



National
Comprehensive
Cancer
Network®

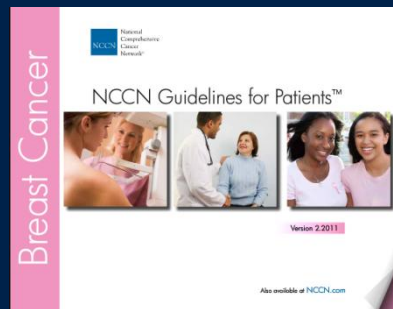
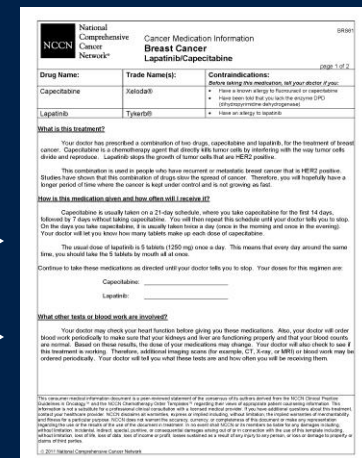
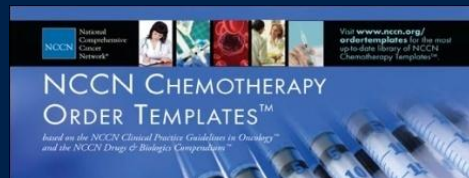
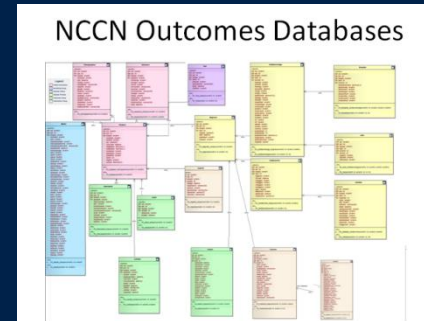
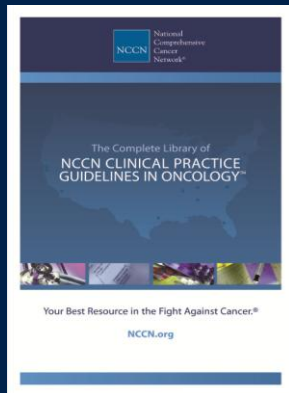
NCCN.org



What is NCCN?

- **Arbiter of high-quality cancer care**
- **Developer and Promoter of National Programs to facilitate the fulfillment of member institution missions in education, research, and patient care and to incrementally advantage NCCN institutions in the marketplace**
- **Developer and Communicator of scientific, evaluative information to better inform the decision-making process between patients and physicians, ultimately improving patient outcomes**
- **Seek to enhance the effectiveness and efficiency of cancer care through information resources, outcomes research, clinical trials, and other contributions to the cancer care delivery system**


Integrated Suite of NCCN Information Products



NCCN Guidelines™

- **Comprehensive across all stages, modalities and continuum of care**
 - 47 multidisciplinary expert panels with 25-30 experts per panel (Volunteer time and expertise)
 - Cancer screening, diagnosis, treatment and supportive care
- **Updated at least annually and up to 4 times per year since 1995**
- **Category of evidence and consensus designated for each recommendation**
- **Transparent processes**
- **Centerpiece of suite of tools to support quality oncology care**

Guidelines Available on NCCN.org



National
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National Comprehensive Cancer Network

Your Best Resource in the Fight Against Cancer®

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RSS


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NCCN Guidelines®

- NCCN Guidelines User System (GUS™)
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- NCCN Flash Updates™
- On-line Catalog
- JNCCN – The Journal of the National Comprehensive Cancer Network
- NCCN Disclosure Policies & Potential Conflicts of Interest
- Upcoming Events
- CME/CE Programs

Legend

 NCCN Guidelines® User System (GUS™)

 NCCN Guidelines®

NCCN Guidelines® & Clinical Resources

NCCN Guidelines®

NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) are posted with the latest update date and version number.

New! NCCN Guidelines® User System (GUS™) - Access an interactive version of the NCCN Guidelines with enhanced interfacing and functionality. NCCN is launching GUS™ with the following NCCN Guidelines: Cancer- and Chemotherapy-Induced Anemia, Chronic Myelogenous Leukemia, Multiple Myeloma, Prostate Cancer, and Systemic Light Chain Amyloidosis.

NCCN Mobile Applications - Access the NCCN Guidelines anywhere and at anytime through free NCCN Guidelines mobile apps for iPhone and Android.

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NCCN Guidelines for Treatment of Cancer by Site

NCCN Guidelines for Detection, Prevention, & Risk Reduction

NCCN Guidelines for Supportive Care

NCCN Guidelines for Patients™

NCCN Guidelines for Treatment of Cancer by Site

- Acute Myeloid Leukemia 
- Anal Carcinoma  
- Bladder Cancer  

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Quick Links


- NCCN Guidelines® - FREE
- NCCN Compendium®
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Upcoming Events

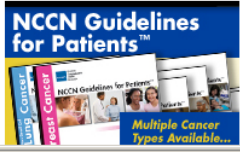
- 2012 NCCN Pharmacy Program: Best Practices in Oncology Pharmacy Management™ - (3/14/2012)**
- 2012 NCCN Nursing Program: Advancing Oncology Nursing - (3/14/2012)**
- NCCN 17th Annual Conference: Clinical Practice Guidelines & Quality Cancer Care™ - Hollywood, FL (3/14/2012 - 3/18/2012)**

more

Register Now!



NCCN 17th Annual Conference
CLINICAL PRACTICE GUIDELINES & QUALITY CANCER CARE™
2012
March 14-18
The Weston Diplomat
Hollywood, Florida



NCCN Guidelines for Patients™
Multiple Cancer Types Available...

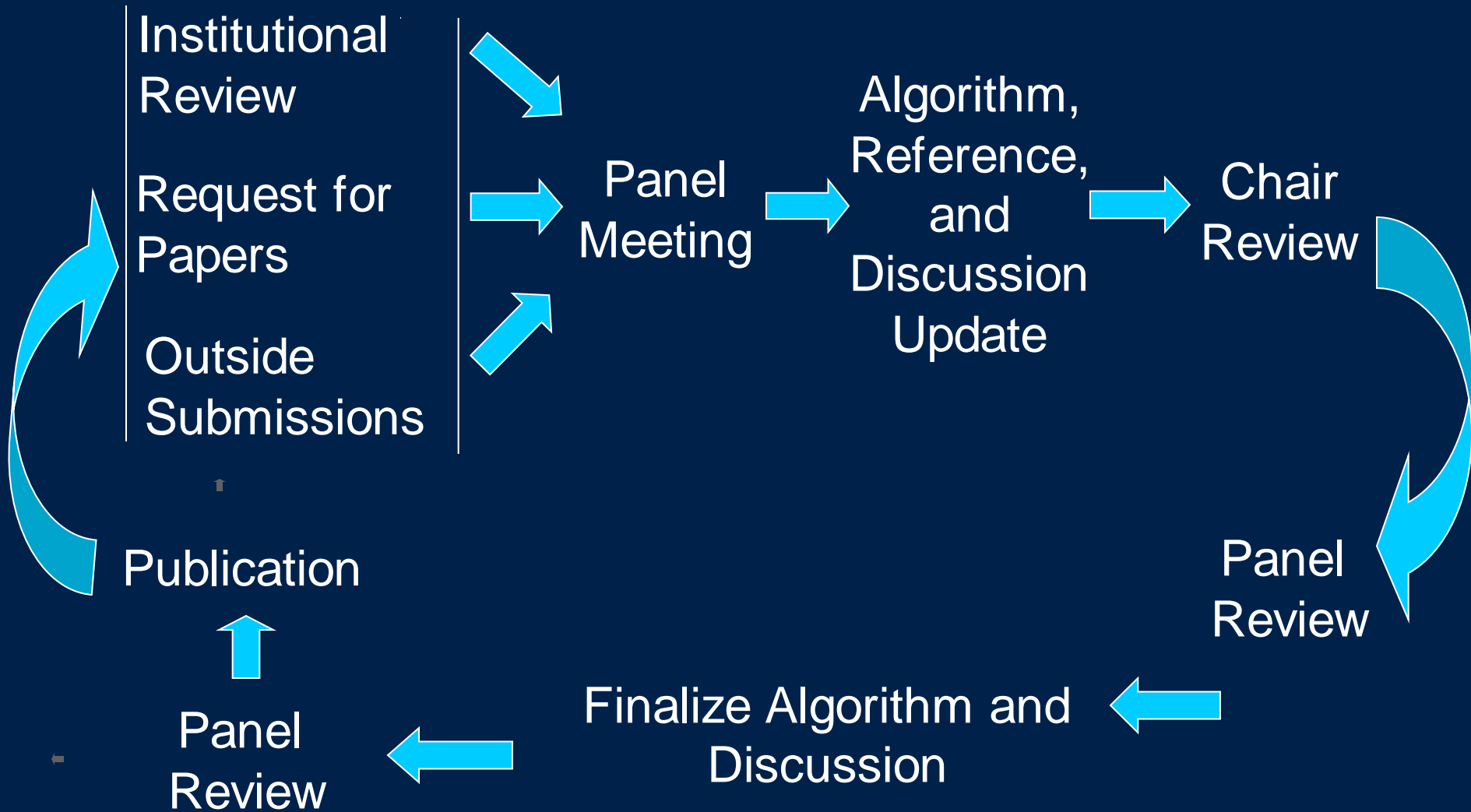
Parts of a Guideline

- Panel list
- Table of Contents
- Algorithms including special topics
- Discussion
- References

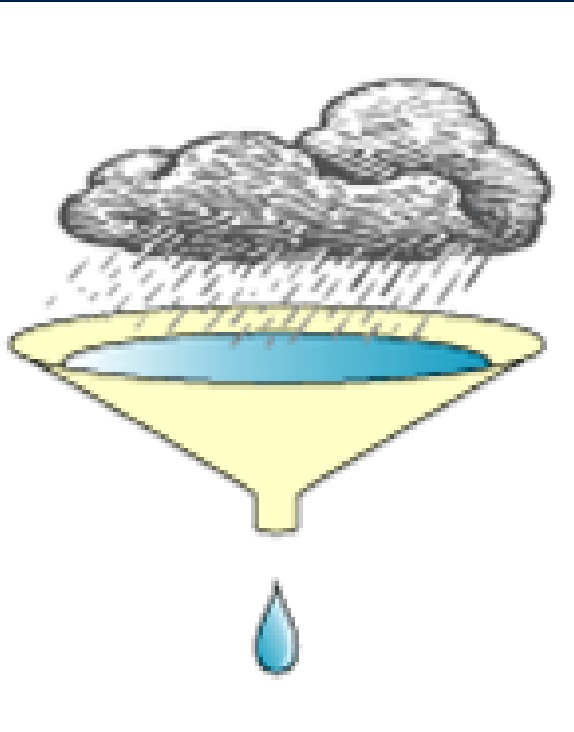
Who Develops Guidelines

- Faculty from Member Institutions
 - Multidisciplinary
 - Volunteers
 - Mix of senior, mid-career, and junior faculty
- NCCN Staff Support
 - Oncology scientist
 - Guidelines coordinator
 - Administrative assistants

Guideline Update Process: Continuous Improvement



Evidence



Data from multiple studies and sources

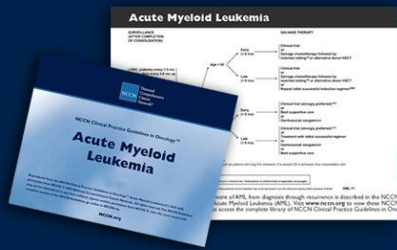
Expert evaluation

Distill appropriate recommendations

- Ongoing process
- The amount of data available differs across disease sites and across clinical decisions within a disease site
- Continuous review of evidence and guideline updates is required
- New studies **WILL** change the standard of care over time



NCCN Guidelines®



NCCN Categories of Evidence and Consensus

- **Category 1**: Based upon high-level evidence, there is uniform NCCN consensus that the intervention is appropriate.
- **Category 2A**: Based upon lower-level evidence, there is uniform NCCN consensus that the intervention is appropriate.
- **Category 2B**: Based upon lower-level evidence, there is NCCN consensus that the intervention is appropriate.
- **Category 3**: Based upon any level of evidence, there is major NCCN disagreement that the intervention is appropriate.

All recommendations are category 2A unless otherwise noted.

Critical Analysis and Culling of Data

- NCCN Categories of Evidence
 - 1, 2A, 2B, 3
- Consistency of evidence
 - Highly consistent, single trial, variable data
- Extent of evidence
 - Extensive, less extensive, little, clinical experience
- Quality of evidence
 - Meta analysis/systematic review, RTCs, nonRTCs, clinical experience

Melding Evidence with Expertise

- While data are objective, application of data is not
- Clinical judgement is always subjective
- The specified cutoffs for treatment or no treatment, testing or no testing, the weighing of risk versus benefit reflect the values and preferences of the experts who write the recommendations.

Pamela Hartzband, M.D., and Jerome Groopman, M.D. N ENGL J MED 2011; 365:1372-1373

Making Recommendations

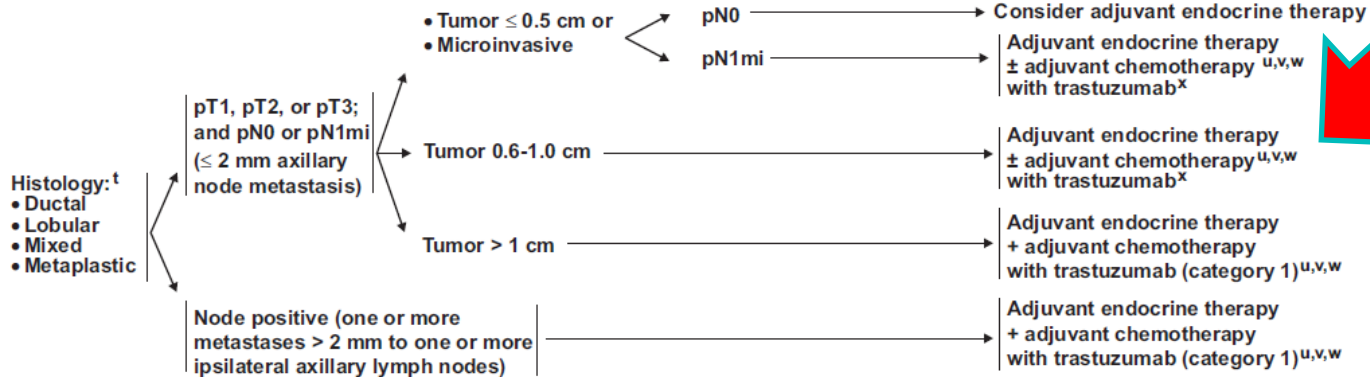
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NCCN Guidelines Version 1.2012 Invasive Breast Cancer

[NCCN Guidelines Index](#)
[Breast Cancer Table of Contents](#)
[Staging, Discussion](#)

SYSTEMIC ADJUVANT TREATMENT - HORMONE RECEPTOR POSITIVE - HER2 POSITIVE DISEASE^b



[See Follow-Up \(BINV-16\)](#)
[See Adjuvant Endocrine Therapy \(BINV-J\)](#) and [Adjuvant Chemotherapy \(BINV-K\)](#)

^bSee Principles of HER2 Testing (BINV-A).

^tMixed lobular and ductal carcinoma as well as metaplastic carcinoma should be graded based on the ductal component and treated based on this grading. The metaplastic or mixed component does not alter prognosis.

^uEvidence supports that the magnitude of benefit from surgical or radiation ovarian ablation in premenopausal women with hormone-receptor-positive breast cancer is similar to that achieved with CMF alone. Early evidence suggests similar benefits from ovarian suppression (ie, LHRH agonist) as from ovarian ablation. The combination of ovarian ablation/suppression plus endocrine therapy may be superior to suppression alone. The benefit of ovarian ablation/suppression in premenopausal women who have received adjuvant chemotherapy is uncertain.

^vChemotherapy and endocrine therapy used as adjuvant therapy should be given sequentially with endocrine therapy following chemotherapy. The benefits of chemotherapy and of endocrine therapy are additive. However, the absolute benefit from chemotherapy may be small. The decision to add chemotherapy to endocrine therapy should be individualized, especially in those with a favorable prognosis where the incremental benefit of chemotherapy may be smaller. Available data suggest that sequential or concurrent endocrine therapy with radiation therapy is acceptable.

^wThere are limited data to make chemotherapy recommendations for those over 70 y old. Treatment should be individualized with consideration of comorbid conditions.

^xThe prognosis of patients with T1a and T1b tumors that are node negative is generally favorable even when HER2 is amplified or over-expressed. This is a population of breast cancer patients that was not studied in the available randomized trials. The decision for use of trastuzumab therapy in this cohort of patients must balance the known toxicities of trastuzumab, such as cardiac toxicity, and the uncertain, absolute benefits that may exist with trastuzumab therapy.

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.



The Universe of Data

PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

Breast neoplasms AND adjuvant therapy AND trastuzumab

Search

Clinical Study Categories

Category:

Scope:

Results: 5 of 767

Adjuvant trastuzumab in HER2-positive breast cancer.

[N Engl J Med. 2011]

[Appearance of skin and nail toxicity in patients with breast cancer who underwent trastuzumab-containing chemotherapy].

[Gan To Kagaku Ryoho. 2011]

Elucidating an uncommon disease: inflammatory breast cancer.

[J Natl Cancer Inst. 2011]

Pathological complete response and prognosis in patients receiving neoadjuvant paclitaxel and trastuzumab with and without anthracyclines for stage II and III. [Anticancer Res. 2011]

Surgery following neoadjuvant therapy in patients with HER2-positive locally advanced or inflammatory breast cancer participating in the NeOAdjuvant Herce| [Eur J Surg Oncol. 2011]

[See all \(767\)](#)

Display citations filtered to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#) See more [filter information](#).

Systematic Reviews

Results: 5 of 58

[Node negative breast cancer. Beyond international consensus: a pragmatic approach].

[Bull Cancer. 2011]

Trastuzumab in the adjuvant treatment of HER2-positive early breast cancer patients: a meta-analysis of published randomized controlled trials.

[PLoS One. 2011]

Multifactorial central nervous system recurrence susceptibility in patients with HER2-positive breast cancer: epidemiological and clinical data from a population-based cancer reg [Cancer. 2011]

[Cardiac safety of trastuzumab in adjuvant: a review across 53 observations].

[J Gynecol Obstet Biol Reprod (Paris). 2011]

Cardiac toxicity of trastuzumab: experience at the Ghent University Hospital, Belgium.

[Acta Clin Belg. 2010]

[See all \(58\)](#)

Display citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional [related sources](#).

Medical Genetics

Topic:

Results: 5 of 182

Surgery following neoadjuvant therapy in patients with HER2-positive locally advanced or inflammatory breast cancer participating in the NeOAdjuvant Herce| [Eur J Surg Oncol. 2011]

[Node negative breast cancer. Beyond international consensus: a pragmatic approach].

[Bull Cancer. 2011]

Genomic testing and therapies for breast cancer in clinical practice.

[Am J Manag Care. 2011]

Management and outcome of HER2-positive early breast cancer treated with or without trastuzumab in the adjuvant trastuzumab era. [Clin Breast Cancer. 2011]

Adjuvant effect of HER-2/neu-specific adenoviral vector stimulating CD8⁺ T and natural killer cell responses on anti-HER-2/neu antibody therapy for well- ϵ [Cancer Gene Ther. 2011]

[See all \(182\)](#)

Display citations pertaining to topics in medical genetics. See more [filter information](#).

Narrower Scope

PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

Breast neoplasms AND adjuvant therapy AND trastuzumab AND hormone receptor positive

Search

Clinical Study Categories

Category:

Scope:

Results: 5 of 53

Hormonal therapy plus bevacizumab in postmenopausal patients who have hormone receptor-positive metastatic breast cancer: a phase II Trial of the Sarah [\[Clin Breast Cancer. 2011\]](#)

Multifactorial central nervous system recurrence susceptibility in patients with HER2-positive breast cancer: epidemiological and clinical data from a population-based cancer reg [\[Cancer. 2011\]](#)

Early breast cancer in the older woman.

[\[Oncologist. 2011\]](#)

Lapatinib in breast cancer: clinical experiences and future perspectives.

[\[Cancer Treat Rev. 2010\]](#)

Semiquantitative hormone receptor level influences response to trastuzumab-containing neoadjuvant chemotherapy in HER2-positive breast cancer. [\[Mod Pathol. 2011\]](#)

[See all \(53\)](#)

Display citations filtered to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#) See more [filter information](#).

Systematic Reviews

Results: 4 of 4

Multifactorial central nervous system recurrence susceptibility in patients with HER2-positive breast cancer: epidemiological and clinical data from a population-based cancer reg [\[Cancer. 2011\]](#)

Impact of treatment characteristics on response of different breast cancer phenotypes: pooled analysis of the German neoadjuvant chemotherapy trials. [\[Breast Cancer Res Treat. 2011\]](#)

Current standards in the treatment of metastatic breast cancer with focus on Lapatinib: a review by a Central European Consensus Panel. [\[Wien Klin Wochenschr. 2010\]](#)

Overview of resistance to systemic therapy in patients with breast cancer.

[\[Adv Exp Med Biol. 2007\]](#)

[See all \(4\)](#)

Display citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional [related sources](#).

Medical Genetics

Topic:

Results: 5 of 8

Multifactorial central nervous system recurrence susceptibility in patients with HER2-positive breast cancer: epidemiological and clinical data from a population-based cancer reg [\[Cancer. 2011\]](#)

Multigene assays and isolated tumor cells for early breast cancer treatment: time for bionetworks. [\[Expert Rev Anticancer Ther. 2010\]](#)

HER2 and chromosome 17 effect on patient outcome in the N9831 adjuvant trastuzumab trial. [\[J Clin Oncol. 2010\]](#)

Neoadjuvant chemotherapy with trastuzumab followed by adjuvant trastuzumab versus neoadjuvant chemotherapy alone, in patients with HER2-positive locally advanced b [\[Lancet. 2010\]](#)

Hormone receptor status and pathologic response of HER2-positive breast cancer treated with neoadjuvant chemotherapy and trastuzumab. [\[Ann Oncol. 2008\]](#)

[See all \(8\)](#)

Display citations pertaining to topics in medical genetics. See more [filter information](#).

Panels' Clinical Trials Evaluation

- Patient cohort—staging, markers, comorbid conditions, prior therapy, demographics, etc.
- Statistical plan—appropriate, planned analyses
- Appropriate comparator
- Dose, dose adjustments, reporting and management of AEs, etc
- Response assessment methods and consistency
- Analysis of results

Use Seminal References

- 1007 citations on adjuvant therapy for HER2 overexpressed breast cancer in PubMed
- NCCN panel judged 11 published papers and 3 abstracts from professional meetings persuasive
- These references are included in the guidelines with links to abstracts

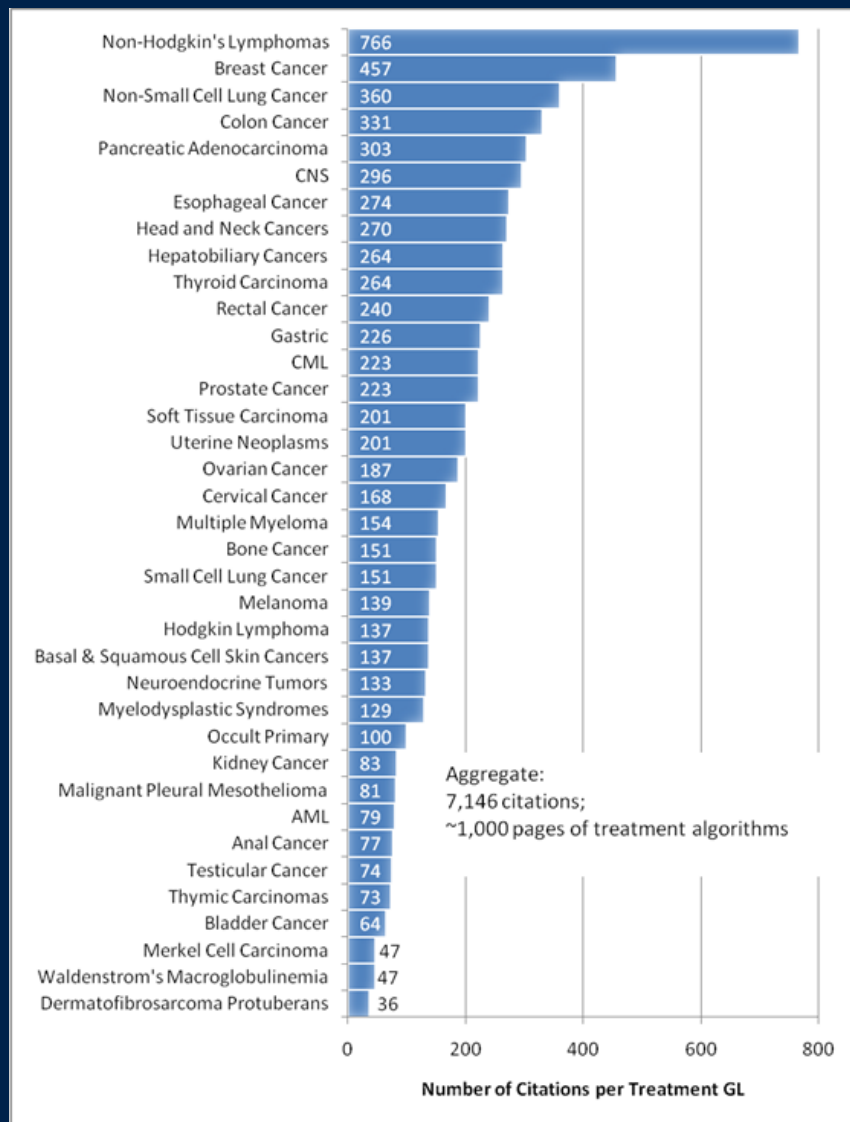
Therapeutic Index



- Each recommendation is considered in light of both safety and efficacy
- In adjuvant setting, safety and efficacy are equally weighted
- In potentially curative situation, more toxicity is tolerated for good efficacy
- In palliative setting, less toxicity is acceptable

Citations Across Guidelines

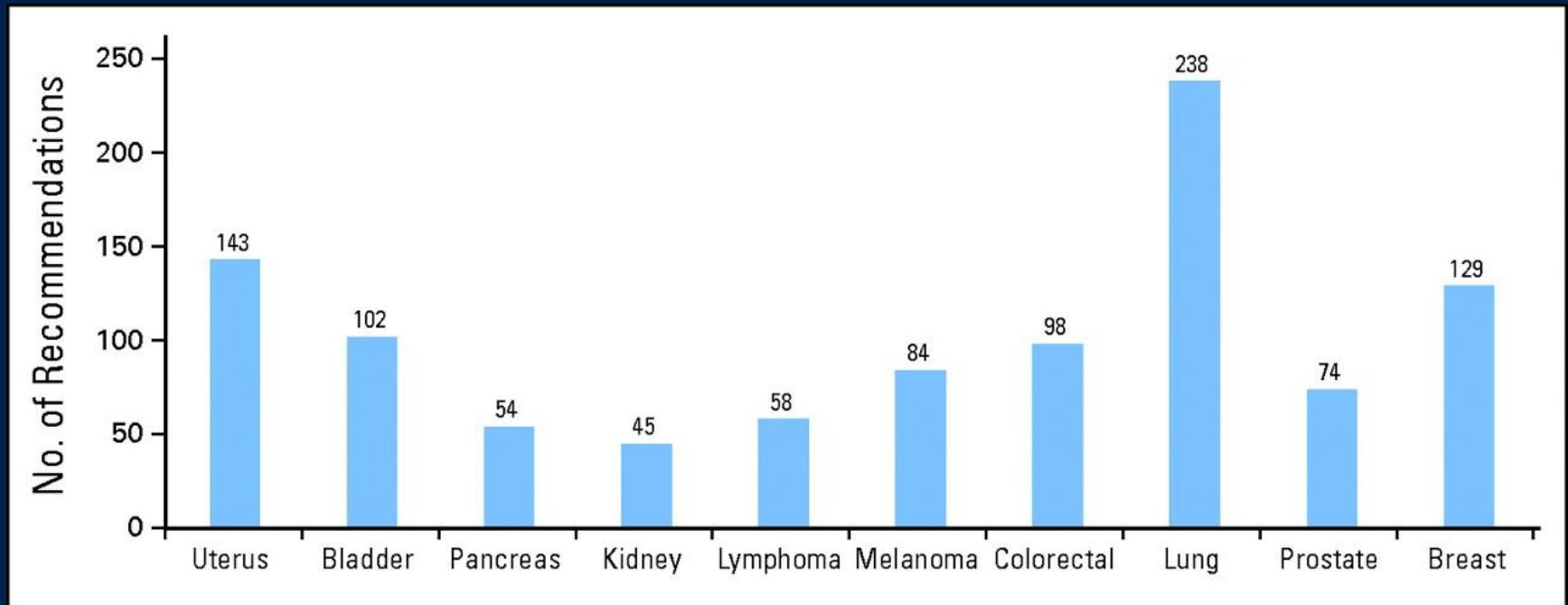
Preliminary Data



In general:

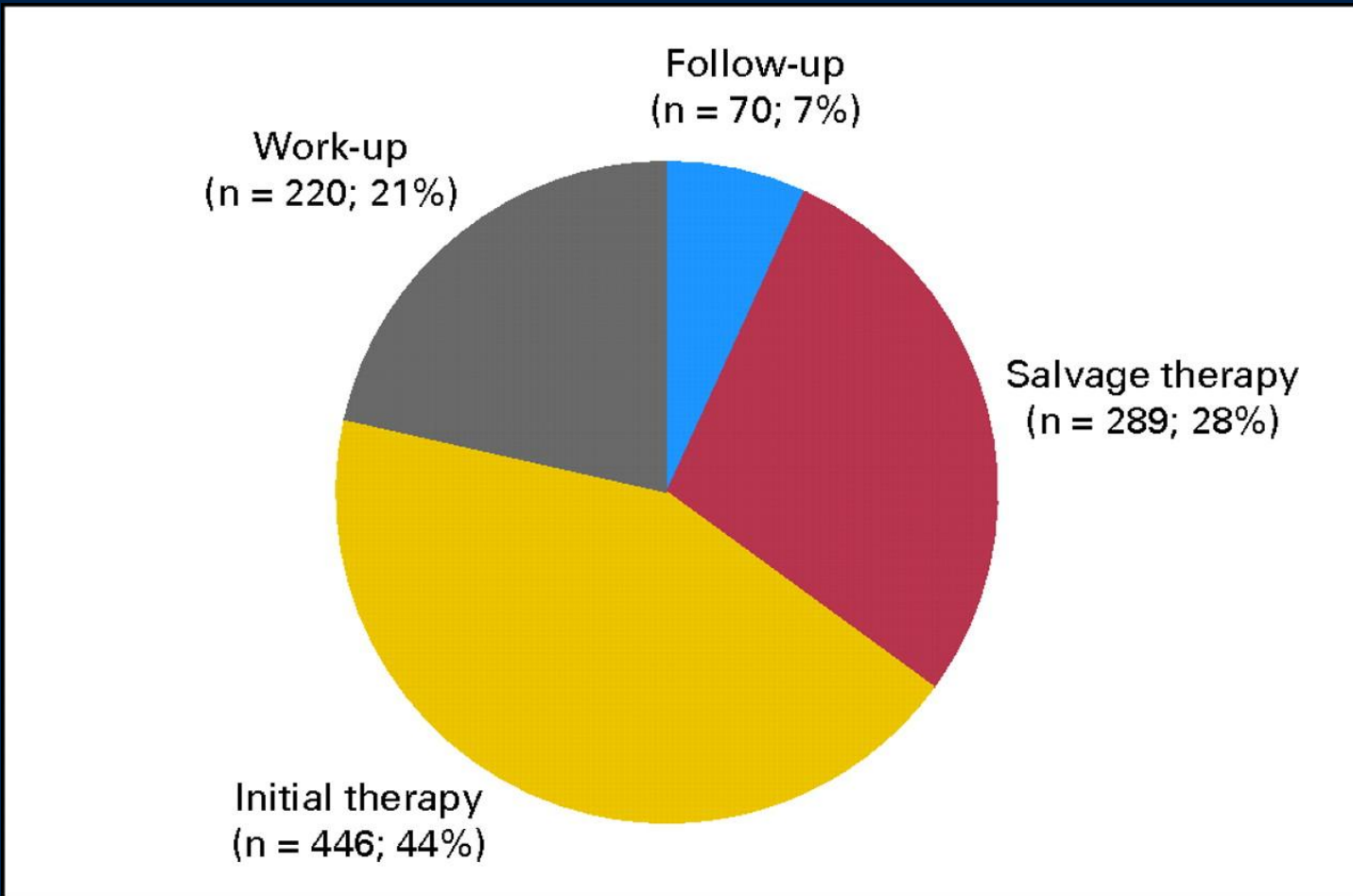
- More references:
 - Large complicated guidelines
 - Large numbers of patients
 - High priority cancers
- Fewer references
 - Lower incidence
 - Few innovations
 - Fewer effective interventions

Recommendations per Guideline

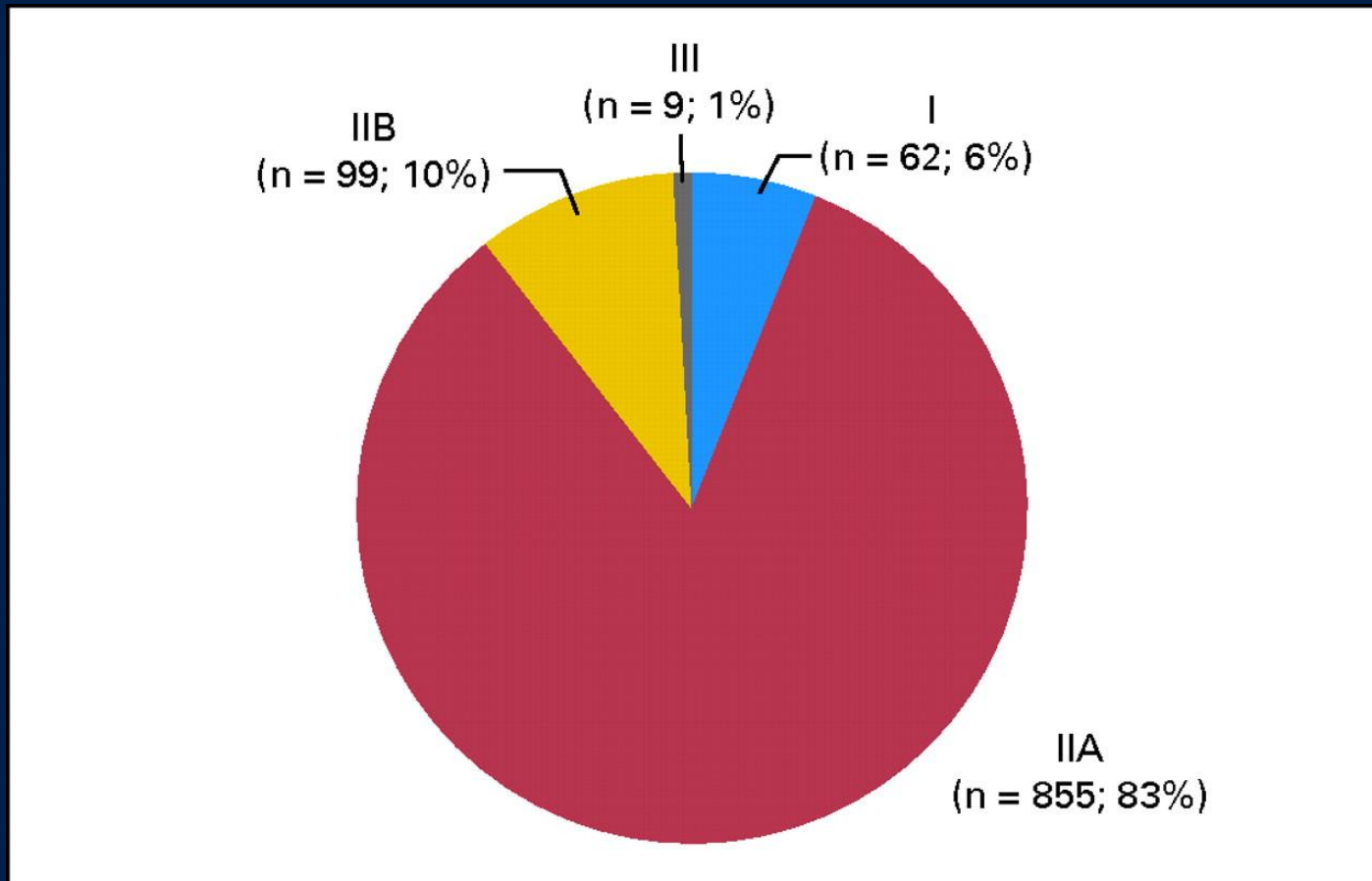


Poonacha T K , Go R S JCO 2011;29:186-191

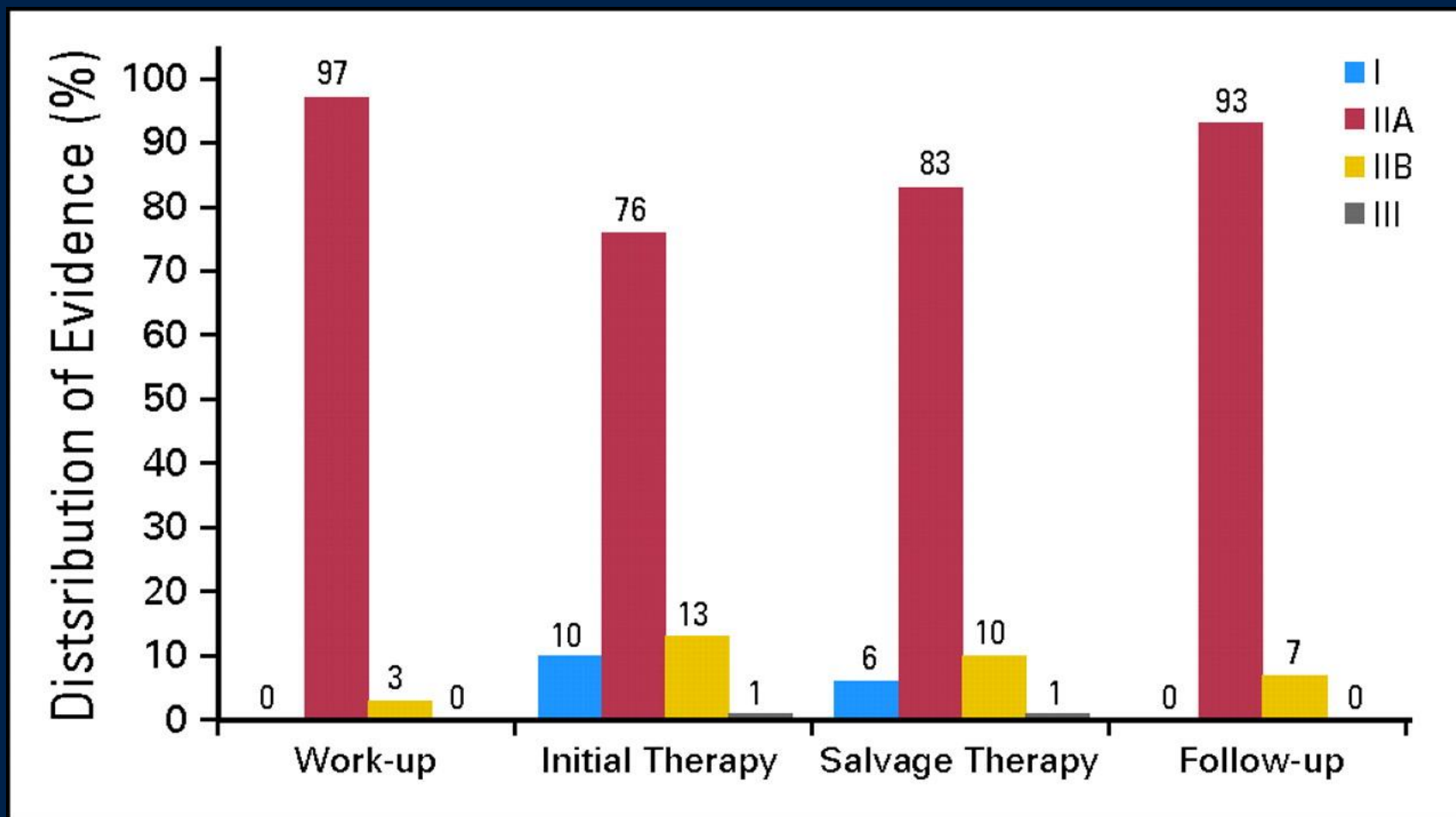
Types of Recommendations



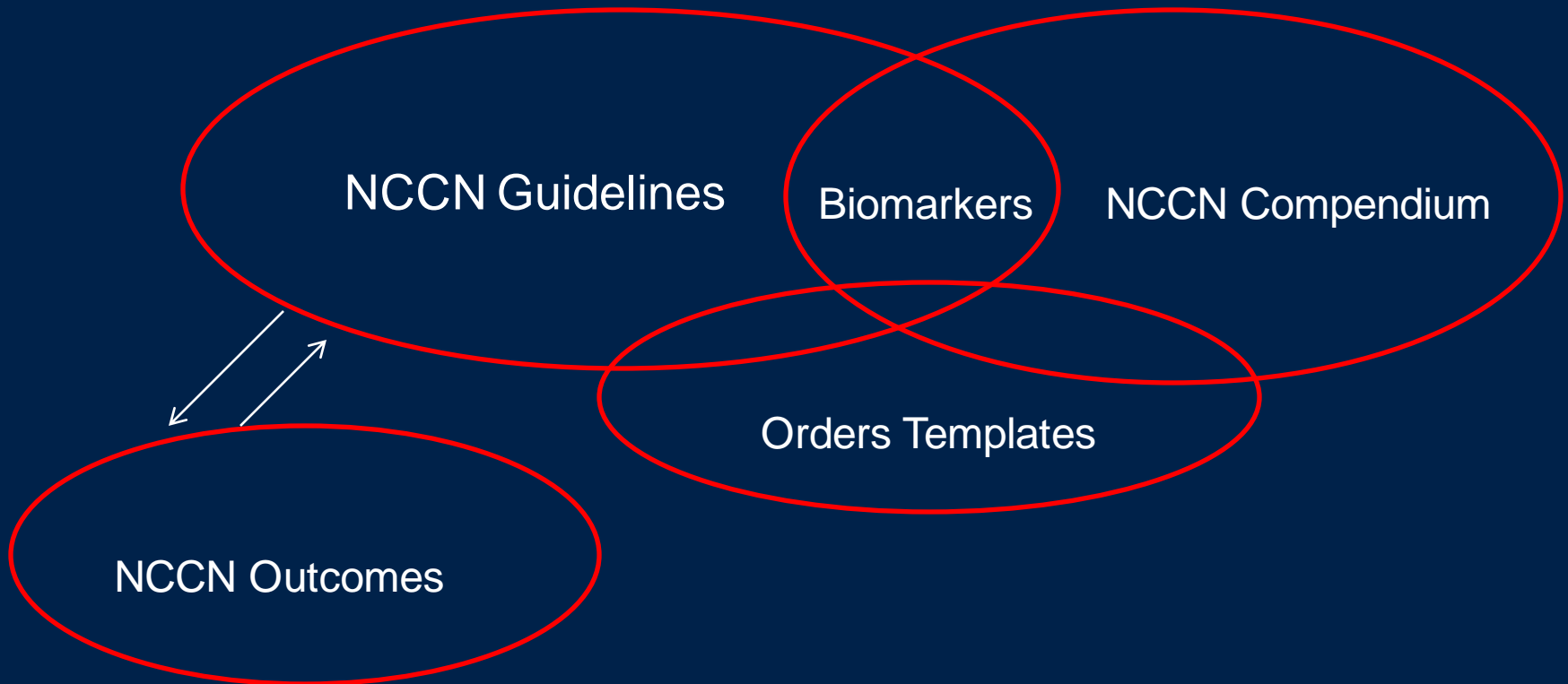
Recommendations by Evidence Category



Evidence by Type of Recommendation



Content Relationships



Submitting Data to NCCN Panels

The screenshot shows the NCCN website's 'Submission Request to the NCCN Guidelines Panels' page. The page header includes the NCCN logo and the tagline 'Your Best Resource in the Fight Against Cancer®'. A navigation bar contains links for 'NCCN Guidelines™ & Clinical Resources', 'Educational Events & Programs', 'NCCN Research & Business Resources', 'About NCCN', 'Subscriptions & Products', and 'For Patients'. The main content area is titled 'NCCN Guidelines™ & Clinical Resources' and 'Submission Request to the NCCN Guidelines Panels'. It includes a 'Please complete the following information:' section with fields for Name, Company/Organization, Address, Phone, E-mail, Date of request, and NCCN Guidelines Panel. Below this is a 'Guidelines for Submissions:' section with a bulleted list of requirements. A 'Quick Links' section on the right offers options like 'Clinicians', 'NCCN Guidelines™ - FREE', and 'NCCN Compendium™'. An 'Upcoming Events' section lists recent and upcoming events. A sidebar on the left provides navigation for various NCCN resources.

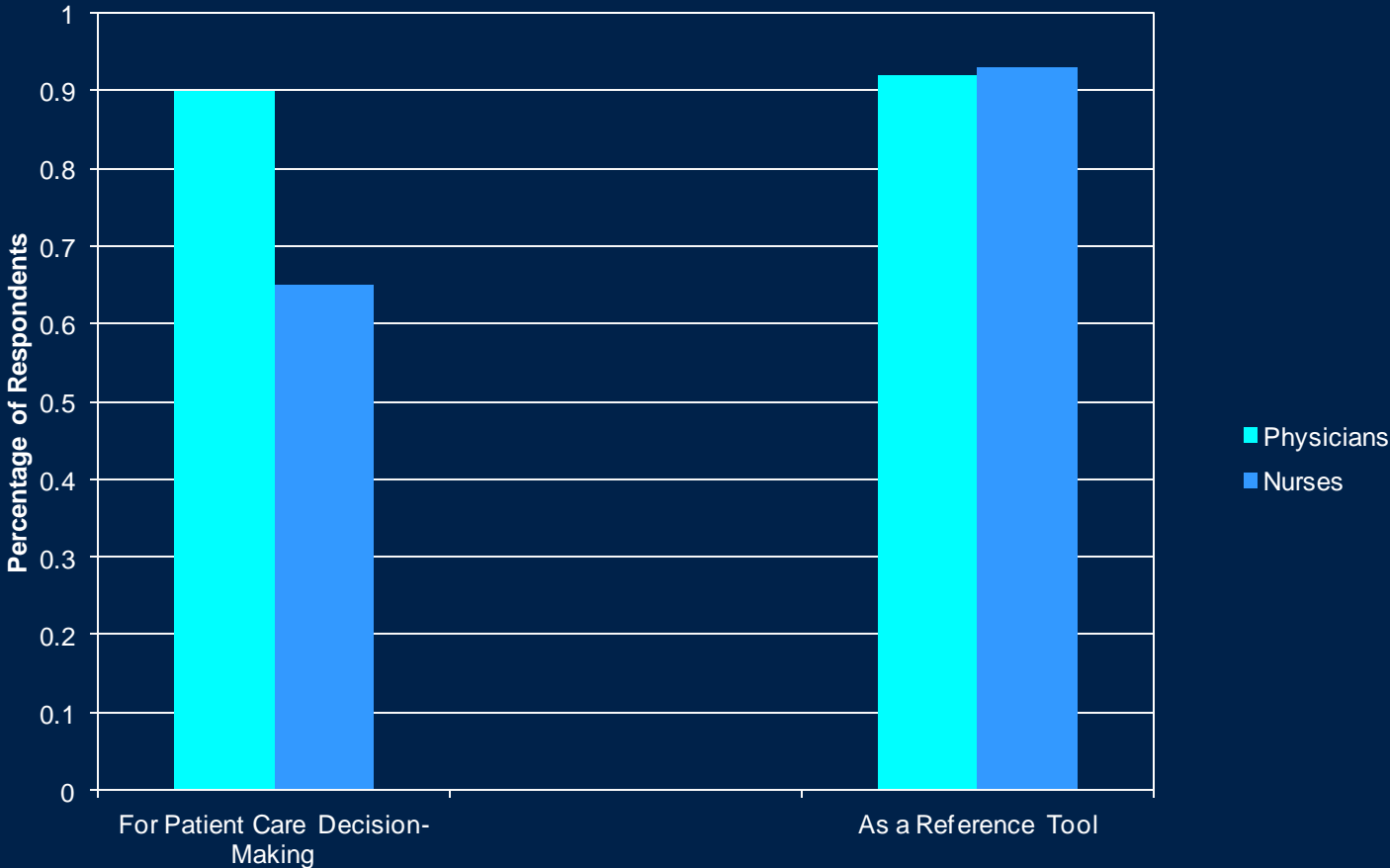
- Submissions from community sites, industry, payers, and the advocacy community
- The quality of the data is paramount
- Data submitted to the NCCN (not to individual panel members)
- Panel members interpret the data using their expert judgement

Disclosure

- No industry or any other interest group funds are used to support panel meetings
- No industry representatives allowed at meetings
- Individual panel members disclose conflicts of interest at least annually
- Specific limits on financial relationships
- Financial conflicts of interest published for individuals on nccn.org.
- Members are excused from deliberations when degree of conflict warrants

Guidelines Implementation

Clinicians Use NCCN Guidelines for Patient Care Decision-Making and As a Reference Tool (n= 1,861)



Challenges in Implementation of Guidelines

- Guideline distribution is not enough
- Education alone is not adequate to change practice
- Disease site guidelines are more readily adopted

Strategies to Encourage Implementation

- Coverage policy can encourage adoption
- Incorporation in clinical support tools can help
- Benchmarking concordance against standard increases awareness
- Patient reported outcomes of own patients can improve adoption

NCCN Guidelines for Patients™



Breast Cancer

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

Melanoma

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

Chronic Myelogenous Leukemia

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

Malignant Pleural Mesothelioma

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

Version 2011

BARON & BUDD, P.C. NCCN Guidelines for Patients™, Malignant Pleural Mesothelioma Presented with support from the national law firm of Baron & Budd

Also available at NCCN.com

PROSTATE CANCER

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

NON-SMALL CELL LUNG CANCER

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

MULTIPLE MYELOMA

NCCN National Comprehensive Cancer Network

NCCN Guidelines for Patients™

OVARIAN CANCER

NCCN National Comprehensive Cancer Network

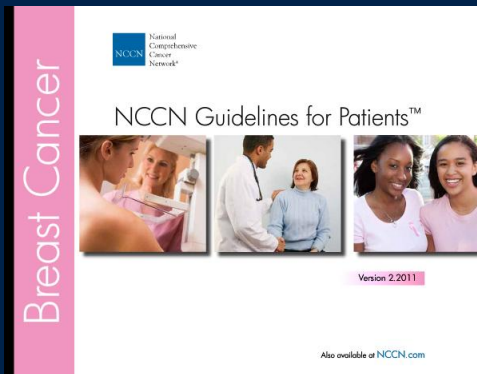
NCCN Guidelines for Patients™

Version 2010

Also available at NCCN.com



NCCN Guidelines for Patients™



Part 7: A step-by-step treatment guide

Table 6. Chemotherapy regimens for recurrent or metastatic breast cancer

Preferred agents	Preferred combinations
Doxorubicin	CAF/FAC (cyclophosphamide/doxorubicin/fluorouracil)
Epirubicin	FEC (fluorouracil/epirubicin/cyclophosphamide)
Pegylated liposomal doxorubicin	AC (doxorubicin/cyclophosphamide)
Paclitaxel	AT (doxorubicin/docetaxel or doxorubicin/paclitaxel)
Docetaxel	CMF (cyclophosphamide/methotrexate/fluorouracil)
Albumin-bound paclitaxel	Docetaxel/capecitabine
Capecitabine	GT (gemcitabine/paclitaxel)
Gemcitabine	Other combinations
Vinorelbine	Ixabepilone and capecitabine
Eribulin	Preferred agents for HER2-positive tumors
Paclitaxel with bevacizumab	Trastuzumab and paclitaxel with or without carboplatin
Other agents	Trastuzumab and docetaxel
Cisplatin	Trastuzumab and vinorelbine
Carboplatin	Trastuzumab and capecitabine
Cyclophosphamide	Preferred agents for trastuzumab-treated HER2-positive tumors
Mitoxantrone	Lapatinib and capecitabine
	Trastuzumab with different chemotherapy drug than was used before
	Trastuzumab and capecitabine
	Trastuzumab and lapatinib (with no other chemotherapy)

Part 7: A step-by-step treatment guide

HER2 positive and hormone negative/refractory

Spread of cancer	Treatment
	Denosumab or bisphosphonate if bone metastases
Bone or soft tissue only or no symptoms of spread	Consider different hormone therapy unless no response to 2 or 3 back-to-back therapies
Symptoms of cancer in internal organs	Trastuzumab with or without chemotherapy
	Trastuzumab with or without chemotherapy
	Use different chemotherapy or trastuzumab with lapatinib
	Consider supportive care only if no response to three regimens or in poor general health
	For hormone therapy, see the next chart.
	For follow-up hormone therapy, see Part 7.7.5.

This chart is for women with tumors that are HER2-positive and hormone receptor—negative or that have not responded to hormone therapy. Hormone therapy may be given if your cancer has spread only to the bones or soft tissues, or your cancer has spread to other organs that are still working well. Otherwise, since the tumor is HER2 positive, trastuzumab may be given either alone or with chemotherapy. If your cancer still grows, trastuzumab may be continued with

a different chemotherapy drug. Another choice is to try a combination of lapatinib with more trastuzumab or with another chemotherapy drug. If the tumor does not shrink after three different chemotherapy regimens, stopping chemotherapy and receiving supportive care may be your best option. If you have bone metastases, treat dental problems first before taking bisphosphonate or denosumab.

How is DCIS First Suspected?

- Most often by screening mammography
- Rarely a lump is felt by the woman or the clinician
- Which type of physician interacts with the patient at which stage varies
 - Primary care physician
 - Gynecologist
 - Diagnostic radiologist
 - Interventional radiologist
 - Surgeon

Followup of Abnormal Mammogram

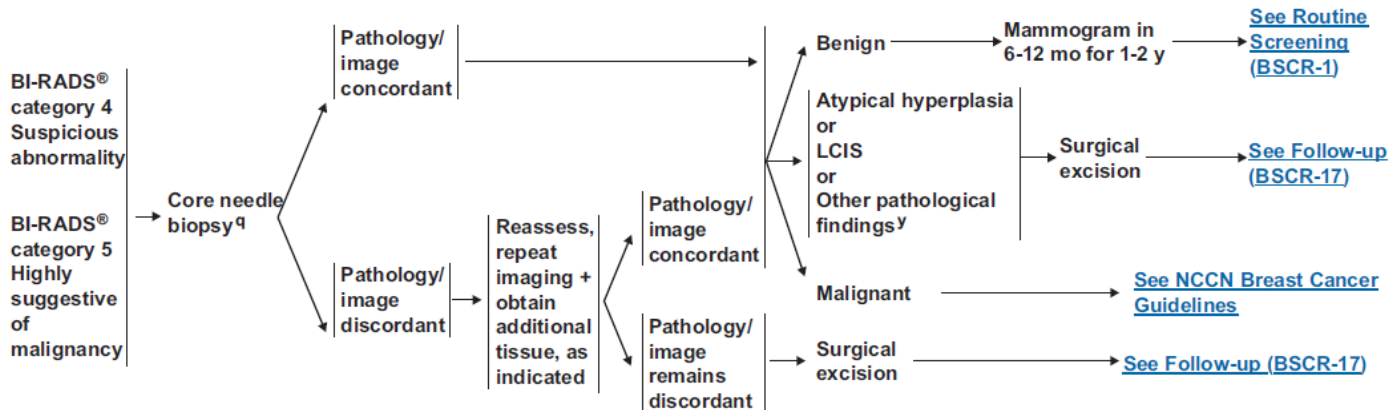
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NCCN Guidelines™ Version 1.2011 Breast Cancer Screening and Diagnosis

[NCCN Guidelines Index](#)
[Breast Screening Table of Contents](#)
[Discussion, References](#)

ASSESSMENT DIAGNOSTIC MAMMOGRAM FOLLOW-UP CATEGORY^{j,k}



^jSee [Mammographic Assessment Category Definitions \(BSCR-C\)](#).

^kMammography results are mandated to be reported using Final Assessment categories (Mammography Quality Standards Act, Final Rule. Federal Register 62(208):55988, 1997).

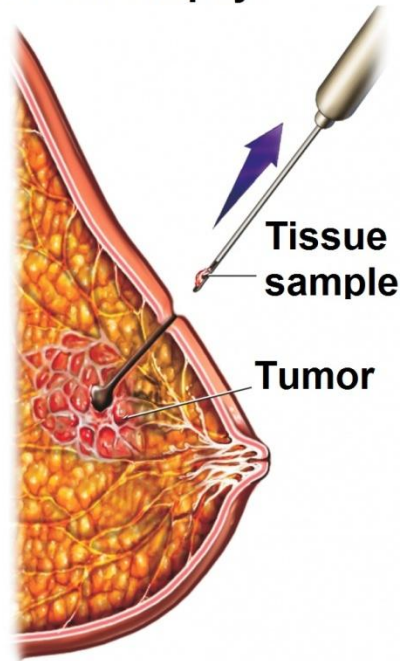
^qFNA and core (needle or vacuum-assisted) biopsy are both valuable. FNA requires cytologic expertise.

^yOther histologies that may require additional tissue: mucin-producing lesions, potential phyllodes tumor, papillary lesions, radial scar or other histologies of concern to pathologist.

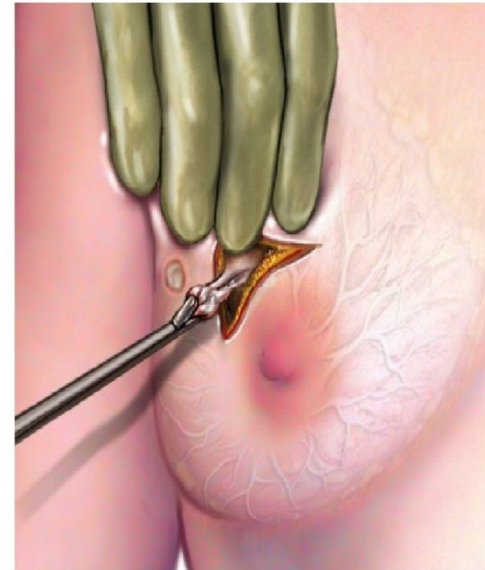
**Note: All recommendations are category 2A unless otherwise indicated.
Clinical Trials: NCCN believes that the best management of any cancer patient is in a clinical trial. Participation in clinical trials is especially encouraged.**

Biopsy Techniques

Needle biopsy



Excisional biopsy



Needle Biopsy

Fewer trips to the operating room

Can sample multiple abnormal areas

Excisional Biopsy

Inadequate or indeterminate needle biopsy

Additional tissue needed for pathology review

Needle Biopsies

- FNA: Smaller-bore needle, minimally invasive, low cost, but requires specialized pathologist and may need second core biopsy
- Core Needle Biopsy: Large-bore cutting needle removes 3-5 cores. Can obtain large enough tissue samples for diagnosis. Can place clip to guide further treatment
- Image guided core needle biopsy: Uses ultrasound or mammography to guide sampling

NCCN Database: Rates of Needle vs Excisional Biopsy

Initial Biopsy	N	%
FNA	2	0%
Needle-Non Image Guided	40	5%
Needle-Image Guided	567	77%
Surgical-Non Image Guided	64	9%
Surgery-Image Guided	64	9%

Clinical Stage 0

Diagnosed January—December 2010

>90 days follow-up

Community and Academic Centers' rates are similar



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