

# DynaMed

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An evidence-based clinical reference tool

# What can DynaMed do?

DynaMed is a clinical point of care tool that can be used to:

1. Summarize best practice recommendations for a disease or condition
2. Provide differential diagnoses for symptoms
3. Get background information on a disease or condition
4. Obtain information on drugs and drug interactions
5. Find evidence-based information about diagnostic tests
6. Provide information to share with patients

# Useful DynaMed Aspects

- **DynaMed Decisions** tool to assist with clinical decision making
- A collection of 37 specialties that can be browsed and/or followed
- Medical calculators spanning medical equations, clinical criteria, decision trees, statistics, unit & dose conversions, and a calculator search by specialty
- Drug information via IBM Micromedex on dosage, therapeutic use, cautions, and more
- Create an account to get personalized alerts on topics and updates that you follow, see your recently viewed content, and earn CME/CE credit

# How does DynaMed compare to UpToDate?

	<b>DynaMed</b>	<b>UpToDate</b>
<b>Update frequency and capability</b>	Daily practice-changing updates that can be sent to you automatically  New content added daily	Daily practice-changing updates  New content added daily
<b>Content</b>	37 specialties	25 specialties
<b>Drug Information</b>	IBM Micromedex drug database	LexiComp Drug database and interaction checker
<b>Evidence-based medicine</b>	Uses <b>GRADE</b> system for certainty of evidence and strength of recommendations  Level of Evidence rating system to determining quality of best available evidence  <a href="https://dynamed.ebscohost.com/content/loe">https://dynamed.ebscohost.com/content/loe</a>	Uses <b>GRADE</b> system for certainty of evidence and strength of recommendations  <a href="http://www.uptodate.com/home/grading-guide">http://www.uptodate.com/home/grading-guide</a>
<b>Journals monitored</b>	500+, as well as Cochrane Database	450+
<b>Access</b>	Available on campus and remotely  <a href="#">Mobile app</a>	Available on campus only  <a href="#">Mobile app</a>

# Accessing DynaMed through Parlow's Website

You can access DynaMed from our website by clicking the link on our home page, or by navigating to DynaMed within the Databases dropdown menu.



Navigation bar: About Us, Databases, Clinical Resources, Requests

Key Resources:

- Online Journals
- Online Books
- Point of Care Resources
- Mobile Resources
- Subject Guides
- Research Guides
- COVID-19 Updates
  - Useful Resources for Clinicians
  - HUMC Sign Out Info

Databases dropdown menu:

- ClinicalKey
- CINAHL
- Psychiatry Online
- DynaMed
- STAT!Ref
- Pediatric Care Online (on campus only)
- UpToDate (on campus only)
- Cochrane Database (on campus only)

Search Library Catalog

Search Full Text

## Databases

- [CINAHL \(Nursing & Allied Health\)](#)
- [ClinicalKey](#)
- [Cochrane Database \(on campus only\)](#)
- [DynaMed Plus](#)
- [Pediatric Care Online \(on campus only\)](#)
- [PsychiatryOnline](#)
- [STAT!Ref](#)
- [UpToDate \(on campus only\)](#)
- [Visual DX](#)

Application for Access to  
Online Resources

Request PubMed Search

Tutorials

Phone: 424-306-6100

Email: [libref@harbor-ucla.org](mailto:libref@harbor-ucla.org)

Hours: M-F 8:00am-5:30pm

After logging in with your Parlow username and password, you'll be taken to the DynaMed homepage where you can access DynaMed's features, or begin with a keyword search. DynaMed Decisions can be accessed by clicking on the tab at the top of the page.

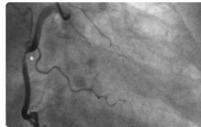


**Browse Specialties, Drug information, and Calculators**

CONFIDENCE IN PRACTICE

English

**Begin a keyword search here**



### Cardiology

Acute Coronary Syndromes, Stable Coronary Artery Disease, Heart Failure

[View Specialty](#)



### Oncology

Breast Cancers, Lung Cancers, Gastrointestinal Cancers, Lymphomas

[View Specialty](#)



### Dermatology

Ecematous Dermatoses, Malignant and Pre-malignant Lesions, Papulosquamous Dermatoses

[View Specialty](#)

# An Example Search Using DynaMed: A patient with an early-stage breast cancer diagnosis

The screenshot shows the DynaMed website interface. At the top, there is a navigation bar with 'DynaMed' and 'DynaMed Decisions' on the left, and 'Specialties', 'Drugs A-Z', 'Drug Interactions', 'Calculators', and 'Our Experts' on the right. Below this is a search bar containing the text 'breast cancer'. A dropdown menu is open below the search bar, showing search suggestions. The first suggestion, 'breast cancer', is circled in red. Other suggestions include 'breast cancer screening', 'breast cancer treatment', 'breast cancer in women', and 'breast cancer staging'. To the left of the search bar, there is a 'Cardiology' section with a sub-image of a heart scan and text: 'Acute Coronary Syndromes, Stable Coronary Artery Disease, Heart Failure'. Below this is a 'Recent Alerts' section with a blue header and a box containing the text 'Evidence • Updated 8 Dec 2021' and the start of a sentence: 'single cycle of IVM without ovarian stimulation has lower clinical preg'.

In this example, we'll search for information about breast cancer using the search box. DynaMed will suggest search terms and topics as you type. Here we will select a simple search for breast cancer by clicking the search icon (magnifying glass) or selecting "breast cancer" from the search suggestions.

On the search results page we see there are 55 results in total, and we have the option to narrow these results by content type.

There are also suggestions from DynaMed Decisions including clinical calculators and shared decision-making tools that can be used at the point of care.

SEARCH RESULTS

## breast cancer

**ALL (55)** VIDEOS (1) IMAGES (27)

### Narrow Results

#### CONTENT TYPE

- Approach To Patient (2)
- Condition (20)
- Drug Monograph (2)
- Drug Review (3)
- Evaluation (4)
- Lab Monograph (2)
- Management (19)
- Prevention (4)

CONDITION

### Breast Cancer in Women

This malignancy of the breast tissue is the most common malignancy diagnosed in women worldwide.

Management

#### Management of breast cancer in older women

CONDITION

### Breast Cancer in Men

Breast cancer is a malignancy rarely seen in men and comprises less than 1% of all breast cancer cases.

Management > Cancer-specific treatment

#### Medications for advanced breast cancer (Stage IV)

CONDITION

### Early and Locally Advanced Noninflammatory Breast Cancer

It is a potentially curable malignancy of the breast tissue that has no apparent spread beyond the regional lymph nodes.

MANAGEMENT

### From DynaMed Decisions

#### CLINICAL CALCULATOR

[Breast Cancer Risk - BCSC Model](#)

#### SHARED DECISION-MAKING TOOL

[Early-Stage Breast Cancer Treatment Options](#)

#### CLINICAL CALCULATOR

[Breast Cancer Risk - Gail Model](#)

#### SHARED DECISION-MAKING TOOL

[Breast Cancer Screening](#)

[Explore more at DynaMed Decisions](#)

We're going to narrow our search to Management and select the first result, "Management of Early or Operable Breast Cancer" to get more information about this topic, including information for the patient.

Note: "Management" in DynaMed is the same as "Treatment" in UpToDate.

SEARCH RESULTS

## breast cancer

ALL (19) VIDEOS (1) IMAGES (27)

Management 

### Narrow Results

#### CONTENT TYPE

- Approach To Patient (2)
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- Evaluation (4)
- Lab Monograph (2)
- Management (19)
- Prevention (4)

#### MANAGEMENT

### Management of Early or Operable Breast Cancer

Treatment includes surgery with possible radiation, endocrine therapy, chemotherapy, and/or targeted therapy.

### Adjuvant Systemic Therapy for Early Breast Cancer

#### MANAGEMENT

### Management of Breast Cancer Metastatic to Brain

Brain metastases from breast cancer are becoming more common.

#### MANAGEMENT

### Management of Breast Cancer Metastatic to Bone

Bone metastases are common in metastatic breast cancer, particularly in patients with hormone receptor (HR)-positive tumors.

From *DynaMed Decisions*

#### CLINICAL CALCULATOR

Breast Cancer Risk - BCSC Model

#### SHARED DECISION-MAKING TOOL

Early-Stage Breast Cancer Treatment Options

#### CLINICAL CALCULATOR

Breast Cancer Risk - Gail Model

#### SHARED DECISION-MAKING TOOL

Breast Cancer Screening

Updates related to this topic are found here

# Management of Early or Operable Breast Cancer

TOPIC IMAGES (1) **UPDATES**

Learn about the [GRADE system](#) used to classify recommendations as strong or weak, as well as DynaMed's other evidence-based processes.



Jump to different sections of this topic by clicking on a subsection heading

- Overview and Recommendations
  - Assessment for treatment planning
  - Neoadjuvant systemic therapy
  - Locoregional treatment
  - Adjuvant systemic therapy
  - Surveillance
- Related Topics
- General Information
- Assessment for Treatment Planning
- Treatment Selection
- Neoadjuvant Systemic Therapy for Early Breast Cancer
- Locoregional Therapy for Early Breast Cancer
- Adjuvant Systemic Therapy for Early Breast Cancer
- Other Management
- Approach to Microinvasive Breast Cancer
- Surveillance
- Management of Adverse Events
- Guidelines and Resources
- Patient Information
- References

## Overview and Recommendations

### Assessment for treatment planning

- Before treatment, perform [assessment for treatment planning](#) (**Strong recommendation**).
- Pretreatment advanced imaging** to assess for metastatic disease is indicated only for patients with signs and symptoms suggesting metastatic disease or those at high risk of recurrence.
- Additional tests for patients for whom neoadjuvant therapy is planned include:
  - assuring an image detectable marker is placed to mark the tumor bed for surgery (**Strong recommendation**)
  - adding axillary assessment with an exam, ultrasound, or other imaging (if not previously done), and needle biopsy of any suspicious or clinically positive lymph nodes (**Strong recommendation**); mark any positive lymph nodes from biopsy with a tattoo or clip to assure they are removed during surgery
  - evaluation of cardiac function with cardiac ultrasound or multigated acquisition scan before treatment with anthracyclines and/or trastuzumab (**Strong recommendation**)

### Neoadjuvant systemic therapy

- Neoadjuvant systemic therapy is not appropriate for all patients with operable breast cancer, but is indicated for:
  - patients who desire breast-conserving surgery, but mastectomy would be required due to the tumor size (**Strong recommendation**)
  - patients with clinically positive lymph nodes that are likely to become negative with neoadjuvant systemic therapy (**Weak recommendation**)
- Chemotherapy and endocrine therapy may each be used alone or in combination with human epidermal growth factor 2 (HER2) targeted therapy in the neoadjuvant setting; use of each

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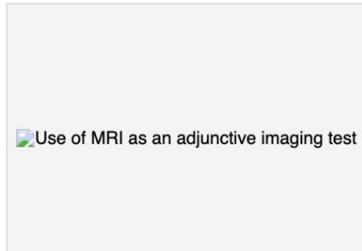
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Images [All \(1\)](#)



See info on editors, including affiliations and potential conflicts of interest here.

## Management of Early or Operable Breast Cancer

### Patient Information

- > Overview and Recommendations
  - Related Topics
  - General Information
- > Assessment for Treatment Planning
  - Treatment Selection
  - Neoadjuvant Systemic Therapy for Early Breast Cancer
- > Locoregional Therapy for Early Breast Cancer
- > Adjuvant Systemic Therapy for Early Breast Cancer
- > Other Management
- > Approach to Microinvasive Breast Cancer
- > Surveillance
- > Management of Adverse Events
- > Guidelines and Resources
- Patient Information**
- > References

### Patient Information

- handout on breast cancer from [EBSCO Health Library](#) 
- information on treating breast cancer from [MacMillan Cancer Support](#) 
- information on treating breast cancer from [American Cancer Society](#)  or in [Spanish](#) 
- information on how breast cancer is treated from [Centers for Disease Control and Prevention](#) 
- handouts from National Cancer Institute on
  - [breast cancer treatment](#)  or in [Spanish](#) 
  - [lymphedema and breast cancer surgery](#) 

### References

#### General references used

*The references listed below are used in this DynaMed topic primarily to support background information and for guidance where evidence summaries are not felt to be necessary. Most references are incorporated within the text along with the evidence summaries.*

1. Harbeck N, Gnant M. Breast cancer. [Lancet. 2017 Mar 18;389\(10074\):1134-50](#) 
2. Gradishar WJ, Anderson BO, Aft R, et al. Breast cancer. Version 1.2018. In: National Comprehensive cancer Network (NCCN) Clinical Practice Guidelines in Oncology (NCCN Guidelines). NCCN 2018 March from [NCCN website](#)  (free registration required)
3. Senkus E, Kyriakides S, Ohno S, et al; ESMO Guidelines Committee. Primary breast cancer: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. [Ann Oncol. 2015](#)

If we wanted information to give to our patient, clicking on the Patient Information subheading takes us to handouts and resources available from a variety of sites.

We can also use DynaMed Decisions to locate helpful shared decision-making tools related to breast cancer. By clicking on the DynaMed Decisions tab, we're taken to the main page which includes a search box. We'll enter our topic "breast cancer" here and search.

The screenshot shows the DynaMed Decisions website interface. At the top, there are two tabs: "DynaMed" and "DynaMed Decisions", with the latter highlighted by a red circle. Below the tabs is the main header "DynaMed Decisions" and a navigation bar with links for "Shared Decision-Making Tools", "Clinical Calculators", and "About". On the right side of the header, there is a search box containing the text "breast cancer", also highlighted by a red circle, with a magnifying glass icon to its right. Below the search box is a dropdown menu titled "GO TO" listing several search results related to breast cancer, including "Breast Cancer Risk - BCSC Model", "Breast Cancer Risk - Gail Model", and "Breast Cancer Screening". The main content area features a "WELCOME TO DYNAMED DECISIONS" section with a photo of a doctor and patient, followed by a "Clinical Calculators" section with a list of tools: "Breast Cancer Screening", "COPD Symptom Assessment", and "Bilirubinemia in Newborns". A "View All Clinical Calculators" button is located at the bottom of the list.

DynaMed DynaMed Decisions

DynaMed Decisions

Shared Decision-Making Tools Clinical Calculators About

breast cancer

GO TO

- Breast Cancer Risk - BCSC Model
- Breast Cancer Risk - Gail Model
- Breast Cancer Screening
- Mammogram for Breast Cancer Screening for People in Their 40s: Should I Have It?
- Mammogram for Breast Cancer Screening for People in Their 50s: Should I Have It?

WELCOME TO DYNAMED DECISIONS

Our product provides interactive tools to help clinicians and patients make the best health decisions based on evidence in the context of an individual's risks, comorbidities, values, and preferences.

**Clinical Calculators**

*Evidence-based, clinical decision support tools created by physicians to facilitate clinicians' workflows.*

- Breast Cancer Screening
- COPD Symptom Assessment
- Bilirubinemia in Newborns

View All Clinical Calculators >

SHOWING: **breast cancer**

SHARED DECISION-MAKING TOOL

[Early-Stage Breast Cancer Treatment Options](#)



CLINICAL CALCULATOR

[Breast Cancer Risk - Gail Model](#)



CLINICAL CALCULATOR

[Breast Cancer Risk - BCSC Model](#)



SHARED DECISION-MAKING TOOL

[Breast Cancer Screening](#)



SHARED DECISION-MAKING TOOL

[Mammogram for Breast Cancer Screening for People in Their 60s: Should I Have It?](#)



SHARED DECISION-MAKING TOOL

[Mammogram for Breast Cancer Screening for People in Their 40s: Should I Have It?](#)



SHARED DECISION-MAKING TOOL

[Mammogram for Breast Cancer Screening for People in Their 50s: Should I Have It?](#)



The results page offers shared decision-making tools and clinical calculators that may be useful at the point of care. For this example, we'll select the "Early-Stage Breast Cancer Treatment Options" tool.

## Early-Stage Breast Cancer Treatment Options

This decision aid is for people with early-stage breast cancer who are considering lumpectomy with radiation or mastectomy. It is not for people with inflammatory or late-stage breast cancer.

Another decision aid is available for breast reconstruction after mastectomy. [About Early-Stage Breast Cancer](#)



PATIENT QUESTIONS	Lumpectomy with Radiation	Mastectomy
What does the option involve?	You will have surgery to remove the cancer and some tissue around it. You may need another surgery if signs of cancer are on the edges of the removed tissue. You may go home the same day. After you heal, you will get radiation 5 days a week for 3 to 6 weeks.	You will have surgery to remove the whole breast. You may be in the hospital for at least 1 day. Tubes will be left under the skin for up to 2 weeks to help you heal.
What about these treatment options is the same?	No matter which treatment you choose: <ul style="list-style-type: none"> <li>• you may need other treatments like <b>radiation, hormones, or chemotherapy.</b></li> <li>• some lymph nodes in your armpit will be removed for testing.</li> </ul>	No matter which treatment you choose: <ul style="list-style-type: none"> <li>• you may need other treatments like <b>radiation, hormones, or chemotherapy.</b></li> <li>• some lymph nodes in your armpit will be removed for testing.</li> </ul>
How long will I live?	Research is unclear whether you will live longer with either option. Out of 100 people, about: <ul style="list-style-type: none"> <li>• <b>75 (75%) live 10 years or more.</b></li> <li>• <b>44 to 50 (44% to 50%) live 20 years or more.</b></li> </ul>	Research is unclear whether you will live longer with either option. Out of 100 people, about: <ul style="list-style-type: none"> <li>• <b>75 (75%) live 10 years or more.</b></li> <li>• <b>50 (50%) live 20 years or more.</b></li> </ul>
Will cancer come back anywhere?	About <b>29 to 36</b> of 100 people (29% to 36%) have cancer come back within <b>20 years.</b>	About <b>30</b> of 100 people (30%) have cancer come back within <b>20 years.</b>
What are the side effects and harms?	<i>After surgery,</i> pain, numbness, and swelling are common. Out of 100 people, shortly after surgery, about: <ul style="list-style-type: none"> <li>• <b>2 (2%) get an infection.</b></li> </ul> <i>After radiation,</i> you may feel tired, have peeling skin, or skin	<i>After surgery,</i> pain, numbness, and swelling are common. Out of 100 people, shortly after surgery, about: <ul style="list-style-type: none"> <li>• <b>5 (5%) get an infection.</b></li> <li>• <b>4 (4%) have skin death</b></li> </ul>

This tool allows us to provide quick answers to questions the patient may have about these treatment options.

Create a QR code, a link, or a printable PDF for the patient.

# Other DynaMed Resources

- [DynaMed Clinical Toolkit](#) from UCF's Harriet F. Ginsburg Health Sciences Library
- EBSCO's general [DynaMed User Guide](#)
- [DynaMed](#) and [DynaMed Decisions](#) video tutorials from EBSCO
- EBSCO instructions for [installing and authenticating the DynaMed app](#)
- EBSCO guide to [claiming CME credits and hours](#) in DynaMed

# Contact Us

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