

Clinical Decision Support (CDS) Content and Health Level 7 (HL7)- Compliant Knowledge Artifacts (KNARTs)

Women's Health: Well-Woman Visit Clinical Content White Paper

Department of Veterans Affairs (VA)



**Knowledge Based Systems (KBS)
Office of Informatics and Information Governance (OIIG)
Clinical Decision Support (CDS)**

Clinical Decision Support (CDS) Content and Health Level 7 (HL7)-Compliant Knowledge Artifacts (KNARTs): Women's Health: Well-Woman Visit Clinical Content White Paper

by Department of Veterans Affairs (VA)

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Table 1. Relevant KNART Information: Women's Health: Well-Woman Visit KNART

KNART Name	Associated CLIN
Well-Woman Visit - Documentation Template	CLIN0009DA

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Introduction

The VA is committed to improving the ability of clinicians to provide care for patients while increasing quality, safety, and efficiency. Recognizing the importance of standardizing clinical knowledge in support of this goal, VA is implementing the Health Level 7 (*HL7*) Knowledge Artifact Specification for a wide range of VA clinical use cases. Knowledge Artifacts, referred to as (*KNARTs*), enable the structuring and encoding of clinical knowledge so the knowledge can be integrated with electronic health records to enable clinical decision support.

The purpose of this Clinical Content White Paper (*CCWP*) is to capture the clinical context and intent of *KNART* use cases in sufficient detail to provide the *KNART* authoring team with the clinical source material to construct the corresponding knowledge artifacts using the HL7 Knowledge Artifact Specification. This paper has been developed using material from a variety of sources: VA artifacts, clinical practice guidelines, evidence in the body of medical literature, and clinical expertise. After reviewing these sources, the material has been synthesized and harmonized under the guidance of VA subject matter experts to reflect clinical intent for this use case.

Unless otherwise noted, items within this white paper (e.g., documentation template fields, orderable items, etc.) are chosen to reflect the clinical intent at the time of creation. To provide an exhaustive list of all possible items and their variations is beyond the scope of this work.

Conventions Used

Conventions used within the knowledge artifact descriptions include:

<obtain>: Indicates a prompt to obtain the information listed

- If possible, the requested information should be obtained from the underlying system(s). Otherwise, prompting the user for information may be required
- The technical and clinical notes associated with a section should be consulted for specific constraints on the information (e.g., time-frame, patient interview, etc.)
- Default Values: Unless otherwise noted, <obtain> indicates to obtain the most recent observation. It is recognized that this default time-frame value may be altered by future implementations

[...]: Square brackets enclose explanatory text that indicates some action on the part of the user, or general guidance to the clinical or technical teams. Examples include, but are not limited to:

[Begin ...], [End ...]: Indicates the start and end of specific areas to clearly delineate them for technical purposes.

[Activate ...]: Initiates another knowledge artifact or knowledge artifact section.

[Section Prompt: ...]: If this section is applicable, then the following prompt should be displayed to the user.

[Section Selection Behavior: ...]: Indicates technical constraints or considerations for the selection of items within the section.

[Attach: ...]: Indicates that the specified item should be attached to the documentation template if available.

[Link: ...]: Indicates that rather than attaching an item, a link should be included in the documentation template.

[Clinical Comment: ...]: Indicates clinical rationale or guidance.

[Technical Note: ...]: Indicates technical considerations or notes.

[If ...]: Indicates the beginning of a conditional section.

[Else, ...]: Indicates the beginning of the alternative branch of a conditional section.

[End if ...]: Indicates the end of a conditional section.

☐[Check boxes]: Indicate items that should be selected based upon the section selection behavior.

Chapter 1. Women's Health: Well-Woman Visit

[Begin Women's Health: Well-Woman Visit.]

1.1. Clinical Context

[Begin Clinical Context.]

Annual well woman visits provide an important opportunity for providers to identify health risks, screen for conditions, provide preventive care, and counsel patients. Well woman visits should include guideline-based evaluations and services based on individual and age-related risk factors. These visits consist of four components: screening, testing, evaluation and counseling, and immunizations [The American College of Obstetricians and Gynecologists (ACOG) 2017].

This Well-Woman documentation template is required to be bundled with the Reproductive Health documentation template in order to capture and document comprehensive information collected during a well-woman visit.

[Clinical Comment: The Well-Woman Visit Documentation Template is intended to allow for guidelines-based efficient documentation of a well-woman visit, stratified by age category. Well visits, as opposed to visits that focus on acute and and/or chronic conditions, focus on preventive care and include the clinical provider taking a medical history of the patient, performing a history-based physical exam, conducting guideline-based preventive care according to age, ensuring that immunizations are current, and providing education and counseling.]

Table 1.1. Clinical Context Domains

Target User	Provider to include Primary Care, Gynecologists, and designated Women's Health clinical providers to include Allied Health Professionals
Patient	Female that is at least 13 years of age or older
Priority	Routine
Specialty	Primary Care, Gynecology, and Women's Health Services
Location	Outpatient

[End Clinical Context.]

1.2. Knowledge Artifacts

[Begin Knowledge Artifacts.]

The CDS knowledge artifact that defines this clinical use case is described in detail in the following sections and includes:

- Women's Health: Well-Woman Visit - Documentation Template KNART
 - Provides a guide for documenting the appropriate information for collection during a well-woman visit
 - Includes logic for the appropriate display of the documentation sections
 - Link to Women's Health: Reproductive Health - Documentation Template KNART

[End Knowledge Artifacts.]

[End Women's Health: Well-Woman Visit.]

Chapter 2. Women's Health: Well-Woman Visit Documentation Template

[Begin Women's Health: Well-Woman Visit Documentation Template.]

2.1. Knowledge Narrative

[Begin Knowledge Narrative.]

[See Clinical Context in Chapter 1.]

[Technical Note: The Documentation template shall:

1. Allow for the efficient documentation of a well-woman visit.
2. Adjust content presented to the clinician based on the age and risk factors of the individual patient, displaying only those items appropriate for that patient.
3. Integrate or link corresponding KNART documentation templates, Event Condition Action (ECA) rules, and order-sets for the items that are reusable across content.
4. Prepopulate with existing data from the patient's electronic medical record for review and editing by the clinical provider.]

[End Knowledge Narrative.]

2.2. Well-Woman Visit

[Begin Well-Woman Visit.]

[Technical Note: The template will be structured as follows, with components appropriate to the patient's age and risks. (See Appendix A for age-stratification of each of the components.)]

[Technical Note: The clinical provider will be presented only with the documentation template section that is appropriate for the patient's age. The data elements for each age-specific category are listed below for review and authoring purposes.]

[End Well-Woman Visit.]

2.3. Age ≥ 13 years old to < 19 years old

[Begin Age ≥ 13 years old to < 19 years old.]

[Technical Note: This section should be provided for patients who are ≥ 13 years old to < 19 years old.]

2.3.1. Screening

[Begin Screening.]

2.3.1.1. History

[Begin History.]

[Technical Note: Information that can be obtained from the electronic medical record should prepopulate the template fields in a manner that is apparent to the clinical provider.]

[Section Prompt: Visit Reason/Chief Complaint.]

<obtain> Description

[Section Prompt: Menstrual History.]

[Section Prompt: Age of Menarche?]

<obtain> Age

[Section Prompt: Date of Last Menstrual Period (LMP)?]

<obtain> Date

[Section Prompt: Menstrual Cycle Pattern?]

[Section Selection Behavior: Select one. Required.]

☐ Regular

<obtain> Cycle duration (Days)

<obtain> Flow duration (Days)

☐ Irregular

<obtain> Details

[Section Prompt: Menstrual Symptoms.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Additional Menstrual History.]

<obtain> Details

[Section Prompt: Reproductive History.]

<obtain> Gravidity (Total Number of Pregnancies regardless of outcome)

<obtain> Parity (Number of pregnancies reaching 20 weeks and 0 days of gestation or beyond)

<obtain> Other Relevant Reproductive History

[Technical Note: Link to the Reproductive Health KNART.]

[Section Prompt: Gender Identity.]

<obtain> Gender Identity

[Section Prompt: Sexual History.]

[Section Prompt: Sexually Active?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

☐ No

<obtain> Details

<obtain> Sexual Orientation

[Technical Note: If "No" to "Sexually Active," then do not display the following 2 questions.]

[Section Prompt: Sexual practices.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Vaginal sex

☐ Anal sex

☐ Oral sex

☐ Other

[Section Prompt: Types of Sexual Partner(s).]

[Section Selection Behavior: Select any. Optional.]

☐ Men

☐ Women

☐ Both

☐ None

<obtain> Number of Sexual Partners

[Section Prompt: Prior sexually transmitted infections?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

<obtain> Details

☐ No

<obtain> Types of Contraceptives/Sexually Transmitted Infection Prevention Used

[Section Prompt: High-risk sexual behaviors?]

[Section Prompt: High-risk sexual behaviors are defined as having multiple or casual sex partners without the use of protective behaviors (e.g., condom use) as well as sex in exchange for money or drugs.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Medical History.]

<obtain> Medical History

[Section Prompt: Medication History, including use of complementary and alternative medicine.]

<obtain> Current Medications—Prescription

<obtain> Current Medications—Nonprescription

[Section Prompt: Surgical History.]

[Technical Note: Enable entry of multiple surgeries for a patient.]

<obtain> Surgical Procedure

<obtain> Surgical Date

[Section Prompt: Family Health History.]

<obtain> Family Health History

[Technical Note: Link to Family Health History KNART.]

[Section Prompt: Nutrition History.]

<obtain> Nutrition

[Section Prompt: Physical Activity History.]

<obtain> Physical Activity

[Section Prompt: Social History.]

[Section Prompt: Substance Use History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Current or former tobacco user

<obtain> Link to Tobacco Screening and Cessation Counseling KNART

[Technical Note: Link to Tobacco Assessment and Cessation Counseling Documentation template KNART.]

<obtain> Details

☐ Alcohol Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Rehabilitation or detoxification

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Cocaine Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Other substance use history

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

[Section Prompt: Housing-related issues.]

[Section Prompt: Select any or none. Optional.]

☐ Homeless

<obtain> Details

[Technical Note: Link to Homelessness Documentation Template KNART.]

☐ Unstable Home Environment

<obtain> Details

☐ Geographically Remote (40+ Mile Drive to Medical Care)

<obtain> Details

[Section Prompt: Neglect and Abuse History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Yes

☐ Sexual

<obtain> Details

☐ Physical

<obtain> Details

☐ Emotional

<obtain> Details

☐ No

[Section Prompt: Additional Social History.]

<obtain> Details

[End History.]

2.3.1.2. Physical Exam

[Begin Physical Exam.]

[Section Prompt: Physical Exam.]

<obtain> Height in Inches

<obtain> Weight in Pounds

<obtain> Body Mass Index (kg/m²)

[Technical Note: Body mass index (BMI) should be calculated and provided above in kilograms per square meter (kg/m²), using the formula $BMI = 703 \times \text{weight (pounds)} / \text{height (inches)}^2$.]

<obtain> Systolic Blood Pressure

<obtain> Diastolic Blood Pressure

<obtain> Tanner Stage

<obtain> Abdominal Examination

<obtain> Pelvic Examination (as Indicated by History)

<obtain> Other Physical Exams (as Indicated by History)

[End Physical Exam.]

[End Screening.]

2.3.2. Testing

[Begin Testing.]

[Section Prompt: Chlamydia and Gonorrhea Testing.]

[Section Prompt: ACOG recommends testing of all adolescents who are sexually active.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Chlamydia

☐ Gonorrhea

[Section Prompt: Testing Based on Risk.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Human Immunodeficiency Virus (HIV)

☐ Hepatitis B Virus

☐ Hepatitis C Virus

☐ Tuberculosis (TB) Skin Test

☐ Diabetes Testing

☐ Fasting Plasma Glucose (FPG)

☐ 75-g Oral Glucose Tolerance Test (OGTT) with 2-Hour Plasma Glucose (2-h PG)

☐ Hemoglobin A1c

☐ Hemoglobin level

☐ Lipid Panel

☐ Colorectal Cancer Screening

[Section Prompt: Colorectal Cancer Screening is indicated for patients with family history of familial adenomatous polyposis or 8 years after the start of pancolitis.]

[Technical Note: Link to Colorectal Cancer Screening KNART.]

☐ Genetic Counseling/Testing

[Section Prompt: Genetic Counseling/Testing is indicated based on personal risk factors.]

<obtain> Test(s)

[End Testing.]

2.3.3. Counseling

[Begin Counseling.]

[Section Prompt: Please identify the counseling provided during a well-woman visit.]

[Section Selection Behavior: Select one or more. Optional.]

[Section Prompt: Sexuality Counseling provided.]

- ☐ Sexual Development
- ☐ Safe Sexual Practices including barrier protection
- ☐ Reproductive Health

[Section Prompt: Including Preventing unwanted/unintended pregnancy and Contraceptive options.]

[Technical Note: Link to Reproductive Health KNART.]

- ☐ High-Risk Sexual Behaviors, Sexually Transmitted Infections (STIs) and Barrier Protection, Acquaintance Rape Prevention
- ☐ Postponing Sexual Involvement
- ☐ Internet and Phone Safety

[Section Prompt: Physical Activity/Nutrition Counseling provided.]

- ☐ Physical Activity
- ☐ Eating Disorders and Obesity
- ☐ Multivitamin and Folic Acid
- ☐ Folic Acid supplementation
- ☐ Review Calcium Intake

[Section Prompt: Substance Abuse/Abuse Counseling provided.]

- ☐ Alcohol Use/Abuse Counseling
- ☐ Tobacco Use/Abuse Counseling

[Technical Note: Link to Tobacco Assessment and Cessation Counseling Documentation Template KNART.]

- ☐ Other Substance Use/Abuse Counseling

[Section Prompt: Psychosocial Counseling provided.]

- ☐ Sexual orientation and gender identity
- ☐ Screen for Depression

[Technical Note: Link to Consult for Depression Documentation Template KNART.]

- ☐ Screen for Suicide Symptoms

[Technical Note: Link to Mental Health Suicide Risk Assessment Documentation Template KNART.]

- ☐ Behavioral and Learning Disorders
- ☐ Relationships Including Family and Peers

- ☐ Abuse: Sexual, Physical, Emotional, and bullying by partner, family members, peers
- ☐ School experiences
- ☐ Sleep disorders

[Section Prompt: Prevention of Injuries Counseling provided.]

- ☐ Exercise and Sports Safety
- ☐ Weapons, Including Firearms
- ☐ Hearing Protection
- ☐ Occupational Hazards
- ☐ Recreational Hazards
- ☐ Safe Driving Practices Including: Texting While Driving, Driving Under the Influence, Seat Belt Use
- ☐ Use of Helmets
- ☐ Ultraviolet Ray Exposure
- ☐ Body modification: Scarring, Piercing, Tattooing

[Section Prompt: Good Health Practices Counseling provided.]

- ☐ Hygiene
- ☐ Dental Care
- ☐ Fluoride Supplementation

[Section Prompt: Cardiovascular Risk Factor Counseling.]

- ☐ Family history of cardiovascular disease

Personal history of

- ☐ Hypertension
- ☐ Obesity
- ☐ Dyslipidemia
- ☐ Diabetes mellitus
- ☐ Preeclampsia, gestational diabetes, or pregnancy-induced hypertension

[Section Prompt: Other Counseling provided.]

<obtain> Description

[End Counseling.]

2.3.4 Immunizations

[Begin Immunizations.]

[Technical Note: Launch link to Centers for Disease Control and Prevention (CDC) Guidelines.]

[Clinical Comment: The Recommended Immunizations patient cohort is adults, and this age group is not adequately addressed in the KNART.]

[End Immunizations.]

[End Age >=13 years old to <19 years old.]

2.4. Age >=19 years old to <40 years old

[Begin Age >=19 years old to <40 years old.]

[Section Selection Behavior: This section should be provided for patients who are >=19 years old to <40 years old.]

2.4.1. Screening

[Begin Screening.]

2.4.1.1. History

[Begin History.]

[Technical Note: Information that can be obtained from the electronic medical record system should prepopulate the template fields in a manner that is apparent to the clinical provider.]

[Section Prompt: Visit Reason/Chief Complaint.]

<obtain> Description

[Section Prompt: Menstrual History.]

[Section Prompt: Age of Menarche?]

<obtain> Age

[Section Prompt: Date of Last Menstrual Period (LMP)?]

<obtain> Date

[Section Prompt: Menstrual Cycle Pattern?]

☐ Regular

<obtain> Cycle duration (Days)

<obtain> Flow duration (Days)

☐ Irregular

<obtain> Details

[Section Prompt: Menstrual Symptoms.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Additional Menstrual History.]

<obtain> Details

[Section Prompt: Reproductive History.]

<obtain> Gravidity (Total Number of Pregnancies)

<obtain> Parity (Number of pregnancies reaching 20 weeks and 0 days of gestation or beyond)

<obtain> Other Relevant Reproductive History

[Technical Note: Link to the Reproductive Health KNART.]

[Section Prompt: Gender Identity.]

<obtain> Gender Identity

[Section Prompt: Sexual History.]

[Section Prompt: Sexually Active?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

☐ No

<obtain> Details

<obtain> Sexual Orientation

[Technical Note: If "No" to "Sexually Active," then do not display the next 2 questions.]

[Section Prompt: Sexual practices.]

[Section Selection Behavior: Select any. Optional.]

☐ Vaginal sex

☐ Anal sex

☐ Oral sex

☐ Other

[Section Prompt: Types of Sexual Partner(s).]

[Section Selection Behavior: Select any. Optional.]

☐ Men

☐ Women

☐ Both

☐ None

<obtain> Number of Sexual Partners

[Section Prompt: Prior sexually transmitted infections?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

<obtain> Details

☐ No

<obtain> Types of Contraceptives/Sexually Transmitted Infection Prevention Used

[Section Prompt: High-risk sexual behaviors?]

[Section Prompt: High-risk sexual behaviors are defined as having multiple or casual sex partners without the use of protective behaviors (e.g., condom use) as well as sex in exchange for money or drugs.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Urinary or fecal incontinence.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Medical History.]

<obtain> Medical History

[Section Prompt: Medication History, including use of complementary and alternative medication.]

<obtain> Current Medications—Prescription

<obtain> Current Medications—Nonprescription

[Section Prompt: Surgical History.]

[Technical Note: Enable entry of multiple surgeries for a patient.]

<obtain>Surgical Procedure

<obtain>Surgical Date

[Section Prompt: Family Health History.]

<obtain> Family Health History

[Technical Note: Link to Family Health History KNART as available.]

[Section Prompt: Nutrition History.]

<obtain> Nutrition

[Section Prompt: Physical Activity History.]

<obtain> Physical Activity

[Section Prompt: Social History.]

[Section Prompt: Substance Use History.]

[Section Selection Behavior: Select one or more. Optional]

☐ Current or former tobacco user

<obtain> Link to Tobacco Screening and Cessation Counseling KNART

[Technical Note: Link to Tobacco Assessment and Cessation Counseling Documentation Template KNART.]

☐ Alcohol Use

<obtain> Details

[Technical Note: Link to Substance use KNART (not currently available).]

☐ Rehabilitation or detoxification

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Cocaine Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Other substance use history

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

[Section Prompt: Housing-related issues.]

[Section Prompt: Select any or none. Optional.]

☐ Homeless

<obtain> Details

[Technical Note: Link to Homelessness Documentation Template KNART.]

☐ Unstable Home Environment

<obtain> Details

☐ Geographically Remote (40+ Mile Drive to Medical Care)

<obtain> Details

[Section Prompt: Neglect and Abuse History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Yes

☐ Sexual

<obtain> Details

☐ Physical

<obtain> Details

☐ Emotional

<obtain> Details

☐ No

[Section Prompt: Additional Social History.]

<obtain> Details

[End History.]

2.4.1.2. Physical Exam

[Begin Physical Exam.]

[Section Prompt: Physical Exam.]

<obtain> Height in Inches

<obtain> Weight in Pounds

<obtain> Body Mass Index (kg/m²)

[Technical Note: Body mass index (BMI) should be calculated and provided above in kilograms per square meter (kg/m²), using the formula BMI = 703 × weight (pounds)/height (inches)².]

<obtain> Systolic Blood Pressure

<obtain> Diastolic Blood Pressure

<obtain> Neck adenopathy and thyroid

<obtain> Breast Examination(as Indicated by History)

<obtain> Abdominal Examination

<obtain> Pelvic Examination (as Indicated by History)

<obtain> Other Physical Exams (as Indicated by History)

[End Physical Exam.]

[End Screening.]

2.4.2. Testing

[Begin Testing.]

☐ Cervical Cancer Screening

[Technical Note: Link to Cervical Cancer Screening KNART.]

[Section Prompt: Chlamydia and Gonorrhea Testing.]

[Section Prompt: Chlamydia and Gonorrhea testing is not indicated in patients who are low risk, who have never been sexually active; or other reason indicated by patient care provider.]

[Section Selection Behavior: Select one or both. Optional.]

☐ Chlamydia

☐ Gonorrhea

[Section Prompt: Testing Based on Risk.]

[Section Selection Behavior: Select one or more. Optional.]

- ☐ Human Immunodeficiency Virus (HIV)
- ☐ Hepatitis C Virus
- ☐ Tuberculosis (TB) Skin Test
- ☐ Diabetes Screening
 - ☐ Fasting Plasma Glucose (FPG)
 - ☐ 75-g Oral Glucose Tolerance Test (OGTT) with 2-Hour Plasma Glucose (2-h PG)
 - ☐ Hemoglobin A1c
- ☐ Hemoglobin level
- ☐ Lipid Panel
- ☐ Thyroid-Stimulating Hormone (TSH)
- ☐ Genetic Counseling/Testing

[Section Prompt: Consider Genetic Counseling/Testing in patients with fragile X syndrome, Tay–Sachs disease; or if there is a concern about cystic fibrosis carrier status or spinal muscular atrophy. Also, assess for risk of a hemoglobinopathy for women considering pregnancy.]

<obtain> Test(s)

- ☐ Breast Cancer Screening

[Technical Note: Link to Breast Cancer Screening KNART.]
- ☐ Colorectal Cancer Screening

[Technical Note: Link to Colorectal Cancer Screening KNART.]
- ☐ Bone Mineral Density Screening

[Technical Note: Link to Osteoporosis Screening KNART.]

[End Testing.]

2.4.3. Counseling

[Begin Counseling.]

[Section Prompt: Please identify the counseling provided during a well-woman visit.]

[Section Selection Behavior: Select one or more. Optional.]

[Section Prompt: Sexuality Counseling provided.]

- ☐ Preconception

[Technical Note: Link to Reproductive Health KNART.]
- ☐ Reproductive Health, including Preventing unwanted/unintended pregnancy and Contraceptive options

[Technical Note: Link to Reproductive Health KNART.]
- ☐ Safe Sexual Practices including barrier protection
- ☐ Sexual Function

☐ High-Risk Sexual Behaviors, Sexually Transmitted Infections (STIs) and Barrier Protection, Acquaintance Rape Prevention

[Section Prompt: Physical Activity/Nutrition Counseling provided.]

- ☐ Physical Activity
- ☐ Eating Disorders and Obesity
- ☐ Folic Acid Supplementation
- ☐ Review Calcium Intake

[Section Prompt: Substance Use/Abuse Counseling provided.]

- ☐ Alcohol Use/Abuse Counseling
- ☐ Tobacco Use/Abuse Counseling
- ☐ Other Substance Use/Abuse Counseling

[Section Prompt: Psychosocial Counseling provided.]

- ☐ Life Stressors
- ☐ Screen for Depression

[Technical Note: Link to Consult for Depression Documentation Template KNART.]

- ☐ Screen for Suicide Symptoms

[Technical Note: Link to Mental Health Suicide Risk Assessment Documentation Template KNART.]

- ☐ Work Satisfaction
- ☐ Relationships Including Family and Peers
- ☐ Neglect and Abuse: Sexual, Physical, Emotional, and Intimate Partner Violence
- ☐ Sleep Disorders

[Section Prompt: Prevention of Injuries Counseling provided.]

- ☐ Exercise and Sports Safety
- ☐ Weapons, Including Firearms
- ☐ Occupational Hazards
- ☐ Hearing protection
- ☐ Recreational Hazards
- ☐ Safe Driving Practices Including: Texting While Driving, Driving Under the Influence, Seat Belt Use
- ☐ Ultraviolet Ray Exposure

[Section Prompt: Good Health Practices/Risk assessment Counseling provided.]

- ☐ Chemoprophylaxis for Breast Cancer

[Section Prompt: Chemoprophylaxis for breast cancer may be indicated for high risk women 35 years or older.]

☐ Hygiene

☐ Dental Care

[Section Prompt: Cardiovascular Risk Factor Counseling.]

☐ Family history of cardiovascular disease

Personal history of

☐ Hypertension

☐ Obesity

☐ Dyslipidemia

☐ Diabetes mellitus

☐ Preeclampsia, gestational diabetes, or pregnancy-induced hypertension

[Section Prompt: Other Counseling provided.]

<obtain> Description

[End Counseling.]

2.4.4. Immunizations

[Begin Immunizations.]

[Technical Note: Launch link to Recommended Immunizations KNART.]

[End Immunizations.]

[End Age ≥ 19 years old to <40 years old.]

2.5. Age ≥ 40 years old to <65 years old

[Begin Age ≥ 40 years old to <65 years old.]

[Section Selection Behavior: This section should be provided for patients who are ≥ 40 years old to <65 years old.]

2.5.1. Screening

[Begin Screening.]

2.5.1.1. History

[Begin History.]

[Technical Note: Information that can be obtained from the electronic medical record system should prepopulate the template fields in a manner that is apparent to the clinical provider.]

[Section Prompt: Visit Reason/Chief Complaint.]

<obtain> Description

[Section Prompt: Menstrual History.]

[Section Prompt: Age of Menarche?]

<obtain> Age

[Section Prompt: Date of Last Menstrual Period (LMP)?]

<obtain> Date

[Section Prompt: Menstrual Cycle Pattern?]

[Section Selection Behavior: Select one. Required.]

☐ Regular

<obtain> Cycle duration (Days)

<obtain> Flow duration (Days)

☐ Irregular

<obtain> Details

[Section Prompt: Menstrual Symptoms.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Additional Menstrual History.]

<obtain> Details

[Section Prompt: Symptoms of menopause.]

[Section Selection Behaviors: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Reproductive History.]

<obtain> Gravidity (Total Number of Pregnancies)

<obtain> Parity (Number of pregnancies reaching 20 weeks and 0 days of gestation or beyond)

<obtain> Other Relevant Reproductive History

[Technical Note: Link to the Reproductive Health KNART.]

[Section Prompt: Gender Identity.]

<obtain> Gender Identity

[Section Prompt: Sexual History.]

[Section Prompt: Sexually Active?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

☐ No

<obtain> Details

<obtain> Sexual Orientation

[Technical Note: If "No" to "Sexually Active," then do not display the following 2 questions.]

[Section Prompt: Sexual practices.]

[Section Selection Behavior: Select any. Optional.]

☐ Vaginal sex

☐ Anal sex

☐ Oral sex

☐ Other

[Section Prompt: Types of Sexual Partner(s).]

[Section Selection Behavior: Select any. Optional.]

☐ Men

☐ Women

☐ Both

☐ None

<obtain> Number of Sexual Partners

[Section Prompt: Prior sexually transmitted infections?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

<obtain> Details

☐ No

<obtain> Types of Contraceptives/Sexually Transmitted Infection Prevention Used

[Section Prompt: High-risk sexual behaviors?]

[Section Prompt: High-risk sexual behaviors are defined as having multiple or casual sex partners without the use of protective behaviors (e.g., condom use) as well as sex in exchange for money or drugs.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Pelvic prolapse.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Urinary or fecal incontinence.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Medical History.]

<obtain> Medical History

[Section Prompt: Medication History, including use of complementary and alternative medicine.]

<obtain> Current Medications—Prescription

<obtain> Current Medications—Nonprescription

[Section Prompt: Surgical History.]

[Technical Note: Enable entry of multiple surgeries for a patient.]

<obtain> Surgical Procedure

<obtain> Surgical Date

[Section Prompt: Family Health History.]

<obtain> Family Health History

[Technical Note: Link to Family Health History KNART as available.]

[Section Prompt: Nutrition History.]

<obtain> Nutrition

[Section Prompt: Physical Activity History.]

<obtain> Physical Activity

[Section Prompt: Social History.]

[Section Prompt: Substance Use History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Current or former tobacco user

<obtain> Link to Tobacco Screening and Cessation Counseling KNART

[Technical Note: Link to Tobacco Assessment and Cessation Counseling Documentation template KNART.]

<obtain> Details

☐ Alcohol Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Rehabilitation or detoxification

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Cocaine Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Other substance use history

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

[Section Prompt: Housing-related issues.]

[Section Prompt: Select any or none. Optional.]

☐ Homeless

<obtain> Details

[Technical Note: Link to Homelessness Documentation Template KNART.]

☐ Unstable Home Environment

<obtain> Details

☐ Geographically Remote (40+ Mile Drive to Medical Care)

<obtain> Details

[Section Prompt: Neglect and Abuse History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Yes

☐ Sexual

<obtain> Details

☐ Physical

<obtain> Details

☐ Emotional

<obtain> Details

☐ No

[Section Prompt: Additional Social History.]

<obtain> Details

[End History.]

2.5.1.2. Physical Exam

[Begin Physical Exam.]

[Section Prompt: Physical Exam.]

<obtain> Height in Inches

<obtain> Weight in Pounds

<obtain> Body Mass Index (kg/m²)

[Technical Note: Body mass index (BMI) should be calculated and provided above in kilograms per square meter (kg/m²), using the formula $BMI = 703 \times \text{weight (pounds)} / \text{height (inches)}^2$.]

<obtain> Systolic Blood Pressure

<obtain> Diastolic Blood Pressure

<obtain> Neck adenopathy and thyroid

<obtain> Breast Examination

<obtain> Abdominal Examination

<obtain> Pelvic Examination (as Indicated by History)

<obtain> Other Physical Exams (as Indicated by History)

[End Physical Exam.]

2.5.2. Testing

[Begin Testing.]

☐ Cervical Cancer Screening

[Technical Note: Link to Cervical Cancer Screening KNART.]

☐ Colorectal Cancer Screening

[Section Prompt: Begin screening at age 50 years.]

[Technical Note: Link to Colorectal Cancer Screening KNART.]

☐ Breast Cancer Screening

[Technical Note: Link to Breast Cancer Screening KNART.]

☐ Diabetes Testing

[Section Prompt : Beginning at age 45 years, consider diabetic screening every three years. Diabetic screening is not indicated for those patients with average risk and less than 45 years of age; or patients with known diagnosis of diabetes mellitus; or who have been screened within the last 3 years; or other reason indicated by patient care provider.]

☐ Fasting Plasma Glucose (FPG)

☐ 75-g Oral Glucose Tolerance Test (OGTT) with 2-Hour Plasma Glucose (2-h PG)

☐ Hemoglobin A1c

☐ Lipid Panel

[Section Prompt : Beginning at age 45 years, consider performing lipid panel every five years. For those women less than 45 years of age, lipid panel is not indicated if average risk; or for those who have been screened within the last 5 years; or other reason indicated by patient care provider.]

☐ Hepatitis C Virus

[Section Prompt: One-time Hepatitis C virus testing indicated for persons born from 1945 through 1965 and unaware of their infection status.]

<obtain> Hepatitis C Virus results

[Section Prompt: Chlamydia and Gonorrhea Testing.]

[Section Prompt: Chlamydia and Gonorrhea testing is not indicated in patients who are low risk, who have never been sexually active, or other reason indicated by patient care provider.]

[Section Selection Behavior: Select one or both. Optional.]

☐ Chlamydia

☐ Gonorrhea

[Section Prompt: Testing Based on Risk.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Human Immunodeficiency Virus (HIV)

☐ Tuberculosis (TB) Skin Test

☐ Hemoglobin Level

☐ Thyroid-Stimulating Hormone (TSH)

☐ Genetic Counseling/Testing

[Section Prompt: Consider Genetic Counseling/Testing in patients with fragile X syndrome, Tay-Sachs disease, or if there is a concern about cystic fibrosis carrier status or spinal muscular atrophy. Also, assess for risk of a hemoglobinopathy for women considering pregnancy.]

<obtain> Test(s)

☐ Bone Mineral Density Screening

[Technical Note: Link to Osteoporosis Screening KNART.]

[End Testing.]

2.5.3 Counseling

[Begin Counseling.]

[Section Prompt: Please identify the counseling provided during this well woman visit.]

[Section Prompt: Advanced Directive Counseling provided.]

☐ Advanced Directive

[Section Prompt: Sexuality Counseling provided.]

☐ Preconception

[Technical Note: Link to Reproductive Health KNART.]

☐ Reproductive Health, including Preventing unwanted/unintended pregnancy and Contraceptive options

[Technical Note: Link to Reproductive Health KNART.]

☐ Safe Sexual Practices including barrier protection

☐ Sexual Function

☐ High-Risk Sexual Behaviors, Sexually Transmitted Infections (STIs) and Barrier Protection, Acquaintance Rape Prevention

[Section Prompt: Physical Activity/Nutrition Counseling provided.]

☐ Physical Activity

☐ Eating Disorders and Obesity

☐ Review Calcium Intake

[Section Prompt: Substance Use/Abuse Counseling provided.]

☐ Alcohol Use/Abuse Counseling

☐ Tobacco Use/Abuse Counseling

☐ Other Substance Use/Abuse Counseling

[Section Prompt: Psychosocial Counseling provided.]

☐ Life Stressors

☐ Screen for Depression

[Technical Note: Link to Consult for Depression Documentation Template KNART.]

☐ Screen for Suicide Symptoms

[Technical Note: Link to Mental Health Suicide Risk Assessment Documentation Template KNART.]

☐ Work Satisfaction

☐ Relationships Including Family and Peers

☐ Neglect and Abuse: Sexual, Physical, Emotional, and Intimate Partner Violence

☐ Sleep Disorders

[Section Prompt: Prevention of Injuries Counseling provided.]

☐ Exercise and Sports Safety

☐ Weapons, Including Firearms

☐ Occupational Hazards

☐ Hearing Protection

☐ Recreational Hazards

☐ Safe Driving Practices Including: Texting while Driving, Driving Under the Influence, Seat Belt Use

☐ Ultraviolet Ray Exposure

[Section Prompt: Good Health Practices/Risk Assessment Counseling provided.]

☐ Aspirin prophylaxis

[Section Prompt: For women age 50-59 years, consider if not at an increased risk for bleeding, have a life expectancy of at least 10 years, and are willing to take low-dose aspirin daily for at least 10 years. For women age 60-64 years, prophylaxis decision should be individualized based on no known increased risk for bleeding, and a life expectancy of at least 10 years.]

☐ Chemoprophylaxis for Breast Cancer

[Section Prompt: Chemoprophylaxis for breast cancer may be indicated for high risk women 35 years or older.]

☐ Hormone Therapy

☐ Hygiene

☐ Dental Care

[Section Prompt: Cardiovascular Risk Factor Counseling.]

☐ Family history of cardiovascular disease

Personal history of

☐ Hypertension

☐ Obesity

☐ Dyslipidemia

☐ Diabetes mellitus

☐ Preeclampsia, gestational diabetes, or pregnancy-induced hypertension

[Section Prompt: Other Counseling provided.]

<obtain> Description

[End Counseling.]

2.5.4 Immunizations

[Begin Immunizations.]

<obtain> Link to Recommended Immunizations KNART

[Technical Note: Link to Recommended Immunizations KNART.]

[End Immunizations.]

[End Age >=40 years old to <65 years old.]

2.6. Age =>65 years

[Begin Age =>65 years.]

[Section Selection Behavior: This section should be provided for patients who are aged 65 years and older.]

2.6.1. Screening

[Begin Screening.]

2.6.1.1. History

[Begin History.]

[Technical Note: Information that can be obtained from the system should prepopulate the template fields in a manner that is apparent to the clinical provider.]

[Section Prompt: Visit Reason/Chief Complaint.]

<obtain> Description

[Section Prompt: Post-menopausal bleeding.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Gender Identity.]

<obtain> Gender Identity

[Section Prompt: Sexual History.]

[Section Prompt: Sexually Active?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

☐ No

<obtain> Details

<obtain> Sexual Orientation

[Technical Note: If “No” to “Sexually Active,” then do not display the following 2 questions.]

[Section Prompt: Sexual practices?]

[Section Selection Behavior: Select any. Optional]

☐ Vaginal sex

☐ Anal sex

☐ Oral sex

☐ Other

[Section Prompt: Types of Sexual Partner(s).]

[Section Selection Behavior: Select any. Optional.]

☐ Men

☐ Women

☐ Both

☐ None

<obtain> Number of Sexual Partners

[Section Prompt: Prior sexually transmitted infections?]

[Section Selection Behavior: Select one. Required.]

☐ Yes

<obtain> Details

☐ No

<obtain> Types of Contraceptives/Sexually Transmitted Infection Prevention Used

[Section Prompt: High-risk sexual behaviors?]

[Section Prompt: High-risk sexual behaviors are defined as having multiple or casual sex partners without the use of protective behaviors (e.g., condom use) as well as sex in exchange for money or drugs.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Pelvic prolapse.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Urinary or fecal incontinence.]

[Section Selection Behavior: Select one. Optional.]

☐ Yes

<obtain> Details

☐ No

[Section Prompt: Medical History.]

<obtain> Medical History

[Section Prompt: Medication History, including use of complementary and alternative medicine.]

<obtain> Current Medications—Prescription

<obtain> Current Medications—Nonprescription

[Section Prompt: Surgical History.]

[Technical Note: Enable entry of multiple surgeries for a patient.]

<obtain> Surgical Procedure

<obtain> Surgical Date

[Section Prompt: Family Health History.]

<obtain> Family Health History

[Technical Note: Link to Family Health History KNART as available.]

[Section Prompt: Nutrition History.]

<obtain> Nutrition

[Section Prompt: Physical Activity History.]

<obtain> Physical Activity

[Section Prompt: Social History.]

[Section Prompt: Substance Use History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Current or former tobacco user

<obtain> Link to Tobacco Screening and Cessation Counseling KNART

[Technical Note: Link to Tobacco Assessment and Cessation Counseling Documentation template KNART.]

<obtain> Details

☐ Alcohol Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Rehabilitation or detoxification

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Cocaine Use

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

☐ Other substance use history

<obtain> Details

[Technical Note: Link to Substance Use KNART (not currently available).]

[Section Prompt: Housing-related issues.]

[Section Prompt: Select any or none. Optional.]

☐ Homeless

<obtain> Details

[Technical Note: Link to Homelessness Documentation Template KNART.]

☐ Unstable Home Environment

<obtain> Details

☐ Geographically Remote (40+ Mile Drive to Medical Care)

<obtain> Details

[Section Prompt: Neglect and Abuse History.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Yes

☐ Sexual

<obtain> Details

☐ Physical

<obtain> Details

☐ Emotional

<obtain> Details

☐ No

[Section Prompt: Additional Social History.]

<obtain> Details

[End History.]

2.6.1.2. Physical Exam

[Begin Physical Exam.]

[Section Prompt: Physical Exam.]

<obtain> Height in Inches

<obtain> Weight in Pounds

<obtain> Body Mass Index (kg/m²)

[Technical Note: Body mass index (BMI) should be calculated and provided above in kilograms per square meter (kg/m²), using the formula BMI = 703 × weight (pounds)/height (inches)².]

<obtain> Systolic Blood Pressure

<obtain> Diastolic Blood Pressure

<obtain> Neck adenopathy and thyroid

<obtain> Breast Examination

<obtain> Abdominal Examination

<obtain> Pelvic Examination (as Indicated by History)

<obtain> Other Physical Exams (as Indicated by History)

[End Physical Exam.]

[End Screening.]

2.6.2 Testing

[Begin Testing.]

☐ Cervical Cancer Screening

[Technical Note: Link to Cervical Cancer Screening KNART.]

☐ Breast Cancer Screening

[Technical Note: Link to Breast Cancer Screening KNART.]

☐ Colorectal Cancer Screening

[Technical Note: Link to Colorectal Cancer Screening KNART.]

☐ Bone Mineral Density Screening

[Technical Note: Link to Osteoporosis Screening KNART.]

☐ Diabetes Testing

[Section Prompt : Recommended every three years.]

☐ Fasting Plasma Glucose (FPG)

☐ 75-g Oral Glucose Tolerance Test (OGTT) with 2-Hour Plasma Glucose (2-h PG)

☐ Hemoglobin A1c

☐ Urinalysis

☐ Lipid Panel

[Section Prompt: Lipid panel is indicated every 5 years.]

☐ Hepatitis C Virus

[Section Prompt: One-time Hepatitis C virus testing indicated for persons born from 1945 through 1965 and unaware of their infection status.]

<obtain> Hepatitis C Virus results

[Section Prompt: Testing Based on Risk.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Chlamydia

☐ Gonorrhea

☐ Human Immunodeficiency Virus (HIV)

☐ Tuberculosis (TB) Skin Test

☐ Hemoglobin Level

☐ Thyroid-Stimulating Hormone (TSH)

[End Testing.]

2.6.3 Counseling

[Begin Counseling.]

[Section Prompt: Please identify the counseling provided during a well woman visit.]

[Section Selection Behavior: Select one or more. Optional.]

☐ Advanced Directive

[Section Prompt: Sexuality Counseling provided.]

☐ Safe Sexual Practices Including Barrier Protection

☐ Sexual Function

☐ High-Risk Sexual Behaviors, Sexually Transmitted Infections (STIs) and Barrier Protection, Acquaintance Rape Prevention

[Section Prompt: Physical Activity/Nutrition Counseling provided.]

☐ Physical Activity

☐ Eating Disorders and Obesity

☐ Review Calcium Intake

[Section Prompt: Substance Use/Abuse Counseling provided.]

☐ Alcohol Use/Abuse Counseling

☐ Tobacco Use/Abuse Counseling

☐ Other Substance Use/Abuse Counseling

[Section Prompt: Psychosocial Counseling provided.]

☐ Life Stressors

☐ Screen for Depression

[Technical Note: Link to Consult for Depression Documentation Template KNART.]

☐ Screen for Suicide Symptoms

[Technical Note: Link to Mental Health Suicide Risk Assessment Documentation Template KNART.]

☐ Relationships Including Family and Peers

☐ Neglect and Abuse: Sexual, Physical, Emotional, and Intimate Partner Violence

☐ Sleep Disorders

[Section Prompt: Prevention of Injuries Counseling provided.]

☐ Exercise and Sports Safety

☐ Weapons, Including Firearms

☐ Occupational Hazards

☐ Recreational Hazards

☐ Fall Prevention

☐ Safe Driving Practices Including: Texting While Driving, Driving Under the Influence, Seat Belt Use

☐ Ultraviolet Ray Exposure

[Section Prompt: Good Health Practices/Risk Assessment Counseling provided.]

☐ Aspirin prophylaxis

[Section Prompt: For women age 65-69 years, prophylaxis decision should be individualized based on no known increased risk for bleeding, and a life expectancy of at least 10 years.]

☐ Chemoprophylaxis for Breast Cancer

[Section Prompt: Chemoprophylaxis for breast cancer may be indicated for high risk women.]

☐ Hormone Therapy

☐ Hearing

☐ Hygiene

☐ Dental Care

☐ Visual Acuity/Glaucoma screening

[Section Prompt: Cardiovascular Risk Factor counseling.]

☐ Family history of cardiovascular disease

Personal history of

☐ Hypertension

☐ Obesity

☐ Dyslipidemia

☐ Diabetes mellitus

☐ Preeclampsia, gestational diabetes, or pregnancy-induced hypertension

☐ Sedentary lifestyle

[Section Prompt: Other Counseling provided.]

<obtain> Description

[End Counseling.]

2.6.4. Immunizations

[Begin Immunizations.]

[Technical Note: Link to Recommended Immunizations KNART.]

[End Immunizations.]

[End Age =>65 years.]

[End Women's Health: Well-Woman Visit Documentation Template.]

Bibliography/Evidence

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[Oeffinger, 2015] KC Oeffinger, ETH Fontham, and R, et al. Etzioni. “Breast Cancer Screening for Women at Average Risk: 2015 Guideline Update From the American Cancer Society”. *JAMA*. 2015 . 315. (15). 1599-1614.

Appendix A. Reference Tables

[Clinical comment: The following tables were developed based on content on the ACOG website: <https://www.acog.org/About-ACOG/ACOG-Departments/Annual-Womens-Health-Care/Well-Woman-Recommendations> and are intended to be used to verify the content with the Clinical Content White Paper.]

Table A.1. Reference Table for Screening Activities Related to Patient History

Section of Well-Woman visit Documentation Template	KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
Visit Reason/Chief Complain		X	X	X	X
Menstrual History		X	X	X	
Reproductive Health, including: -reproductive hx, -link to Reproductive Health KNART	Yes	X	X	X	
Preconception counseling – link to Reproductive Health KNART	Yes		X	X	
Sexual History including: - Sexually active; - Sexual Practices (1); - Prior STIs; - High risk behavior		X	X	X	X
Medical History		X	X	X	X
Medication History (includes non-prescription meds)		X	X	X	X
Surgical History		X	X	X	X
Family History	Yes	X	X	X	X
Nutrition		X	X	X	X

Section of Well-Woman visit Documentation Template	KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
Physical Activity		X	X	X	X
Social History including: - Substance Abuse (include tobacco, alcohol, opioids and other drugs), - Neglect and Abuse (sexual, physical, and emotional), - Housing/rural		X	X	X	X
Symptoms of Menopause				X	
Postmenopausal bleeding					X
Pelvic prolapse				X	X
Urinary and fecal incontinence			X	X	X

1. Sexual practices include vaginal, anal, and oral sex; sexual orientation; number of partners; and exchange sex for drugs or money.

Table A.2. Reference Table for Screening Activities Related to Physical Exam

Section of Well-Woman Visit Documentation Template	KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
Height, Weight, Body Mass Index (BMI)		X	X	X	X
Blood pressure		X	X	X	X
Tanner Stage		X			
Neck adenopathy and thyroid			X	X	X
Breast exam as indicated by history			X	X	X
Abdominal examination		X	X	X	X
Pelvic examination (as indicated by		X	X	X	X

Section of Well-Woman Visit Documentation Template	KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
history)					
Other physical exams (as indicated by history)		X	X	X	X

Table A.3. Reference Table for Laboratory and Other Testing: Periodic and Risk-Based

Section of Well-Woman Visit Documentation Template	KNART exists for Reference ?	Age 13-18 Years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
Cervical Cancer Screening	Yes		Every three years cytology alone 21-29; age 30 and older every 5 years with Human Papillomavirus (HPV) co-testing preferred, every 3 years if cytology alone	Every five years cytology with HPV co-testing preferred; every 3 years if cytology alone	Stop screening if the woman has adequate negative prior screening results[1] and no history of CIN2 or higher
Gonorrhea and Chlamydia		If sexually active	If sexually active	Based on personal risk factors	Based on personal risk factors
Breast Cancer Screening	Yes		Based on personal risk factors	40-44 offer annual screening; 45-54 annual; 55-60 biennial	61-74 biennial; 75 and older life offer biennial if life expectancy is 10 or more years
HIV testing [2]		If sexually active	Per CDC and state guidelines https://www.cdc.gov/mmwr/preview/mmwrhtml/rr5514a1.htm Put in high risk testing section	Per CDC and state guidelines https://www.cdc.gov/mmwr/preview/mmwrhtml/rr5514a1.htm Put in high risk testing section	Based on personal risk factors
Bone Mineral Density Screening	Yes		Based on personal risk factors	Based on personal risk factors	X
Colorectal cancer screening	Yes	If family history of familial adenomatous polyposis or 8 years after the start of pancolitis	Based on personal risk factors	Beginning age 50	X
Diabetes		Based on	Based on personal risk	Begin at age 45 years	Every 3 years

Section of Well-Woman Visit Documentation Template	KNART exists for Reference ?	Age 13-18 Years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
screening		personal risk factors	factors	(If tests are normal, repeat testing carried out at a minimum of 3-year intervals is reasonable)	
Genetic testing/counseling		Based on personal risk factors	Cystic fibrosis carrier status, spinal muscular atrophy, and assess for risk of a hemoglobinopathy for women considering pregnancy; or patients with fragile X syndrome, Tay-Sachs disease	Cystic fibrosis carrier status, spinal muscular atrophy, and assess for risk of a hemoglobinopathy for women considering pregnancy; or patients with fragile X syndrome, Tay-Sachs disease	
Hemoglobin level assessment		Based on personal risk factors	Based on personal risk factors	Based on personal risk factors	Based on personal risk factors
Hepatitis B virus screening		Based on personal risk factors			
Hepatitis C virus screening		Based on personal risk factors	Based on personal risk factors	Hepatitis C virus testing – one-time testing for persons born from 1945 through 1965 who haven't been tested	Hepatitis C virus testing – one-time testing for persons born from 1945 through 1965 who haven't been tested
Lipid panel		Based on personal risk factor	Based on personal risk factors	Begin at age 45, every 5 years	Every 5 years
TSH			Based on personal risk factors	Based on personal risk factors	Based on personal risk factors
Tuberculosis (TB) skin testing		Based on personal risk factors	Based on personal risk factors	Based on personal risk factors	Based on personal risk factors
Urinalysis					X

1. Adequate negative prior screening results are defined as 3 consecutive negative cytology results or 2 consecutive negative co-test results within the previous 10 years, with the most recent test performed within the past 5 years.

2. Per CDC and state guidelines.

<https://www.cdc.gov/mmwr/preview/mmwrhtml/rr5514a1.htm>

Note state regulations vary and should be incorporated into a template by the organization implementing the template.

Table A.4. Reference Table for Counseling and Education

Section of Well-Woman Visit Documentation Template		KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
Sexuality						
	Preconception			X		
	Development		X			
	Safe Sexual practices including barrier protection		X	X	X	X
	Sexual function			X	X	X
	High risk sexual behaviors, STIs and barrier protection, acquaintance rape prevention.		X	X	X	X
	Reproductive Health	Yes	X	X		
	Postponing sexual involvement		X			
	Internet/phone safety		X			
Fitness and Nutrition						
	Physical Activity		X	X	X	X
	Eating Disorders and Obesity		X	X	X	X
	Multivitamin with folic acid		X			
	Folic acid supplementation		X	X		
	Review Calcium intake		X	X	X	X
Substance Use/Abuse						
	Tobacco	Yes	X	X	X	X
	Alcohol		X	X	X	X
	Opioids and other drugs		X	X	X	X
Psychosocial Evaluation						
	Sexual orientation and gender identity		X			
	Life Stressors			X	X	X
	Behavioral and learning disorders		X			
	Work satisfaction			X	X	
	Relationships including family and peers		X	X	X	X
	Abuse: sexual,		X			

Section of Well-Woman Visit Documentation Template		KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
	physical, emotional, and bullying by partner, family members, peers					
	Neglect and abuse: sexual, physical, intimate partner violence			X	X	X
	School experiences		X			
	Sleep disorders		X	X	X	X
	Screen for depression, suicide symptoms	Yes (depre) Yes (suicide)	X	X	X	X
	Advance Directive				X	X
Cardiovascular Risk Factors						
	Family History of CV disease		X	X	X	X
	Hypertension, dyslipidemia, obesity, diabetes mellitus		X	X	X	X
	Personal history of preeclampsia, gestational diabetes, or pregnancy induced hypertension		X	X	X	X
	Sedentary lifestyle					X
Good Health Practices/Risk Assessment						
	Aspirin prophylaxis [1]				In women age 50-59 who are not at an increased risk for bleeding, have a life expectancy of at least 10 years, and are willing to take low-dose aspirin daily for at least 10 years. 60-64 individualized based on no known increased risk for bleeding, and a life expectancy of at least 10 years.	65 – 69 individualized based on no known increased risk for bleeding, and a life expectancy of at least 10 years
	Chemoprophylaxis for breast cancer			35 and old for high risk women	For high risk women	For high risk women
	Hormone therapy				X	X
	Hearing					X

Section of Well-Woman Visit Documentation Template		KNART exists for Reference?	Age 13-18 years	Age 19-39 years	Age 40-64 years	Age 65 years and Older
	Hygiene		X	X	X	X
	Dental Care		X	X	X	X
	Fluoride supplementation		X			
	Visual Acuity/Glaucoma screening					X
Prevention of injuries						
	Exercise and sports safety		X	X	X	X
	Weapons, including firearms		X	X	X	X
	Occupational hazards		X	X	X	X
	Hearing Protection		X	X	X	X
	Fall Prevention					X
	Recreational hazards		X	X	X	X
	Safe driving practices including texting while driving, driving under the influence, seat belt use		X	X	X	X
	Use of helmets		X			
	Ultraviolet ray exposure		X	X	X	X
	Substance use/abuse: tobacco, alcohol, opioids and other drugs	Yes for tobacco	X	X	X	X
	Body modification: scarring, piercing, tattooing		X			
Immunizations						
			X	X	X	X

1. Aspirin prophylaxis for the primary prevention of cardiovascular disease (CVD) and colorectal cancer (CRC) in those who have a 10% or greater 10-year CVD risk.

Appendix B. Acronyms

Acronym	Definition
ACOG	The American College of Obstetricians and Gynecologists
BMI	Body Mass Index
CCWP	Clinical Content White Paper
CDC	Centers for Disease Control and Prevention
CDS	Clinical Decision Support
CRC	Colorectal Cancer
CVD	Cardiovascular Disease
ECA	Event Condition Action
FPG	Fasting Plasma Glucose
HIV	Human Immunodeficiency Virus
HL7	Health Level 7
HPV	Human Papillomavirus
KBS	Knowledge Based Systems
KG	Kilogram
KNART	Knowledge Artifact
LMP	Last Menstrual Period
OGTT	Oral Glucose Tolerance Test
OIG	Office of Informatics and Information Governance
PG	Plasma Glucose
SME	Subject Matter Expert
STI	Sexually Transmitted Infection
TB	Tuberculosis
TO	Task Order
TSH	Thyroid Stimulating Hormone
VA	Department of Veterans Affairs