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CARE Query

EHR Instructions to Create a List of Patients Who May Benefit From Reproductive Health Education

For the Cerner® EHR System

EHR=electronic health record.



Inspired by patients.
Driven by science.

Table of Contents

3 About This Guide

4 Women Are Key Healthcare Decision Makers

5 Using the EHR

6 Using the Patient List to Identify Patients

7 Instructions



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About This Guide

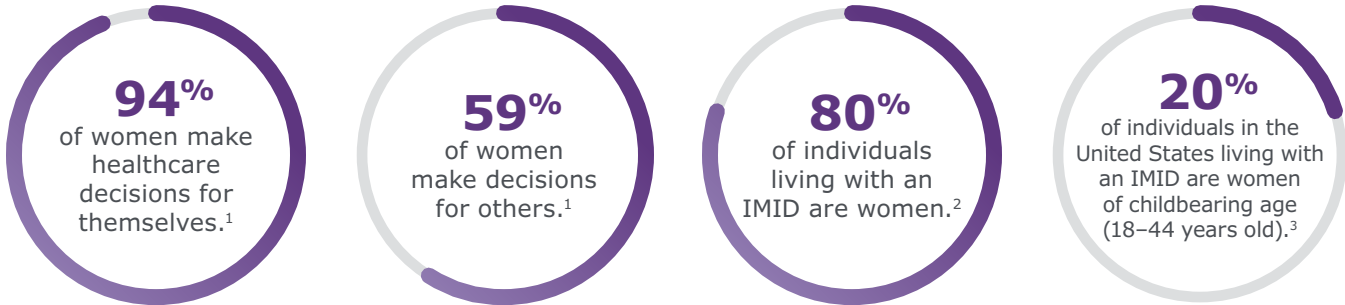
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Women Are Key Healthcare Decision Makers

Women represent the majority of patients with an immune-mediated inflammatory disease (IMID)



The impact of IMIDs on the price of healthcare can be staggering
Estimated annual U.S. healthcare cost^{4,5}



The human toll of IMIDs can be overwhelming

Three icons representing different types of burdens: a head with a battery for physical burden, a head with a cloud for psychosocial burden, and a head with a downward arrow for poor quality of life.

- Physical burden⁶⁻⁹**
 - Severe fatigue and pain
 - Erosive disease
 - Chronic opioid use
- Psychosocial burden¹⁰⁻¹²**
 - Suicidal ideation
 - Sexual dysfunction
 - Discrimination and humiliation
- Poor quality of life¹³**
 - Work impairment
 - Assistance required for daily activities/chores

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Timely discussions about family planning are necessary



Women struggle to express their feelings, doubts, and concerns about pregnancy and lactation.¹⁵⁻¹⁷

Specialists may want to address concerns related to treatment and family planning.^{18,19}



There is an opportunity for healthcare providers to partner with their patients to better understand their fears and worries.

Using the EHR

- The customers (i.e., physician, medical group, integrated delivery network) shall be solely responsible for implementation, testing, and monitoring of the instructions to ensure proper orientation in each customer's EHR system.
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Using the Patient List to Identify Patients

The following are potential inclusion and exclusion criteria:
(Note that this list of criteria is variable, and the end user may choose which criteria to include and exclude in the patient list based on their clinical judgment.)

Inclusion Criteria:

Age	18–45 years
Gender	Female (as assigned at birth)
Disease and ICD Code:^{20,21}	
Rheumatoid Arthritis	M05.xx and M06.xx
SLE (systemic lupus erythematosus)	M32.xx
AS (ankylosing spondylitis)	M45.xx
nr-axSpA (nonradiographic axial spondyloarthritis)	M45.A
PsA (psoriatic arthritis)	L40.5x
Plaque PSO (plaque psoriasis)	L40.0x and L40.9x
Crohn’s Disease	K50.xx
Reproductive Health Codes Suggesting Potential Need for Discussion:²⁰	
Natural Family Planning	Z30.02
Removal of Intrauterine Device	Z30.432
Procreative Management	Z31.xx
Location	Fertility Clinic

Exclusion Criteria:

Surgical Procedure or Medical Birth Control:^{20,22}	
Tubal Ligation	Z98.51 and Z30.2
Contraception Initial	Z30.01x
Contraceptive Surveillance	Z30.4x (except Z30.432)
Contraceptive Management	Z30.8 and Z30.9
Diaphragm or Cervical Cap Fitting With Instructions	CPT 57170
Contraceptive Medications:²⁰	
Long-term Use of Antibiotics	Z79.2

CPT=Current Procedural Terminology; ICD=International Classification of Diseases.

Instructions

Cerner's Discern Analytics is a reporting tool capable of creating patient queries. Consult your organization if additional user rights are required to access this functionality.

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1. Launch Discern Analytics 2.0. It may be found as DA2.exe in the Cerner applications folder.
2. Click the Domains tab to access available domains.
3. Select File > New > Query or select the desired domain by double-clicking it.
4. The Query Wizard will display available categories.
5. In the Qualifications window, select the Person > Demographics > Age Filter and click Modify Filter List.
6. Set the Age range to 18–45 years. Click Include.
7. In the Qualifications window, select the Person > Demographics > Gender and click Modify Filter List.
8. Select "Female". Click Include.
9. In the Qualifications window, select the "Diagnosis Code Filter" and click Modify Filter List.
10. Enter all other ICD-10 codes listed in the inclusion criteria table in the search box and select all ICD-10 codes. Click Include.
11. In the Qualifications window, select the "Diagnosis Code Filter" and click Modify Filter List.
12. Enter all other ICD-10 codes listed in the exclusion criteria table in the search box and select all ICD-10 codes. Click Exclude.
13. In the Qualifications window, select the "Procedures Filter" and click Modify Filter List.
14. Enter the procedure CPT code 57170 listed in the exclusion criteria table in the search box and select the code. Click Include.
15. In the Qualifications window, select the Orders > Orders Synonym ID Filter and click Modify Filter List.
16. Select the contraceptive medication therapeutic class. Click Exclude.
17. In the Qualifications window, select the "Encounter Filter" and click Modify Filter List.
18. For the department, select the desired department(s). Click Include.
19. Set the logic to reflect the inclusion and exclusion criteria table.
20. Select all the desired columns to include in the report by clicking the right arrow or dragging the selected folders to the Columns window.
21. Consider a column that uses the Date and Date/Time qualifications to set the look-back period.
22. Set the general criteria for the report and enter a unique name (e.g., "Reproductive Health Patient List").
23. Click Query > Query review or Run Query in Viewer in the Query tab to run the query.
24. The results will display. The results may be further manipulated if desired or exported to Excel.
25. Save the query.

Note: Optional – Reproductive health procedures can be included or excluded in the patient query. In the Qualifications window, select the Encounters > Procedure Codes Filter and click Modify Filter List. Enter and select all desired CPT codes. Click Include or Exclude as desired.

Patient Outreach

Once a list of patients has been created, patients may be contacted with reproductive health education:

- The patient’s communication preference is captured in the Patient Profile section. Patients may receive communications based on their preferred method of communication: mail, phone, portal, and decline.

Once the patient list query has been created, you may follow the steps below:

- You can select patients to communicate with by clicking on the **Generate Communications** button. Patients will be sorted based on their preferred method of communication. There are 4 communication options (tabs) available: Mail, Phone, Patient Portal, and Do Not Contact. Within each tab, the number of patients is listed. Do Not Contact patients will not receive any outbound message.
- Complete the Subject, Note Type, and Name in the Send on Behalf of field of each of the outreach modes.
- Enter the message in the open window and click the **Generate** button.
- Once all communications have been generated, click on the View Summary button to see progress of the outreach activity.

Age	Sex	PCP	Diagnosis	Last Visit Date	Pt. Portal Status
24	Female		M05.XX	9/2/2021	Activated
37	Female		M05.XX	5/24/2022	Activated
29	Female		M05.XX	11/6/2021	Activated
43	Female		M05.XX	2/3/2022	Activated
31	Female		M05.XX	8/16/2021	Activated

Hypothetical example of a Patient Follow-up setup page

PAS-II=Patient Activity Score-II; PCP=primary care provider; RAPID-3=Routine Assessment of Patient Index Data 3.

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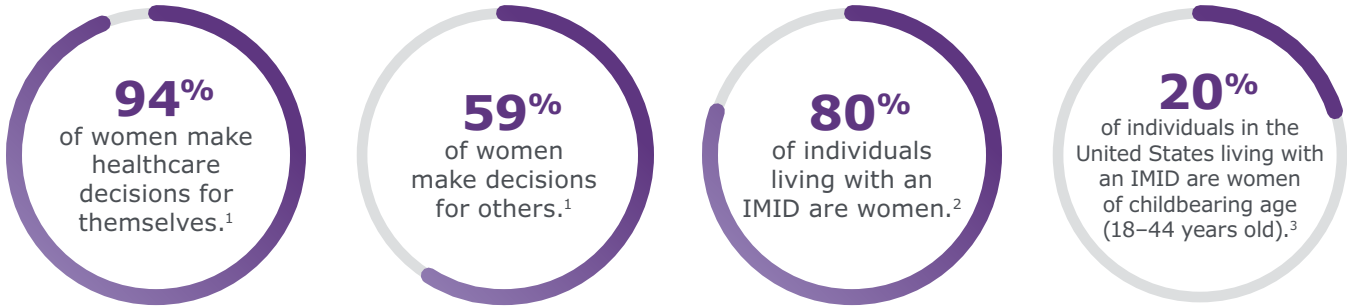
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CPT=Current Procedural Terminology; ICD=International Classification of Diseases.

Instructions

One of Epic's reporting solutions, Reporting Workbench or SlicerDicer, may be used to create the patient list. Consult your organization if administrative user rights are required to access the reporting solutions.

Health systems may use groupers for reporting purposes. For this report, a diagnosis and medications grouper may be considered. If no such groupers are available, consider creating the grouper records. The grouper records may be used in both reporting solutions.

In lieu of creating and using grouper records, the *Diagnosis by Code* and *Meds: Current, by therapeutic class* criteria may be used as an alternative.

STEP 1 Create Grouper Records – Optional

(Only needs to be completed if no diagnosis grouper and medication records are available.)

To create a Diagnosis Grouper record for each of the diagnosis groups in the inclusion and exclusion criteria list:

1. Access the Grouper Record Editor in Tools > Management Console.
2. Select the Diagnosis master file and select the ICD-10 code set.
3. Add all ICD codes from the inclusion criteria list to the diagnosis grouper and click Save.

To create a Medication Grouper record for each of the contraceptive medications in the exclusion criteria list:

1. Access the Grouper Record Editor in Tools > Management Console.
2. Select the Medications master file.
3. Add all desired contraceptives to the medication grouper and click Save.

STEP 2 Create the Patient List

Option 1 – Reporting Workbench:

1. Access Reporting Workbench (click the Epic logo > Reports > My Reports).
2. Navigate to the Library tab from the Reports menu.
3. Enter “generic criteria” or “find patients” in the search field and click Search.
4. Select the Find My Patients – Generic Criteria report and click New.
5. The Report Settings field will display. Click the Criteria tab in the toolbar.
6. Enter “age” in the search field (Filter Criteria).
7. Set the age range to 18–45 years.
8. Enter “sex” in the search field (Filter Criteria).
9. Select Female.
10. Diagnosis criterion:
 - a. Using the Diagnosis Grouper criterion:
 - i. Enter “diagnosis” in the search field (Filter Criteria).
 - ii. Select “Diagnosis by Grouper” in the search field.
 - iii. Enter the diagnosis grouper created in Step 1 and set the logic criteria to separate inclusion and exclusion diagnosis groupers.
 - b. Using the Diagnosis by Code criterion:
 - i. Enter “diagnosis” in the search field (Filter Criteria).
 - ii. Select “Diagnosis by Code” in the search field.
 - iii. Enter the diagnosis codes from the inclusion and exclusion table and set the logic criteria to separate inclusion and exclusion codes.
11. Medication criterion:
 - a. Using the Medications Grouper criterion:
 - i. Enter “meds” in the search field (Filter Criteria).
 - ii. Select “Meds: Current, by grouper” in the search field.
 - iii. Enter the medications Grouper created in Step 1.
 - b. Using the Meds: Current, by therapeutic class criterion:
 - i. Enter “meds” in the search field (Filter Criteria).
 - ii. Select “Meds: Current, by therapeutic class” in the search field.
 - iii. Enter the contraceptive therapeutic class and set the logic criteria to exclude the contraceptives from the patient query.
12. Enter “procedures” in the search field (Filter Criteria).
13. Enter the procedure CPT code 57170 from the exclusion list and exclude the result from the query.
14. Enter “encounters” in the search field (Filter Criteria).
15. Set the encounter department to include all desired departments. For example, select the fertility clinic as coded in your health system.
16. Set the logic to reflect the inclusion and exclusion criteria table.
17. In the General tab, enter the desired Report Name (e.g., “*Reproductive Health Patient List*”) and a Description.
18. Click Save and Run to create the patient list. The list will display all patients matching the criteria.

Note: Optional – Reproductive health procedures can be included or excluded in the patient query. Select the Procedures criterion and select all desired CPT codes. Click Include or Exclude as desired.

STEP 2 Create the Patient List (cont'd)

Option 2 – SlicerDicer:

1. Access SlicerDicer (click the Epic logo > Reports > SlicerDicer).
2. Click New to start a new query.
3. Select the patient's data model.
4. Click the drop-down arrow next to All Patients and select the desired patient base.
5. In the Search for criteria field, enter "Age" and select the Age criterion from the list.
6. Set the age range to 18–45 years and click Accept.
7. In the Search for criteria field, enter "Sex" and select the Sex criterion from the list.
8. Select Female and click Accept.
9. In the Search for criteria field, enter "Diagnosis" and select the Diagnosis criterion from the list.
10. Set the Mode to ICD/Grouped and select the inclusion Diagnosis Grouped created in Step 1 or select all individual diagnosis codes from the inclusion table. When selecting individual diagnosis codes or names, set the logic to OR between each of the diagnosis codes/names. Click Accept.
11. In the Search for criteria field, enter "Diagnosis" and select the Diagnosis criterion from the list.
12. Set the Mode to ICD/Grouped and select the exclusion Diagnosis Grouped created in Step 1 or select all individual diagnosis codes from the exclusion table. When selecting individual diagnosis codes or names, set the logic to OR between each of the diagnosis codes/names. Click Accept.
13. In the Search for criteria field, enter "Medications" and select the Current Medications criterion from the list.
14. Select the contraceptive therapeutic class or contraceptive medication grouped and click Accept.
15. In the Search for criteria field, enter "Procedures" and select the Procedures criterion from the list.
16. Enter the CPT code 57170 from the exclusion list and exclude the result from the query.
17. In the Search for criteria field, enter "Encounters" and select the Encounters criterion from the list.
18. Set the encounter department to include all desired departments. For example, select the fertility clinic as coded in your health system.
19. Click Save As to save the query (e.g., "Reproductive Health Patient List") and refine the query results.
20. Export the new report to Reporting Workbench.
21. In the General tab, enter the desired Report Name and a Description.
22. Click Save and Run to create the patient list. The list will display all patients matching the criteria.

Note: Optional – Reproductive health procedures can be included or excluded in the patient query. Select the Procedures criterion and select all desired CPT codes. Set the OR logic between each of the CPT codes. Click Accept once complete.

STEP 3 Patient Outreach

Once a list of patients has been created, patients may be contacted with reproductive health education:

- The patient's communication preference is captured in the Patient Profile section. Patients may receive communications based on their preferred method of communication: mail, phone, portal, and decline.

Once the patient list query has been created, you may follow the steps below:

- You can select patients to communicate with by clicking on the **Communications** button. Patients will be sorted based on their preferred method of communication. There are 4 communication options (tabs) available: Mail, Phone, MyChart, and Do Not Contact. Within each tab, the number of patients is listed. Do Not Contact patients will not receive any outbound message.
- Complete the Mail, Phone, MyChart, and Do Not Contact tabs with a unique name based on the health system's preferences and naming conventions.
- Enter the message in the open window and click the **Generate** button. Hyperlinks inviting the patient to complete a survey can be included.

Detail

Summary

Results loaded: 55 of 55
Results shown: 5 of 5

Select All
Show All

Last PAS-II
▲

Last RAPID-3

✓ Disease Severity

Phone

Last Appt With Me
▼

Contains:

(Blanks)

(Non-blanks)

Activated

Not Used

Age	Sex	PCP	Diagnosis	Last Visit Date	Pt. Portal	Status
24	Female		M05.XX	9/2/2021	Activated	
37	Female		M05.XX	5/24/2022	Activated	
29	Female		M05.XX	11/6/2021	Activated	
43	Female		M05.XX	2/3/2022	Activated	
31	Female		M05.XX	8/16/2021	Activated	

Hypothetical example of a Patient Follow-up setup page

PAS-II=Patient Activity Score-II; PCP=primary care provider; RAPID-3=Routine Assessment of Patient Index Data 3.

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