancy Status (F Only)	Contraceptive Method - Intak	e	
🔿 Not Pregnant	🔿 Implant	Male Condom	○ EC
◯ Sterilized		 Diaphragm or cap 	O None
O Postmenopausal	 Female sterilization 	 Female condom 	Reason for None
O Pregnant - patient report	○ Vasectomy	O FAM	O Abstinence
O Pregnant - test	☐ Injectables	○ Withdrawal	Same sex partner
H Dent Denner (n. (C. a. b.)		O Spermicide	O Other
# Past Pregnancies (F only)	 Oral contraceptive pills Patch 	O Sponge	Seeking pregnancy
	* I I I	 M relying on F method Decline to answer 	Declined all methods
Pregnancy Intention next 12 months	Vaginal Ring Contraceptive Method - Exit	O becline to answer	1
		🔿 Male Condom	() EC
○ Not desired		O Diaphragm or cap	○ None
0	C Female sterilization	Female condom	Reason for None
Sexually Active Last 3 months	Vasectomy	Ŏ FAM	○ Abstinence
⊖ Yes	Injectables	🔾 Withdrawal	🔾 Same sex partner
Ō No		O Spermicide	Other
	Oral contraceptive pills	O Sponge	Seeking pregnancy
Last Pap (F only)	O Patch	O M relying on F method	 Declined all methods
//	🔾 Vaginal Ring	 Decline to answer 	
HPV Co-test Ordered (F only)	CT Ordered	GC Ordered	
//	//	//	_
HIV Screen Ordered	Referral Recommended	Referral Provider & Locat	ion
		incrementar rovider & Locat	
HIV Screen (Initial) Result		-	
	Referral Completed		
HIV Supplemental Result	//		
	-		

Generic Family Planning Encounter Form

Appendix B – Data Elements

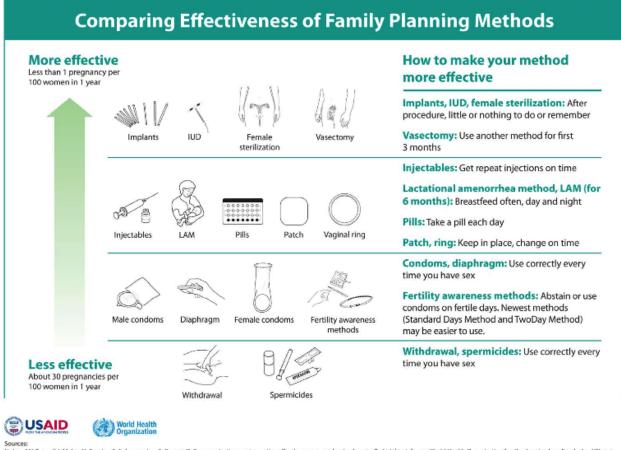
The following data elements are used in support of Family Planning programs. Details regarding optionality, structures, vocabularies, and value sets are documented in Volume 3:

Element	Description	
Facility identifier	Clinical site at which services were provided	
Clinical Provider identifier	The most senior clinical provider that provided services at the encounter	
Patient identifier	Patient's medical record number or other persistent, unique identifier within the site's tracking systems	
Visit Date	Date of the clinical encounter	
Date of Birth	Patient's date of birth	
Administrative Sex	Patient's sex per standard value set	
Pregnancy History	The total number of times a female patient has been pregnant, regardless of outcome of the pregnancy.	
Limited Language Proficiency	Patient requires care delivery in a language other than the national dominant language in 4 domains: listening, writing, reading, or speaking.	
Ethnicity	Patient's self-reported ethnicity per standard value set	
Race	Patient's self-reported race(s) per standard value set	
Annual Household Income	Patient's self-report of the numeric value of the annual household income where the patient resides	
Household Size	Patient's self-report of the numeric value of the total number of persons living in the household, including the client	
Visit Payer	Principal health insurance coverage (private or public), confidential visit, unknown or uninsured	
Current Pregnancy Status	Pregnancy status at visit as confirmed by a particular method	
Pregnancy Intention	Patient reports seeking pregnancy in the next year (including male client's report of seeking pregnancy with a female partner)	
Sexual Activity	Patient self-report of being sexually active in the past 3 months	
Contraceptive Method at Intake ¹	Patient report of most effective contraceptive method used at last sexual encounter	
Reason for no contraceptive method	Reason patient reported no contraceptive method used (at intake and exit)	
Contraceptive Method at Exit ¹	Contraceptive method(s) recommended or prescribed by provider to patient at the end of the visit, after counseling and assessment	
Date of Last Pap test	Date of last vaginal or cervical Pap test (self-report or lab result from this clinic or other clinic or date of this visit)	
HPV Co-test Ordered	Date a vaginal or cervical HPV Co-test was ordered related to findings from the current visit	
CT Screen Ordered	Date a <i>Chlamydia trachomatis</i> screen was ordered related to findings from the current visit	
GC Screen Ordered	Date a <i>Neisseria gonorrhoeae</i> screen was ordered related to findings from the current visit	
HIV Screen Ordered	Date HIV screen was ordered related to findings from the current visit	
HIV Rapid Screen Result	Result of rapid, initial HIV screen at the current visit per standard value set	

Element	Description
HIV Supplemental Result	Result of supplemental HIV test intended to confirm HIV status
Referral Recommended Date	A date at which a clinician identifies that a clinical or laboratory finding requires a referral to a different provider for a medical visit and the patient has been provided knowledge of that referral. The referred provider and location is summarized as well as any relevant diagnostic or billing codes that help document the need for the referral. This date would be considered the start date for a performance measure that evaluates the time that it takes for a necessary referral period to be completed.
Referral Visit Completed Date	The site that found a need for a referral receives documentation that the medical visit took place and enters the date of that visit. This date would be considered the end date for a performance measure that evaluates the time that it takes for a necessary referral period to be completed.
Systolic blood pressure	Systolic bp per mmHg with calibrated machine as preference but manual is allowed
Diastolic blood pressure	Diastolic bp per mmHg with calibrated machine as preference but manual is allowed
Height	Height value and units
Weight	Weight value and units
Smoking status	Smoking status per standard value set

Note: Null flavors are an option for many data elements. Null flavors include NI = No information (not reported), UNK = Unknown (proper value applicable but not known), ASKU = Asked but not known (refused to state).

¹Options for the contraceptive method data element should be displayed in order of Tiers of Effectiveness, as established by the World Health Organization (WHO) and the US Agency for International Development (USAID). It is the responsibility of the Form Manager to ensure that the form is structured such that when entering data manually, the form SHALL present contraception options in the WHO recommended order (see Figure B-1).



Schier MJ, Trussell J, Mehta N, Condon S, Subramaniam S, Bourne D. Communicating contraceptive effectiveness: a randomized controlled trial to inform a World Health Organization family planning handbook. Am J Obstet Gynecol 2006;195(1):85–91.

World Health (JRSPH)/Center for Communication Programs (CCP). Family Planning: A Global Anathback for Providers. Baltimore, MD and Geneva: CCP and WHO, 2007. Trussell J, Choosing a contraceptive: efficacy, safety, and personal considerations. In: Hatcher RA, Trussell J, Stewart F, Nelson AL, Cates W Jr., Guest F, Kowal D, eds. Contraceptive Technology, Nineteenth Revised Edition. New York: Ardent Media, Inc., in press.

Figure B-1: Tiers of Effectiveness for Family Planning Methods

595

Volume 2 – Transactions

There are no new transactions identified by this profile.

Appendices

None

Volume 2 Namespace Additions

600 Add the following terms to the IHE General Introduction Appendix G:

No new Volume 2 namespace additions.

Volume 3 – Content Modules

5 Namespaces and Vocabularies

605 *Add to Section 5 Namespaces and Vocabularies*

codeSystem	codeSystemName	Description
2.16.840.1.113883.6.1	LOINC	Logical Observation Identifier Names and Codes
2.16.840.1.113883.6.96	SNOMED-CT	Systematized Nomenclature Of Medicine Clinical Terms
2.16.840.1.113883.6.8	UCUM	Unified Code for Units of Measure

6 Content Modules

6.3.1 CDA Document Content Modules

Add to Section 6.3.1.D Document Content Modules

610 6.3.1.D1 Family Planning Pre-pop (FPP) Document Content Module

6.3.1.D1.1 Format Code

615

The XDSDocumentEntry format code for this content is **urn:ihe:qrph:fp:2013**

6.3.1.D1.2 Parent Template

This document is a specialization of the IHE PCC Medical Document template (OID = 1.3.6.1.4.1.19376.1.5.3.1.1.1).

Note: The Medical Document includes requirements for various header elements; name, addr and telecom elements for identified persons and organizations; and basic participations record target, author, and legal authenticator.

6.3.1.D1.3 Referenced Standards

All standards which are reference in this document are listed below with their common abbreviation, full title, and link to the standard.

Abbreviation	Title	URL				
CDAR2	HL7 CDA Release 2.0	http://www.hl7.org/documentcenter/private/standards/cda/r2/cda_r2_normativewebedition.zip				
CDTHP	CDA for Common Document Types History and Physical Notes (DSTU)	http://www.hl7.org/documentcenter/ballots/2007SEP/sup port/CDAR2_HPRPT_DSTU_2008AUG.zip				
IHE PCC TF vol. 2	IHE PCC Technical Framework, Volume 2	http://www.ihe.net/technical_frameworks/				
IHE PCC Content Modules	IHE PCC Content Modules	http://www.ihe.net/technical_frameworks/				
LOINC	Logical Observation Identifiers, Names and Codes	https://loinc.org/				
SNOMED-CT	Systematized Nomenclature of Medicine - Clinical Terms	http://www.ihtsdo.org/snomed-ct/				

Table 6.3.1.D1.3-1: Referenced Standards
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6.3.1.D1.4 Data Element Requirement Mappings

625 6.3.1.D1.4.1 Data Element Requirement Mappings to CDA

This section specifies the mapping of data from the specified form data elements for this profile into the Family Planning Pre-pop document. Table 6.3.1.D1.4-1 provides a high-level mapping from key Form Data Elements to Family Planning Pre-pop structures. Detailed data element mappings require realm-specific templates to be specified. See Volume 4 for available realm-specific detailed data element mappings.

Clinical Data Element	Optionality	CDA pseudo xPath		
Patient Identifier	R	recordTarget.patientRole.id		
Date of Birth	R	recordTarget.patientRole.patient.birthTime		
Administrative Sex	R	recordTarget.patientRole.patient.administrativeGenderCo de		
Language of Communication	R	recordTarget.patientRole.patient.languageCommunication		
Race	0	recordTarget.patientRole.patient.raceCode		
Ethnicity	0	recordTarget.patientRole.patient.ethnicGroupCode		
Clinical Provider	R	componentOf.encompassingEncounter.responsibleParty.a ssignedEntity		
Visit Date	R	componentOf.encompassingEncounter.effectiveTime		
Facility identifier	R	componentOf.encompassingEncounter.location.healthcare Facility		
Number of Total Pregnancies	R	PregnancyHistory.PregnancyHistoryOrganizer.Pregnancy Observation – Total Number of Pregnancies Code		
Current Pregnancy Status	R	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – Current Pregnancy Status Code		
Pregnancy Intention	R	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – Pregnancy Intention Code		
Sexual Activity	0	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – Sexual Activity Code		
Contraceptive Method at Intake	R	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – Current Contraceptive Method Code		
Reason for No Contraceptive Method at Intake	R2	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – No Contraceptive Reason Code		
Last Cervical Cancer Screen	R2	PregnancyStatusReview.PregnancyStatusOrganizer.Pregn ancyStatusObservation – Last Cervical Cancer Screen		
Contraceptive Method at Exit	R	CodedCarePlan.ObservationRequests		
Reason for No Contraceptive Method at Exit	R2	CodedCarePlan.ObservationRequests.Observation.EntryR elationship.Observation		
Chlamydia trachomatis Screen Order	R	CodedCarePlan.ObservationRequests		
Neisseria gonorrhoeae Screen Order	R	CodedCarePlan.ObservationRequests		

Table 6.3.1.D1.4-1: FPP-Data Element Mappings from CDA

Clinical Data Element	Optionality	CDA pseudo xPath
HIV Screen Order	R	CodedCarePlan.ObservationRequests
HIV Rapid Screen Result	R2	CodedResults.SimpleObservation
HIV Supplemental Result	0	CodedResults.SimpleObservation
Referrals Planned	R2	CodedCarePlan.Encounters
Referrals Completed	R2	HistoryOfOutpatientVisits
Height	R	VitalSigns.vitalSignsOrganizer.vitalSignsObservation – Height Code
Weight	R	VitalSigns.vitalSignsOrganizer.vitalSignsObservation – Weight Code
Systolic Blood Pressure	R	VitalSigns.vitalSignsOrganizer.vitalSignsObservation – Systolic Blood Pressure Code
Diastolic Blood Pressure	R	VitalSigns.vitalSignsOrganizer.vitalSignsObservation – Diastolic Blood Pressure Code
Smoking Status	R	CodedSocialHistory.SocialHistoryObservation – Smoking Status Code
Annual Household Income	R2	CodedSocialHistory.SocialHistoryObservation – Household Annual Income Code
Household Size	R2	CodedSocialHistory.SocialHistoryObservation – Household Size Code

6.3.1.D1.5 FPP Document Content Module Specification

635

Table 6.3.1.D1.5-1: Family Planning Document Content Module Specification

Template Name	Family Planning
Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.24
Parent Template	This document is a specialization of the IHE PCC Medical Document template (OID = 1.3.6.1.4.1.19376.1.5.3.1.1.1).
General Description	This document is a document to record family planning intentions, including pregnancy history, contraceptive method and sexually transmitted disease screening
Document Code	(Request LOINC document code)

Template Type	Template Title ¹		templateld ²	
Document	<u>FamilyPlanning</u>		1.3.6.1.4.1.19376.1.5.3.1.1.24	
Header	FamilyPlanning Header	[11]		
	recordTarget	[11]		
	Patient Identifier, Date of Birth, Gender	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.1	
	Race, Ethnicity	[01]	1.3.6.1.4.1.19376.1.5.3.1.1.1	
	Language of Communication	[11]	1.3.6.1.4.1.19376.1.5.3.1.2.1	
	Provider	[1*]	n/a	
	Visit Date	[11]	n/a	
	Healthcare Facility	[11]	n/a	
Section	Pregnancy History	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4	
Entry	Pregnancy History Observation - Number of Total Pregnancies		1.3.6.1.4.1.19376.1.5.3.1.4.13.5	
Section	Pregnancy Status Review		1.3.6.1.4.1.19376.1.5.3.1.1.9.47	
Entry	Pregnancy Status Review Organizer			
Entry	Pregnancy Status Review Observation Sexual Activity			
Entry	Pregnancy Status Review Observation - Current Pregnancy Status			
Entry	Pregnancy Status Review Observation - Current Pregnancy Intention	[11]		
Entry	Pregnancy Status Review Observation - Contraceptive Method on Intake	[11]		
Sub-Entry	Pregnancy Status Review Observation - Reason for No Contraceptive Method ³	[0*]		
Entry	Last Cervical Cancer Screen	[01]		
Section	Coded Vital Signs	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.2	
Entry	Vital Signs Organizer	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.1	
Entry	Vital Signs Observation – Height	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.2	
Entry	Vital Signs Observation – Weight	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.2	
Entry	Vital Signs Observation – Systolic Blood Pressure	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.2	
Entry	Vital Signs Observation – Diastolic Blood Pressure		1.3.6.1.4.1.19376.1.5.3.1.4.13.2	
Section	Coded Social History	[11]	1.3.6.1.4.1.19376.1.5.3.1.3.16.1	

¹ If multiple data elements are listed in one row then this is because those data elements are grouped in the template. ² Data types are implicit in the template id. Refer to template id for data types.

³ Note that this field must be present if the Contraceptive Method on Intake or at Exit is "None", or a null flavour. If there is a Contraceptive Method on Intake, this entry may be omitted.

Template Type	Template Title ¹	Opt and Card	templateld ²
Entry	Social History Observation – Smoking Status	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Entry	Social History Observation - Household Income	[0*]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Entry	Social History Observation - Household Size	[0*]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Section	Coded Care Plan	[11]	1.3.6.1.4.1.19376.1.5.3.1.3.36
Entry	Contraceptive Method on Visit Exit Order		1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1
Sub-Entry	Reason for No Contraceptive Method ³	[0*]	
Entry	Chlamydia trachomatis Screen Order	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1
Entry	Neisseria gonorrhoeae Screen Order	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1
Entry	HIV Screen Order	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1
Section	Coded Care Plan	[01]	1.3.6.1.4.1.19376.1.5.3.1.3.36
Entry	Recommended Encounters/Referrals	[0*]	1.3.6.1.4.1.19376.1.5.3.1.4.14
Section	Coded Results	[01]	1.3.6.1.4.1.19376.1.5.3.1.3.28
Entry	HIV Screen Rapid Result	[01]	1.3.6.1.4.1.19376.1.5.3.1.4.13
Entry	HIV Supplemental Result	[01]	1.3.6.1.4.1.19376.1.5.3.1.4.13
Section	History of Outpatient Visits	[01]	1.3.6.1.4.1.19376.1.5.3.1.3.9
Section	Payers	[01]	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.7

640 6.3.1.D1.5.1 General Document Constraints

6.3.1.D1.6 FP Example

6.3.2 CDA Header Content Modules

6.3.3 CDA Section Content Modules

645 Add to Section 6.3.3.10 Section Content Modules

(CP to change Pregnancy Status Review Section)

6.3.3.10.S1 Pregnancy Status Review Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.47

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.47		
General Description	The Pregnancy Status Review Section shall contain a description of the responses the patient gave to a set of routine questions regarding potential pregnancy in females of child-bearing-age. It shall include a Pregnancy Status Organizer.		
LOINC Code	Opt	Description	

11449-6	R	Pregnancy Status-Reported	
Entries	Opt	Description	
TBD	R	Pregnancy Status Review Organizer	

6.3.3.10.S2 Coded Social History Section 1.3.6.1.4.1.19376.1.5.3.1.3.16.1

650 The Coded Social History Section for the Family Planning Profile SHALL be encoded as in the IHE PCC Technical Framework Volume 2, except as listed below.

It SHOULD contain Social History Observations with the codes and optionalities in Table 6.3.3.10.S2-1.

Code	Code System	Description	Opt	Туре	Units or Concept Domain	
229819007	SNOMED- CT	Smoking	R	PQ	{pack}/d or {pack}/wk or {pack}/a	
224168007	SNOMED- CT	Household Income	0	INT	N/A	
224525003	SNOMED- CT	Household Size	0	INT	N/A	

 Table 6.3.3.10.S2-1: Social History Observation Codes

655

6.3.3.10.S3 Coded Care Plan Section 1.3.6.1.4.1.19376.1.5.3.1.3.36

6.3.3.10.S3.1 Coded Care Plan Observation (1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1)

Observation Entries in the Coded Care Plan for the Family Planning Profile SHALL be encoded as in the IHE PCC Technical Framework Volume 2, except as listed below

660 6.3.3.10.S3.1.1 <code code=" " displayName=" " codeSystem=" " codeSystemName="/>

The <code> element identifies the type care plan observation and SHALL be encoded using values from a value set bound to the concept domain UV_ObservationType

6.3.3.10.S3.2 Coded Care Plan Medication (1.3.6.1.4.1.19376.1.5.3.1.4.7)

665 Medication Entries in the Coded Care Plan for the Family Planning Profile SHALL be encoded as in the IHE PCC Technical Framework Volume 2, except as listed below

6.3.3.10.S3.2.1 <code code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '> <originalText><reference value=' '/></originalText></code>

670 The <code> element of the <consumable><manufacturedMaterial> within a Medication Entry describes the medication. For the Family Planning Profile, this SHALL be encoded using values from a value set bound to the concept domain UV_ContraceptiveType

6.3.3.10.S4 Coded Care Plan Procedures (1.3.6.1.4.1.19376.1.5.3.1.4.19)

Coded Care Plan Procedures for the Family Planning Profile SHALL be encoded as in the IHE
 PCC Technical Framework Volume 2, except as listed below

6.3.3.10.S4.1 <code code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '>

<originalText><reference value=' '/></originalText></code>

The Procedure entry in the Family Planning Profile is used to record the contraceptive method at exit, when such method is a procedure. For the Family Planning Profile, the code element of the procedure SHALL be encoded using values from a value set bound to the concept domain UV_ContraceptiveType.

6.3.3.10.S5 Coded Care Plan Encounters (1.3.6.1.4.1.19376.1.5.3.1.4.14)

Coded Care Plan Encounters for the Family Planning Profile SHALL be encoded as in the IHE
 PCC Technical Framework Volume 2, except as listed below

6.3.3.10.S5.1 <encounter classCode='ENC' moodCode='APT|ARQ|EVN'>

This element is a referral, that is, a requested encounter. The classCode shall be 'ENC'. The moodCode shall be ARQ to describe a request for an appointment that has been made but not yet scheduled by a provider.

690 <id root="extension="/>

6.3.3.10.S6 Simple Observations (1.3.6.1.4.1.19376.1.5.3.1.4.13)

Simple Observations in the Results Section for the Family Planning Profile SHALL be encoded as in the PCC Technical Framework Volume 2, except as listed below

6.3.3.10.S6.1 <code code=' ' displayName=' ' codeSystem=' ' codeSystemName=' 695 '>

<originalText><reference value=' '/></originalText></code>

The code element of the simple observation SHALL be encoded using values from a value set bound to the concept domain UV_ResultType. It values in this value set represent the lab tests being ordered as a result of the visit.

700 6.3.4 CDA Entry Content Modules

6.3.4.E1 Pregnancy Status Review Organizer (OID TDB)

The pregnancy status review organizer collects observations of the responses the patient gave to a set of routine questions regarding potential pregnancy in females of child-bearing-age.

6.3.4.E1.1 Specification

705	<organizer classcode="CLUSTER" moodcode="EVN"></organizer>
	<templateid root=""></templateid>
	<id extension="" root=""></id>
	<code <="" code="" displayname="" th=""></code>
710	codeSystem=''
710	codeSystemName=''/>
	<statuscode code="completed"></statuscode>
	<effectivetime value=""></effectivetime>
	· · · · · · · · · · · · · · · · · · ·
	One or more components
715	-
/15	<component typecode="COMP"></component>
	Or a pregnancy status observation
	<observation classcode="OBS" moodcode="EVN"></observation>
	<templateid root=""></templateid>
	:
720	

6.3.4.E1.2 <organizer classCode='CLUSTER' moodCode='EVN'>

725 The pregnancy status review organizer is a cluster of pregnancy status review observations.

6.3.4.E1.3 <templateld root="/>

The pregnancy status review organizer shall have the <templateId> element shown above to indicate that it conforms to this specification.

6.3.4.E1.4 <id root=' ' extension=' '/>

730 The organizer shall have an <id> element.

6.3.4.E1.5 <code code=" displayName=" codeSystem=" codeSystemName="/>

The organizer shall contain a code describing the observations present. The recommended code is shown above.

6.3.4.E1.6 <statusCode code='completed'/>

The observations have all been completed.

6.3.4.E1.7 <effectiveTime value=' '/>

The effective time element shall be present to indicate the interval of the pregnancy statusreview.

6.3.4.E1.8 <component typeCode='COMP'>

The organizer shall have one or more <component> elements that are instances of pregnancy status review observations.

6.3.4.E2 Pregnancy Status Review Observation (OID HERE)

745 A pregnancy Status Review observation is a Simple Observation that uses a specific vocabulary to record observations about a patient's current pregnancy status.

6.3.4.E2.1 Parent Template

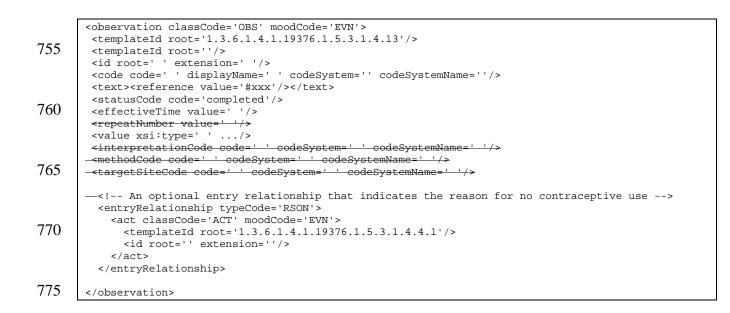
The parent of this template is <u>Simple Observation</u>.

6.3.4.E2.1.1 Uses

750 See <u>Templates using Pregnancy Status Review Observation</u>.

6.3.4.E2.2 Specification

Pregnancy Status Review Observation Example



6.3.4.E2.3 <templateld root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/> <templateld root=''/>

These <templateId> elements identify this <observation> as a pregnancy status review
 observation, allowing for validation of the content. The <templateId> elements shall be recorded as shown above.

6.3.4.E2.4 <code code=' ' displayName=' ' codeSystem=" codeSystemName='/>

785 A pregnancy status observation shall have a code describing what facet of patient's pregnancy status is being recorded. These codes should come from the list of codes shown below. Additional codes may be used to reflect additional information about the pregnancy status.

Code	Description	Туре	Units or Concept Domain
TBD	Sexual Activity	PQ	{ }/d or { }/wk or { }/a
11449-6	Current Pregnancy Status	CD	UV_CurrentPregnancyStatus
TBD	Current Pregnancy Intention	BL	
TBD	Contraceptive Method on Intake	CD	UV_ContraceptiveType
TBD	Last Cervical Cancer Screen	TS	N/A

 Table 6.3.4.E2.4-1: Pregnancy Status Review Observation Codes

790 6.3.4.E2.5 <repeatNumber value=' '/>

The <repeatNumber> element should not be present in a pregnancy status review observation.

6.3.4.E2.6 <value xsi:type=' ' .../>

The value of the observation shall be recording using a data type appropriate to the coded observation according to the table above.

795 6.3.4.E2.7 <interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/> <methodCode code=' ' codeSystem=' ' codeSystemName=' '/> <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>

The <interpretationCode>, <methodCode>, and <targetSiteCode> should not be present in a pregnancy status review observation.

800 6.3.4.E2.8 <entryRelationship typeCode='RSON'>

A pregnancy status review <observation> event may indicate one or more reasons for the observation. In particular, the pregnancy status review observation of Contraceptive Type requires a reason, if the contraceptive type is "none". This entry shall contain one or more observation entries that conform to the specification in section Simple Observation of the PCC

805 Technical Framework and should use the code and concept domain below.

Code	Description	Туре	Units or Concept Domain
TBD	Reason for no Contraceptive Method	CD	UV_NoContraceptiveReason

Section not applicable 6.4

This heading is not currently used in a CDA document.

List of Concept Domains 6.5

UV Concept Domain		
Pregnancy Status Review Section		
UV_ContraceptiveType		
UV_NoContraceptiveReason		
UV_CurrentPregnancyStatus		
Family Planning Coded Care Plan		

⁸¹⁰ Add to Section 6.5 Value Sets

UV_ContraceptiveType		
Results		
UV_ResultType		

815 6.5.1 UV_ContraceptiveType (OID TBD)

This Concept Domain holds a list of coded results for contraceptive types for use in Family Planning.

Concept Name		
Implant		
IUD/IUS		
Female sterilization		
Vasectomy		
Injectables		
LAM		
Oral contraceptive pills		
Patch		
Vaginal Ring		
Male Condom		
Diaphragm or cap		
Female Condom		
FAM		
Withdrawal		
Spermicide		
Sponge		
Male relying on female method		
Decline to answer		
Emergency Contraception		
None		

820 6.5.2 UV_NoContraceptiveReason (OID TBD)

This Concept Domain holds a list of concepts for the reason no contraceptive is used by the patient for use in Family Planning.

Concept Name
Abstinence
Same sex partner
Other
Seeking pregnancy
Declined all methods

825 6.5.3 UV_CurrentPregnancyStatus (OID TBD)

This Concept Domain holds a list of concepts for the current pregnancy status of the patient for use in Family Planning.

Concept Name		
Not Pregnant		
Sterilized		
Postmenopausal		
Pregnant, by patient report		
Pregnant, by test result		

830 6.5.4 UV_ResultType (OID TBD)

This Concept Domain holds a list of concepts for the result types for use in Family Planning

Concept Name		
HIV Rapid Screen Result		
HIV Supplemental Result		

Volume 4 – National Extensions

835 Add appropriate Country Section

840

4 National Extensions

4.R1 National Extensions for US Realm

The national extensions documented in this section shall be used in conjunction with the definitions of integration profiles, actors, and transactions provided in Volumes 1-3 of the IHE QRPH Family Planning Supplement.

The Title X Family Planning program, administered by the United States Department of Health and Human Services (DHHS) Office of Population Affairs (OPA), is the only federal program solely dedicated to the provision of contraceptive services and related preventive health services in the United States. The purpose of a family planning encounter is to provide family planning

- and related preventive health services to female and male clients who want to avoid unintended pregnancies or achieve intended pregnancies. Currently key performance and utilization data on approximately 5 million patients seen in 4,200 family planning clinical settings annually are assessed through a siloed, aggregate reporting system with a long time lag. Reporting sites also use a variety of paper and electronic methods to maintain data and then submit performance and
- 850 utilization reports. OPA would like to move to an encounter-level reporting system with closer to real-time data submission that can improve the networks' ability to monitor data submissions and data quality and can improve the quality of family planning services through standard assessment and performance metric feedback. There are also method effectiveness measures that are being pilot tested for eventual submission to the National Quality Forum for consideration as an NQF-
- 855 endorsed health quality outcome measure. Data capture about some FP methods and services currently exists in IHE profiles related to post-partum events, but quality data regarding contraceptive methods, STI screening, and pregnancy intention are applicable to a wider patient population.

Finally, OPA is interested in standardizing the way in which pregnancy intention, current
contraceptive use, and other variables required for the Family Planning Annual Report (FPAR) is
entered into and pulled directly from EMR and Electronic Practice Management (EPM) systems
in use by the clinics who receive Title X funding. We envision that the future FPAR system,
managed by an intermediary health information technology and services provider, will therefore
need to be an exchange system requiring interoperability with the multitude of EMR and EPM
systems in use in a diverse, national network.

This section includes extensions and restrictions to effectively support the regional practice of healthcare in the United States.

4.R1.1 Comment Submission

This national extension document was authored under the sponsorship and supervision of Title 870 X, who welcome comments on this document. Comments should be directed to:

US Department of Health and Human Services

Office of Population Affairs

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4.R1.2 Family Planning (FP)

All requirement of the Family Planning Profile in the US Realm are as specified in Volumes 1-3 of the IHE Technical Framework, with the exception of those listed below. Due to the anticipated excess burden of reporting negative HIV screening results in areas of low prevalence, only positive tests are required reporting in the Title X Family Planning Annual Report.

4.R1.2.1 Family Planning Document Content Module Specification

Template Type	Template Title	Opt and Card	templateld
Document	FamilyPlanning		
Header	FamilyPlanning Header	[11]	
	Race, Ethnicity	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.1
Section	Coded Social History	[11]	1.3.6.1.4.1.19376.1.5.3.1.3.16.1
Entry	Social History Observation – Smoking Status	[11]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Entry	Social History Observation - Household Income	[01]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Entry	Social History Observation - Household Size	[01]	1.3.6.1.4.1.19376.1.5.3.1.4.13.4
Section	Payers	[11]	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.7

4.R1.3 FP Value Set Binding for US Realm Concept Domains

UV Concept Domain	US Realm Vocabulary Binding or Single Code Binding	Value Set OID
Header		
FP_Race	US_Race	2.16.840.1.114222.4.11.7204
FP_Ethnicity	US_Ethnicity	2.16.840.1.114222.4.11.6066
FP_Payers	US_Payers	2.16.840.1.114222.4.11.3591

890 **4.R1.3.1 US_Race (2.16.840.1.114222.4.11.7204)**

This value set holds a list of values for race for use in Family Planning and should allow for multiple options to be selected for one patient.

Code	Concept Name	Code System Name	Code System OID
1002-5	American Indian or Alaska Native	Race Category including Refused	2.16.840.1.114222.4.11.7204
2028-9	Asian	Race Category including Refused	2.16.840.1.114222.4.11.7204
2054-5	Black or African American	Race Category including Refused	2.16.840.1.114222.4.11.7204
2076-8	Native Hawaiian or Other Pacific Islander	Race Category including Refused	2.16.840.1.114222.4.11.7204
2131-1	Other Race	Race Category including Refused	2.16.840.1.114222.4.11.7204
PHC1175	Refused to answer	Race Category including Refused	2.16.840.1.114222.4.11.7204
UNK	Unknown	Race Category including Refused	2.16.840.1.114222.4.11.7204
2106-3	White	Race Category including Refused	2.16.840.1.114222.4.11.7204

4.R1.3.2 US_Ethnicity (2.16.840.1.114222.4.11.6066)

This value set holds a list of values for ethnicity for use in Family Planning.

Code	Concept Name	Code System Name	Code System OID
Н	Hispanic or Latino	Ethnic Group (HL7)	2.16.840.1.113883.12.189
Ν	Not Hispanic or Latino	Ethnic Group (HL7)	2.16.840.1.113883.12.189
U	Unknown	Ethnic Group (HL7)	2.16.840.1.113883.12.189

4.R1.3.3 US_PAYERS (2.16.840.1.114222.4.11.3591)

This value set holds the list of values for payer type for use in Family Planning.

Code	Concept Name	Code System Name	Code System OID
33	Indian Health Service or Tribe	Source of Payment Typology	2.16.840.1.113883.3.221.5
2	MEDICAID	Source of Payment Typology	2.16.840.1.113883.3.221.5
23	CHIP	Source of Payment Typology	2.16.840.1.113883.3.221.5
1	MEDICARE	Source of Payment Typology	2.16.840.1.113883.3.221.5
99	No Topology Code available for payment source	Source of Payment Typology	2.16.840.1.113883.3.221.5
38	Other Government (Federal, State, Local not specified)	Source of Payment Typology	2.16.840.1.113883.3.221.5
5	PRIVATE HEALTH INSURANCE	Source of Payment Typology	2.16.840.1.113883.3.221.5
81	Self-pay	Source of Payment Typology	2.16.840.1.113883.3.221.5
311	TRICARE (CHAMPUS)	Source of Payment Typology	2.16.840.1.113883.3.221.5
9999	Unavailable/Unknown	Source of Payment Typology	2.16.840.1.113883.3.221.5