www.bhgi.info



Women's Cancers in the English Caribbean: BREAST CANCER SERVICES AND RESOURCES NEEDED FOR IMPROVED OUTCOMES

Benjamin O. Anderson, M.D.

Chair and Director Breast Health Global Initiative Fred Hutchinson Cancer Research Center

Professor of Surgery & Global Health Medicine University of Washington

Seattle, Washington



The Breast Health Global Initiative

www.bhgi.info



www.BCI25.org



BREAST CANCER RESOURCES

Global Breast Cancer Trends

>Adapting to Existing Resources

Prioritization in Cancer Control



BREAST CANCER RESOURCES

Global Breast Cancer Trends

Adapting to Existing Resources

Prioritization in Cancer Control



<u>GLOBAL CANCER TRENDS (IARC)</u> HUMAN DEVELOPMENT INDEX (2008-2030)

	Men			Women			Scenario-based prediction for 2030*
	Medium HDI	High HDI	Very high HDI	Medium HDI	High HDI	Very high HDI	-
Stomach	-2.7%	-2.6%	-2.8%	-1·9%	-2.5%	-2.5%	2·5% annual decrease in all HDI areas per year
Cervix uteri				-1.8%	-1.2%	-2.6%	2% annual decrease in all HDI areas per year
Lung	-1·5%	-1.3%	-1.6%	-0.5%	0.5%	1.8%	1% annual decrease in high HDI and very high HDI areas (men) 1% annual increase in high HDI and very high HDI areas (women)
Liver	0.1%	0.2%	2.5%	-0.4%	0.4%	2.1%	Difficult to generalise, assume no change
Colorectum	1.5%	2.8%	0.6%	1.5%	1.8%	0.3%	1% annual increase in all HDI areas per year
Breast				2.1%	2.6%	1.6%	2% annual increase in all HDI areas per year
Prostate	3.2%	7.0%	4.4%				3% annual increase in all HDI areas per year

- <u>12.7 million</u> cases in 2008 predicted to rise to <u>22.2 million</u> by 2030
- Reductions in <u>infection-related cancers</u> are offset by increases in cancers associated with <u>reproductive</u>, <u>dietary and hormonal factors</u>

Bray, et al, Lancet Oncol 13:790, 2012



<u>GLOBAL BREAST CANCER BURDEN</u> INCIDENCE AND MORTALITY: 2015-2024

Most common cancer among women

- ✤ 19.7 million cases in next decade
- ✤ 10.6 million cases in less developed countries
- ✤ By 2020, over 1 million cases per year in LMCs

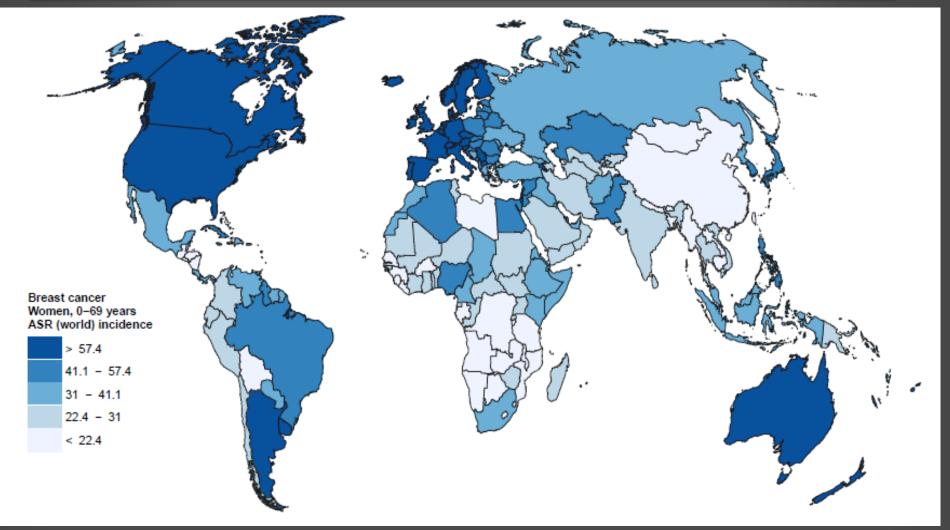
Most common cancer killer among women

- ✤ 5.8 million women will die in next decade
- ✤ 3.9 million deaths in less developed countries
- ✤ >1.5 million deaths premature and preventable

SOURCE: Globocan 2012 (IARC)



BREAST CANCER GLOBAL INCIDENCE

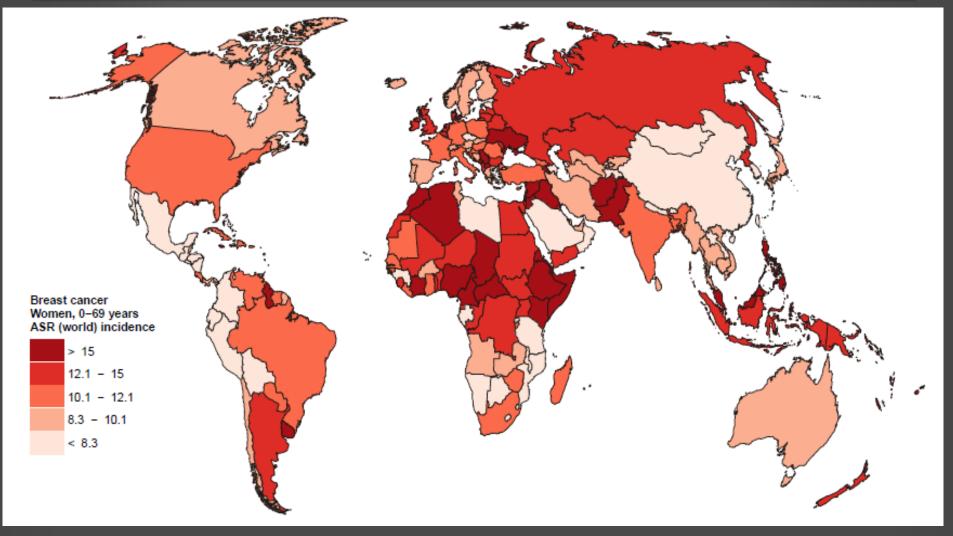


SOURCE: Globocan 2012 (IARC)



www.bhgi.info

BREAST CANCER GLOBAL MORTALITY



SOURCE: Globocan 2012 (IARC)



BREAST CANCER RESOURCES

Global Breast Cancer Trends

Adapting to Existing Resources

Prioritization in Cancer Control



BREAST CANCER RESOURCES

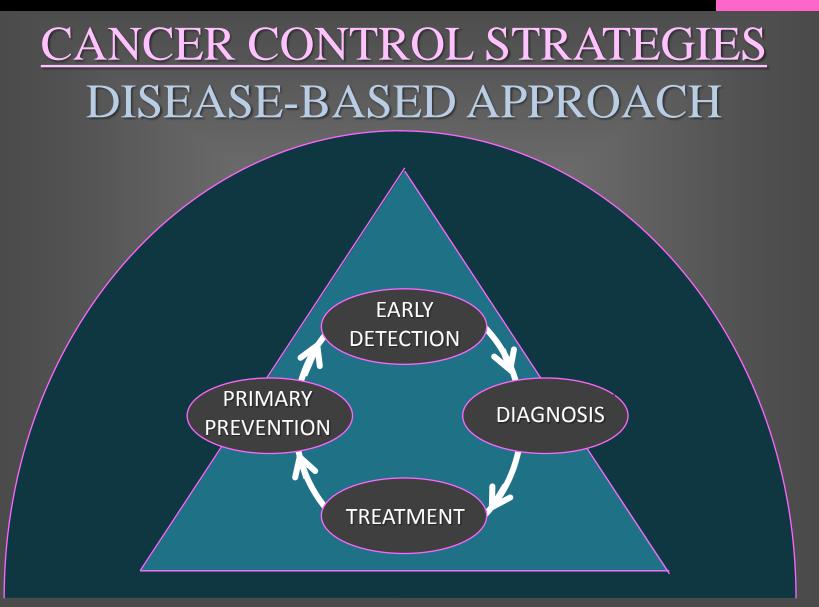
Global Breast Cancer Trends

>Adapting to Existing Resources

Prioritization in Cancer Control









CANCER CONTROL STRATEGIES PRIMARY PREVENTION

Population-Attributable Fraction (PAF) reflects potential prevention impact

Etiology	Carcinogenic risk factor (associated PAF)	Overall PAF (%)	Risk reduction programs	Key multisectoral partners	Estimated cost-effectiveness
Infectious etiologies	HPV (cervical cancer 90–100%)* Hepatitis B and C (HCC 77%)* <i>H. pylori</i> (gastric cancer 75%)*	18	Vaccinations	Health care workers Pharmaceutical companies Legislative bodies	Very cost-effective
Behavioral factors	Tobacco (30%)† Obesity (20%)† Diet (5%)† Alcohol (4%)†	66	Tobacco cessation Exercise programs Public education and outreach	General population (health literacy) Legislative bodies Health care workers	Very cost-effective
Environmental factors	Air pollution Aflatoxins	4	Environmental regulations	Legislative bodies Business sector	Potentially cost- effective
Clinical interventions	Chemoprevention (such as tamoxifen, aspirin, celecoxib, or finasteride) Surgical procedures (such as prophylactic mastectomy or prophylactic oophorectomy)	N/A	Insurance coverage for correctly selected individuals at elevated risk	Health care workers Pharmaceutical companies General population	Cost-effective

2 Ilbawi, Science Trans Med, 7:278cm1, 2015



CANCER CONTROL STRATEGIES BREAST CANCER PREVENTION

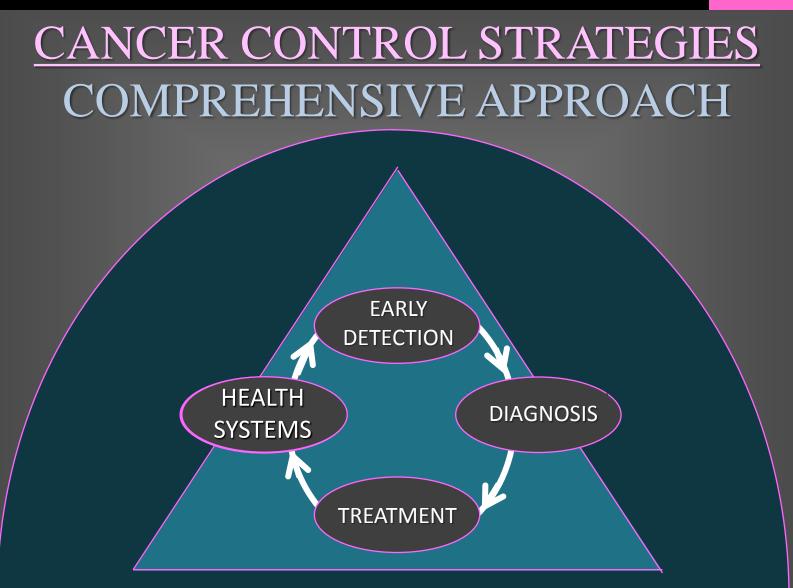
Health behaviors associated with reduced breast cancer risk

- 1. Prolonged lactation
- 2. Regular physical activity
- 3. Weight control
- 4. Avoid excess alcohol intake
- 5. Avoid prolonged use of exogenous hormones
- 6. Avoid excessive radiation exposure

McTiernan, et al, <u>Cancer</u>, 113:2325, 2008









BHGI GUIDELINE DEVELOPMENT

- Comprehensive guidelines by selected expert panels
- Consensus opinions based on evidence review
- Publication of a) consensus and b) individual manuscripts

GUIDELINE DEVELOPMENT SUMMITS: Global Summit 2002: <u>Health Care Disparities</u> Global Summit 2005: <u>Resource Stratification</u>

GUIDELINE VALIDATION SUMMITS: Global Summit 2007: <u>Guideline Implementation</u> Global Summit 2010: <u>Healthcare Delivery</u>

Global Summit 2012: Supportive Care and QOL



<u>GLOBAL SUMMIT 2005 – BETHESDA</u> RESOURCE STRATIFICATION

- Basic level: <u>Core resources</u> or fundamental services necessary for any breast health care system to function.
- Limited level: <u>Second-tier resources</u> or services that produce major improvements in outcome such as survival.
- Enhanced level: <u>Third-tier resources</u> or services that are optional but important, because they increase the number and quality of therapeutic options and patient choice.
- Maximal level: <u>Highest-level resources</u> or services used in some high resource countries that have *lower priority* on the basis of extreme cost and/or impracticality.

The Breast Health Global Initiative

BHGI GUIDLINE TABLES

HEALTH CARE SYSTEMS

Level of resources	Patient and Family Education	Human Resource Capacity Building	Patient Navigation	Cancer Care Facility	Breast Care Center
Basic	General education regarding primary prevention of cancer, early detection and self examination Development of culturally adapted patient and family education services	Primary care provider education re breast cancer detection, diagnosis and treatment Nursing education re cancer patient management and emotional support Pathology technician education re tissue handing and specimen preparation Trained community worker	Field nurse, midwife or healthcare provider triages palients to central facility for diagnosis and treatment	Health facility Operating facility Outpatient care facility Pharmacy Home hospice support External consultation pathology laboratory	Breast healthcare access integrated into existing healthcare infrastructure
Limited	Group or one-on-one counseling involving family and peer support Education regarding nutrition and complementary therapies	Nursing education re breast cancer diagnosis, treatment and pt management Imaging technician education re imaging technique and quality control Volunteer recruitment corp to support care	On site patient navigator (staff member or nurse) faoilitates patient triage through diagnosis and treatment	Clinical information systems Health system network Imaging Solity Internal pathology laboratory Radiation therapy	"Breast Center" with clinician, staff and breast imaging access Breast prostheses for mastectomy pts
Enhanced	Education regarding survivorship Lymphederna education Education regarding home care	Organization of national volunteer network Specialized nursing oncology training Home care nursing Physiotherapist & lymphedema therapist On-site cytopathologist	Patient navigation team from each discipline supports patient "handbd" during key transitions from specialist to becalist to ensure completion of therapy	Centralized reterral cancer center(s) Radiation therapy, low energy linear accelerator, electrons, brachytherapy, treatment planning system	Mutidisopinary breast programs Oncology runse specialists Physician assistants
Maximal		Organization of national medical breast health groups		Satelite (non-centralized or regional) cancer centers	

EARLY DETECTION

Level of resources	Public Education and Awareness	Detection Methods
Basic	Development of culturally sensitive, Inguistically appropriate local education programs for target populations to teach value of early detection, breast cancer risk factors and breast health awareness (education + self-examination)	Clinical history and CBE
Limited	Culturally and linguistically appropriate targeted outreachieducation encouraging CBE for age groups at higher risk administered at district/provincial level using heathcare providers in the field	Diagnostic breast US +/- diagnostic mammography in women with positive CBE Mammographic screening of target group'
Enhanced	Regional awareness programs regarding breast health linked to general health and women's health programs	Mammographic screening every 2 years in women ages 50-96° Consider mammographic screening every 12-18 months in women ages 40-49°
Maximal	National awareness campaigns regarding breast health using media	Consider annual mammographic screening in women ages 40 and older Other imaging technologies as appropriate for high-risk groups†

DIAGNOSIS

	vel of ources	Clinical	Imaging and Lab Tests	Pathology
в	asic	History Physical examination Clinical breast examination (CBE) Tissue sampling for cancer diagnosis (sylotogic or histopic) prior to initiation of treatment		Pathody risgness obtained for every lease takes to yan panilable sampling procedure approteite dignosis and progressis predictive information to include tumor size, tymph node stats, histologi Process to establish homone receptor status possibly including empiric assessment of response to therapy? Determination and reporting of TMM stage
Lir	nited	US-guided FNAB of sonographically suspicious aritlary nodes Sentinel lymph node (SLIV) biopsy with blue dye‡	Diagnostic breast ultrasound (US) Plain chest and skeletal radiography Liver US Blood chemistry profile* Complete blood count (CBC)*	Determination of ER status by IHC† Determination of margin status, DCIS content, presence of LVI Frozen section or touch prep SLN analysis §
Enh	anced	Image guided breast sampling Preoperative needle localization under mammo andlor US guidance SLN biopsy using radiotracer‡	Diagnostic mammography Specimen radiography Bone scan, CT scan Cardiac function monitoring	Measurement of HER-2ineu overexpression or gene amplification§ Determination of PR status by IHC
Ma	ximal		PET scan. MBI scan, breast MRI, BRCA1/2 testing Mammographic double reading	I+C staining of sentinel nodes for cytokeratin to detect micrometastases Pathology double reading Gene profiling tests

STAGE I

	Local-Region	al Treatment	Syster	nic Treatment (Adj	uvant)
Level of resources	Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Biological Therapy
Basic	Modified radical mastectomy			Oophorectomy in premenopausal women Tamoxifen*	
Limited	Breast conserving surgery† Sentinel lymph node (SLN) biopsy with blue dye‡		Classical CMF§ AC, EC, or FAC§		
Enhanced	SLN biopsy using radiotracer‡ Breast reconstruction surgery	Breast- conserving whole-breast irradiation as part of breast- conserving therapy†	Taxanes	Aromatase inhibitors LH-RH agonists	Trastuzumab for treating HER-2/ neu positive diseasel
Maximal			Growth factors Dose-dense chemotherapy		

STAGE II

Local-Region	nal Treatment	System	nic Treatment (Adj	uvant)		Level of	Local-Region	nal Treatment	Syste	nic Treatment (Ad	iuvant)
Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Biological Therapy		resources	Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Biological Therapy
Modified radical mastectomy			Oophorectomy in premenopausal women Tamoxifen*			Basic	Modified radical mastectomy	x	Classical CMF† AC, EC, or FAC†	Oophorectomy in premenopausal women Tamoxifen‡	
Breast conserving surgery† Sentinel lymph node (SLN) biopsy with blue dye‡		Classical CMF§ AC, EC, or FAC§		ı		Limited	Breast conserving surgery§ Sentinel lymph node (SLN) biopsy with blue dyel	Postmastectomy irradiation of chest wall and regional nodes for high-risk cases"			١
SLN biopsy using radiotracer‡ Breast reconstruction surgery	Breast- conserving whole-breast irradiation as part of breast- conserving therapy†	Taxanes	Aromatase inhibitors LH-RH agonists	Trastuzumab for treating HER-2/ neu positive diseasel		Enhanced	SLN biopsy using radiotracer† Breast reconstruction surgery	Breast- conserving whole-breast irradiation as part of breast- conserving therapy§	Taxanes	Aromatase inhibitors LH-RH agonists	Trastuzumab fo treating HER-2/ neu positive disease ¹
		Growth factors Dose-dense chemotherapy				Maximal			Growth factors Dose-dense chemotherapy		
Сс	an	се	r: '	11(3 (8	SU	op	I),	20	80

LOCALLY ADVANCED

Level of	Local-Regio	nal Treatment	Systemic Trea	tment (Adjuvant o	r Neoadjuvant)
resources	Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Biological Therapy
Basic	Modified radical mastectomy	¥	Preoperative chemotherapy with AC, EC, FAC or CMF†	Oophorectomy in premenopausal women Tamoxifen‡	
Limited		Postmastectomy irradiation of chest wall and regional nodes*			ş
Enhanced	Breast- conserving surgery Breast reconstruction surgery	Breast- conserving whole-breast irradiation as part of breast- conserving therapy	Taxanes	Aromatase inhibitors LH-RH agonists	Trastuzumab for treating HER-2/ neu positive disease§
Maximal			Growth factors Dose-dense chemotherapy		

METASTATIC

Level of	Local-Region	nal Treatment	Syster	nic Treatment (Pal	liative)
resources	Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Supportive Therapy
Basic	Total mastectomy for ipsilateral breast tumor recurrence after breast conserving surgery"			Oophorectomy in premenopausal women Tamoxifen†	Nonopioid and opioid analgesics and symptom management
Limited		Palliative radiation therapy	Classical CMF‡ Anthracycline monotherapy or in combination‡		
Enhanced			Sequential single agent or combination chemotherapy Trastuzumab Lapatinib	Aromatase inhibitors	Bisphosphonates
Maximal			Bevacizumab	Fulvestrant	Growth factors



TREATMENT – LOCALLY ADVANCED

Level of	Local-Regior	nal Treatment	Systemic	Treatment (Adjuvant or Neo	oadjuvant)
resources	Surgery	Radiation Therapy	Chemotherapy	Endocrine Therapy	Biological Therapy
Basic	Modified radical mastectomy	•	Preoperative chemotherapy with AC, EC, FAC or CMF ⁺	Oophorectomy in premenopausal women Tamoxifen [‡]	
Limited		Postmastectomy irradiation of chest wall and regional nodes*			5
Enhanced	Breast-conserving surgery Breast reconstruction surgery	Breast-conserving whole- breast irradiation as part of breast-conserving therapy	Taxanes	Aromatase inhibitors LH-RH agonists	Trastuzumab for treating HER-2/neu positive disease [§]
Maximal	Cancer: 113	(8 suppl), 2008	Growth factors Dose-dense chemotherapy		



NCCN Framework for Resource Stratification of NCCN Guidelines (NCCN Framework™)

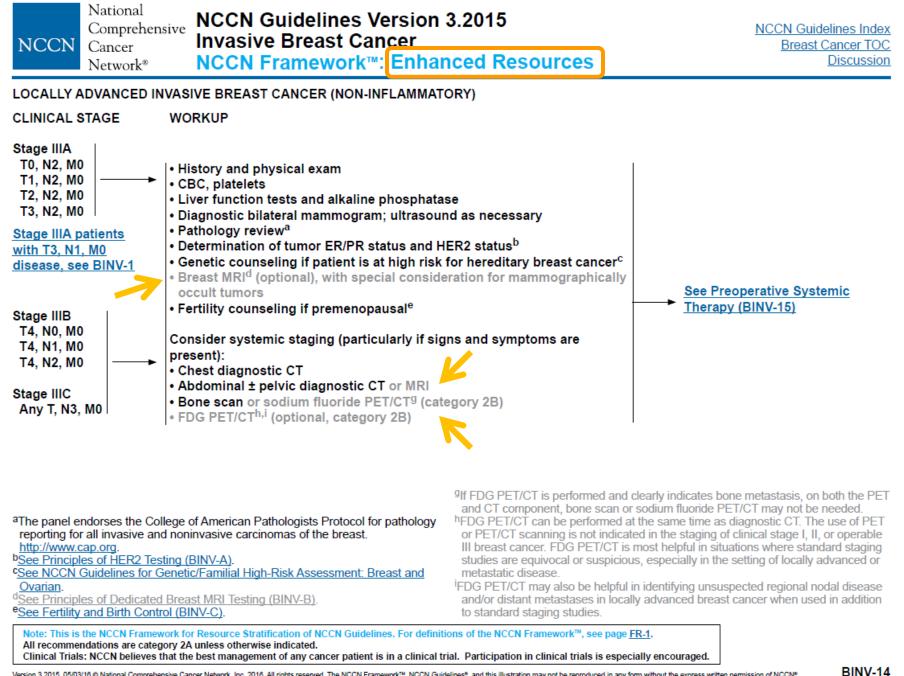
Invasive Breast Cancer Enhanced Resources

Version 3.2015 NCCN.org

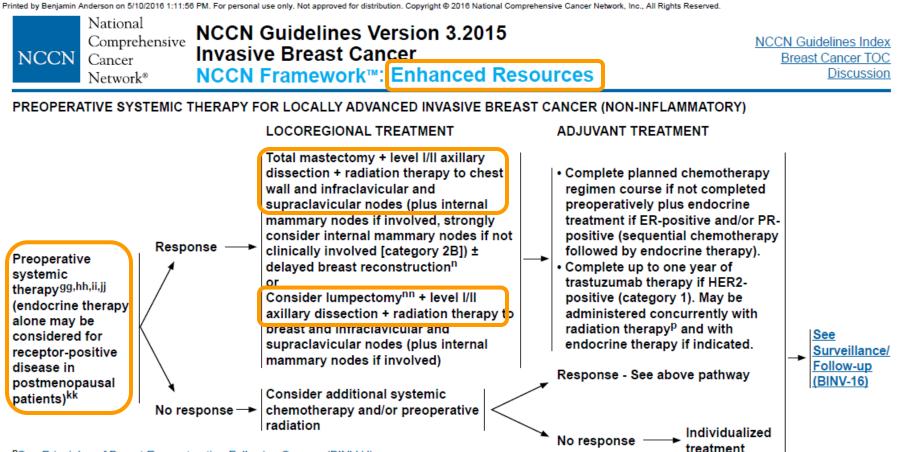


Continue

Printed by Benjamin Anderson on 5/10/2016 1:11:56 PM. For personal use only. Not approved for distribution. Copyright © 2016 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Version 3.2015, 05/03/16 @ National Comprehensive Cancer Network, Inc. 2016, All rights reserved. The NCCN Framework[™], NCCN Guidelines®, and this illustration may not be reproduced in any form without the express written permission of



ⁿSee Principles of Breast Reconstruction Following Surgery (BINV-H).
^pSee Principles of Radiation Therapy (BINV-I).

⁹⁹A number of chemotherapy regimens have activity in the preoperative setting. In general, those chemotherapy regimens recommended in the adjuvant setting may be considered in the preoperative setting. <u>See Neoadjuvant/Adjuvant Chemotherapy (BINV-K)</u>. If treated with endocrine therapy, an aromatase inhibitor is preferred for postmenopausal women.

^{hh}Patients with HER2-positive tumors should be treated with preoperative systemic incorporating trastuzumab for at least 9 weeks of preoperative therapy <u>See Neoadjuvant/Adjuvant Chemotherapy (BINV-K)</u>.

ⁱⁱA pertuzumab-containing regimen may be administered preoperatively to patients with greater than or equal to T2 or greater than or equal to N1, HER2-positive breast ______ cancer.

¹Admistration of all chemotherapy prior to surgery is preferred.

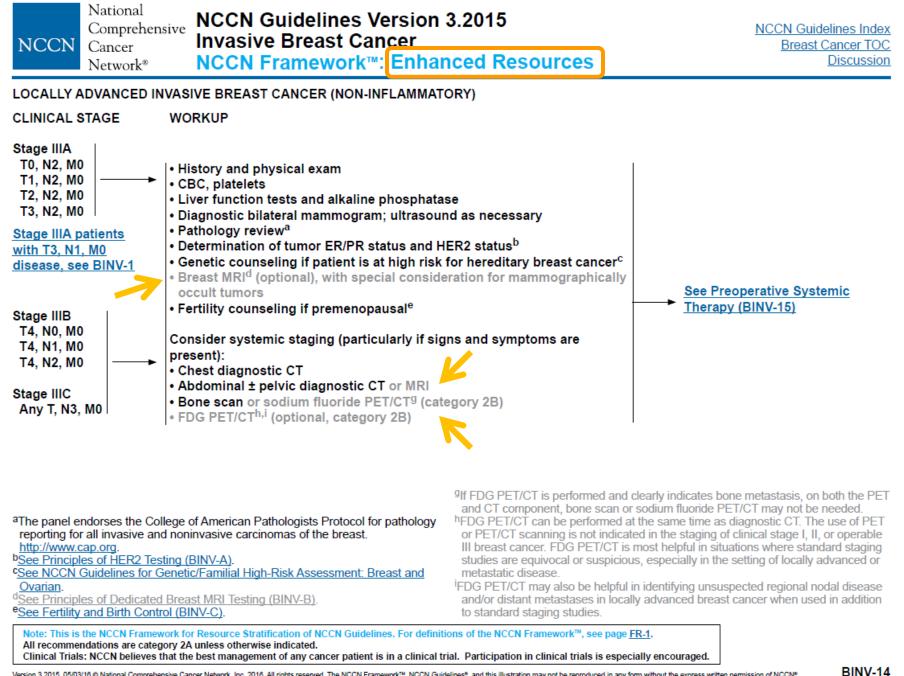
kkSee Definition of Menopause (BINV-L).

ⁿⁿFor patients with skin and/or chest wall involvement (T4 non-inflammatory) prior to neoadjuvant therapy, breast conservation may be performed in carefully selected patients based on a multidisciplinary assessment of local recurrence risk. In addition to standard contraindications to breast conservation (<u>see BINV-G</u>), exclusion criteria for breast conservation include: inflammatory (T4d) disease before neoadjuvant therapy and incomplete resolution of skin involvement after neoadjuvant therapy.

Note: This is the NCCN Framework for Resource Stratification of NCCN Guidelines. For definitions of the NCCN Framework[™], see page <u>FR-1</u>. 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.

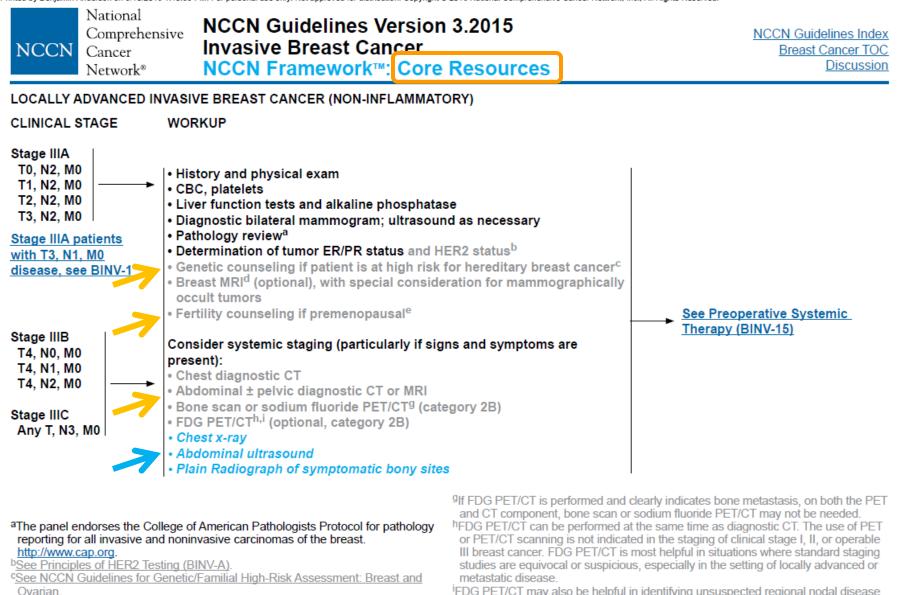
BINV-15

Printed by Benjamin Anderson on 5/10/2016 1:11:56 PM. For personal use only. Not approved for distribution. Copyright © 2016 National Comprehensive Cancer Network, Inc., All Rights Reserved.



Version 3.2015, 05/03/16 @ National Comprehensive Cancer Network, Inc. 2016, All rights reserved. The NCCN Framework[™], NCCN Guidelines®, and this illustration may not be reproduced in any form without the express written permission of

Printed by Benjamin Anderson on 5/10/2016 1:10:55 PM. For personal use only. Not approved for distribution. Copyright © 2016 National Comprehensive Cancer Network, Inc., All Rights Reserved.



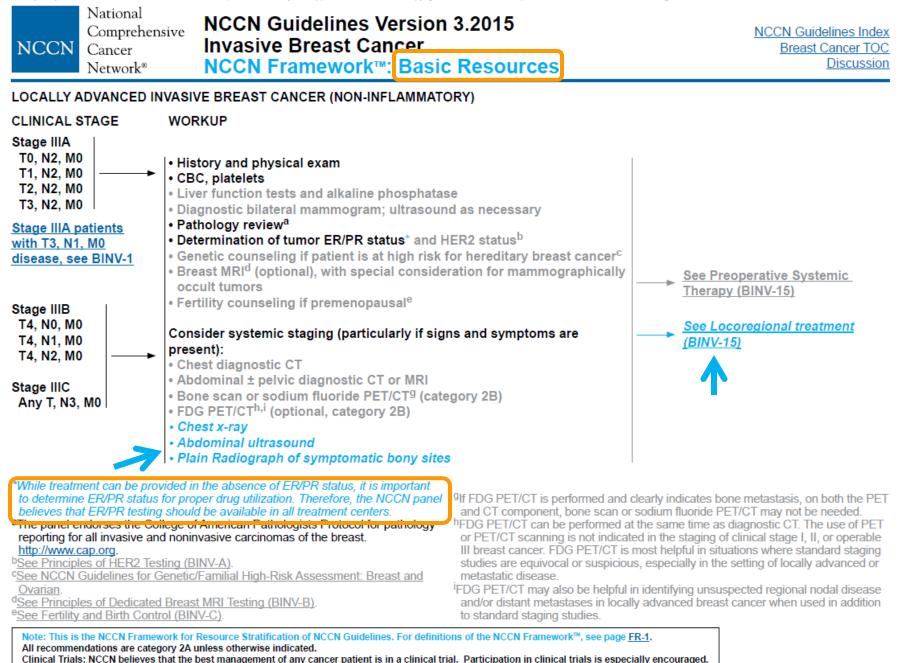
^dSee Principles of Dedicated Breast MRI Testing (BINV-B). ^eSee Fertility and Birth Control (BINV-C). ⁱFDG PET/CT may also be helpful in identifying unsuspected regional nodal disease and/or distant metastases in locally advanced breast cancer when used in addition to standard staging studies.

BINV-14

Note: This is the NCCN Framework for Resource Stratification of NCCN Guidelines. For definitions of the NCCN Framework[™], see page <u>FR-1</u>. 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.

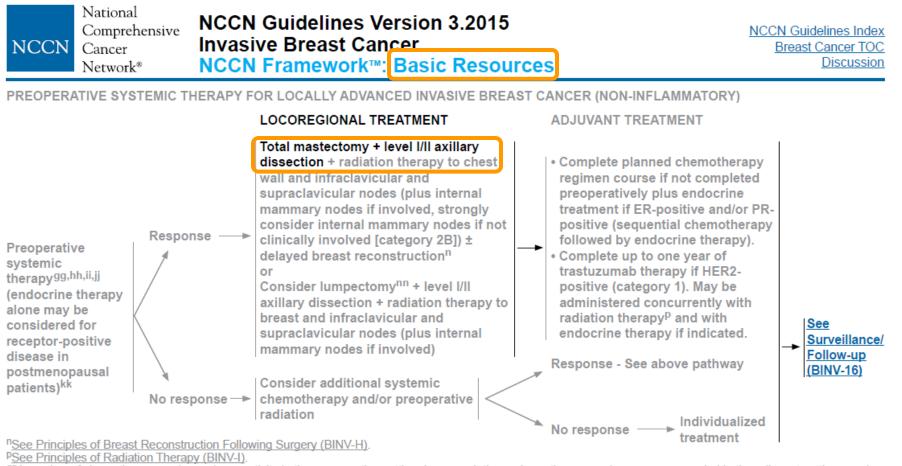
Version 3.2015, 05/03/16 @ National Comprehensive Cancer Network, Inc. 2016, All rights reserved. The NCCN FrameworkTM, NCCN Guidelines⁶, and this illustration may not be reproduced in any form without the express written permission of NCCN[®].

Printed by Benjamin Anderson on 5/10/2016 1:09:24 PM. For personal use only. Not approved for distribution. Copyright © 2016 National Comprehensive Cancer Network, Inc., All Rights Reserved.



BINV-14

Printed by Benjamin Anderson on 5/10/2016 1:09:24 PM. For personal use only. Not approved for distribution. Copyright © 2016 National Comprehensive Cancer Network, Inc., All Rights Reserved.



^{gg}A number of chemotherapy regimens have activity in the preoperative setting. In general, those chemotherapy regimens recommended in the adjuvant setting may be considered in the preoperative setting. <u>See Neoadjuvant/Adjuvant Chemotherapy (BINV-K)</u>. If treated with endocrine therapy, an aromatase inhibitor is preferred for postmenopausal women.

^{hh}Patients with HER2-positive tumors should be treated with preoperative systemic incorporating trastuzumab for at least 9 weeks of preoperative therapy <u>See Neoadjuvant/Adjuvant Chemotherapy (BINV-K)</u>.

ⁱⁱA pertuzumab-containing regimen may be administered preoperatively to patients with greater than or equal to T2 or greater than or equal to N1, HER2-positive breast ______ cancer.

¹Admistration of all chemotherapy prior to surgery is preferred.

kkSee Definition of Menopause (BINV-L).

ⁿⁿFor patients with skin and/or chest wall involvement (T4 non-inflammatory) prior to neoadjuvant therapy, breast conservation may be performed in carefully selected patients based on a multidisciplinary assessment of local recurrence risk. In addition to standard contraindications to breast conservation (<u>see BINV-G</u>), exclusion criteria for breast conservation include: inflammatory (T4d) disease before neoadjuvant therapy and incomplete resolution of skin involvement after neoadjuvant therapy.

Note: This is the NCCN Framework for Resource Stratification of NCCN Guidelines. For definitions of the NCCN Framework[™], see page <u>FR-1</u>. 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.

Version 3.2015, 05/03/16 @ National Comprehensive Cancer Network, Inc. 2016, All rights reserved. The NCCN Framework[™], NCCN Guidelines[®], and this illustration may not be reproduced in any form without the express written permission of NCCN[®].



BREAST CANCER RESOURCES

Global Breast Cancer Trends

>Adapting to Existing Resources

Prioritization in Cancer Control



BREAST CANCER RESOURCES

Global Breast Cancer Trends

Adapting to Existing Resources

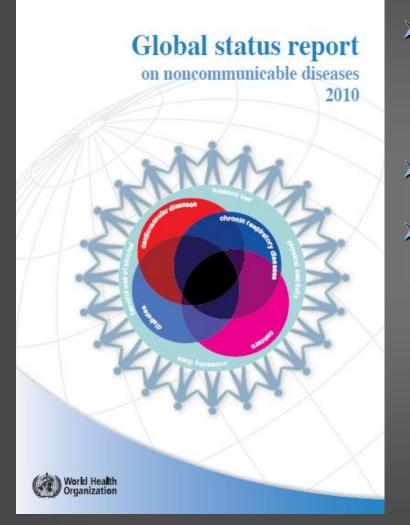
Prioritization in Cancer Control

BREAST CANCER EPIDEMIOLOGY Stage at Diagnosis: United States vs. India

STAGE	EXTENT	5 year SURVIVAL	DISTRI USA	BUTION INDIA	
0	Noninvasive	100%	16%		
I	Early stage disease	100%	40%	1%	90% DCIS or early staged invasive disease at
II	Early stage disease	86%	34%	23%	diagnosis
	Locally advanced	57%	6%	52%	INDIA: 76% locally advanced or
IV	Metastatic disease	20%	4%	24%	metastatic at diagnosis

Sources: SEER Survival Monograph (NCI), 2007; Chopra, Cancer Institute Chennai, 2001 © 2016 BHC





- Biennial mammographic screening (50–70 years) with breast cancer treatment are among "best buys"
- Could avert 19% of cancer burden
- BUT breast cancer interventions impractical for poorer countries:
 - implementation costs
 - Iimited feasibility of treatment in primary care setting in LMCs



BREAST CANCER INITIATIVE 2.5 Making breast health a global priority

BCI 2.5 is a global campaign to reduce disparities in breast cancer outcomes for 2.5 million women by 2025.

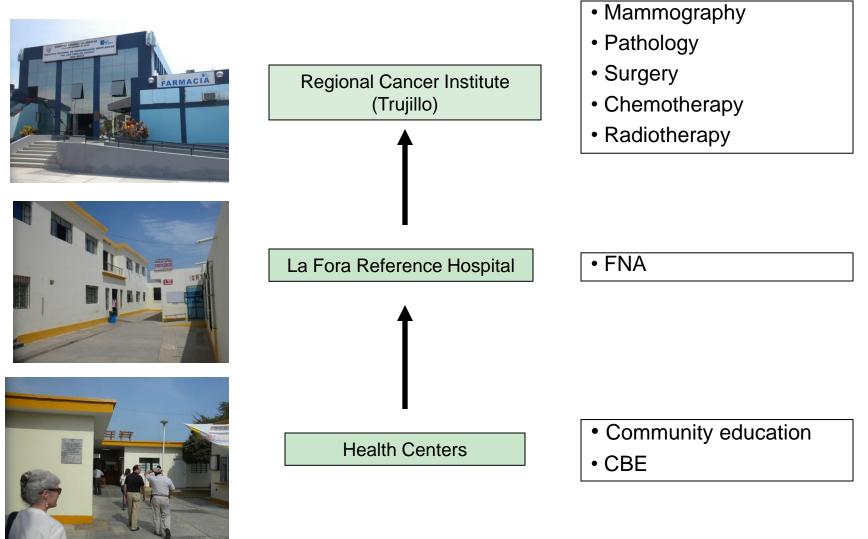


Breast Cancer Initiative 2.5 Inviting Partners

American Cancer Society Susan G. Komen for the Cure **Breast Health Global Initiative** Harvard Global Equity Initiative National Cancer Institute Center for Global Health Norwegian Cancer Society Pan American Health Organization (PAHO) Union for International Cancer Control (UICC)

Breast cancer care model





Photos courtesy of Ben Anderson

Slide used with permission from

Peru Site Visit 2012

CANCER DE HEHI

Public education about breast cancer and breast health

100

Tuberc

PLAN DE SUPERVISIÓN HOSPITAL REGIONAL DE LORETO

JUSTIFICACIÓNOBJETIVOSMETODOLOGÍARESULTADOSINFORME•Capacitación de proveedores clínicos (obstetrices y
médicos) en ECM.médicos (obstetrices y
médicos)médicos (obstetrices y
médicos)

•El 1 y 2 de julio de 2011, un grupo de médicos y enfermeras de INEN, IREN Norte y PATH, asistió a un curso conjunto en ECM y BAAF celebrado en IREN-Norte. Donde ocho obstetrices de la Red de Salud de Pacasmayo y tres médicos del Hospital La Fora recibieron la formación en teoría científica, aplicación práctica y orientación de pacientes con respecto al ECM.





Hinchazón, calor, oscurecimiento o enrojecimiento de la mama.



Cambio en el tamaño y/o forma de la mama.



Hoyuelos o arrugas en la piel.



Picazón, úlceras o llaga escamosa en la piel o sarpullido en el pezón.



Hundimiento del pezón o de otras partes de la mama.



Secreción repentina del pezón.



Dolor reciente y persistente en alguna parte de la mama.

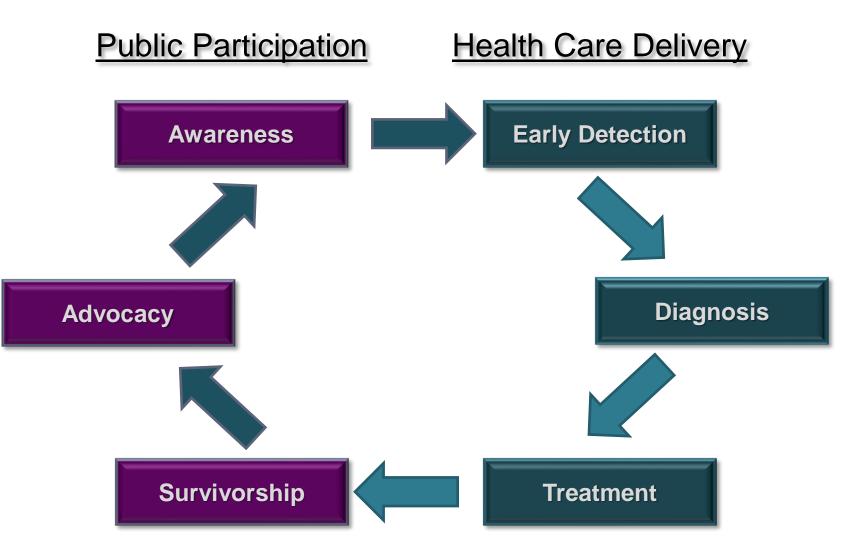


Aparición de alguna masa, bolita dura, o la piel más gruesa dentro de la mama.

		HIS	TORIA CLINIC	A DE SALUD MAN	CANCER DE MA MARIA	MA
DATOS GENERAL	ES					
Nombre del establecim	niento				N* His	ioria C
Primer A	obilido	Segundo Apell	ido	Nombres	Dh	
Direc	oción			Distrito	Telef	ana
				8003588		ACX2.5.3
Fecha de nacimiento	Edad (años	The second second second second second	Establecimient	o que refiere	Fecha	de oc
¿Has escuchado acero		and the second se		10270-2010-01200	6200092-0200092000	
	n una sesión educativ blecimiento de salud	va en el	Si, en una sesión en mi comunida		Si, a través del con individuel con el pr	
						_
ANAMNESIS				100000		
Motivo de consulta:	Por tamizaje	Pors	Antomas mamario	• 🗆	Por referencia	1
Sintomas						1
			D/W	1/A	Duración	
Partner the same size		10000	Constant of the second	ACCESS STATES		
Relación con ciclo mer	neeuac 51	NO	Peso:	Kg Talla:	mt.	
Edad menarquia:		Edad menopa		_		-
Uso de anticonceptivo Terapia de reemplaza Antecedentes person Historia personal de:	hormonal: SI ales y familiares: Cáncer de mama:		primer embarazo	Años Lactar	M / A	_
Terapia de reemplaza Antecedentes person	hormonal: SI	NO Edad	primer embarazo		ncia Matema: St	
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di	hormonal: SI	NO Edad	primer embarazo		Ctro cáncer	
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si	hormonal: SI ales y familiares: Cáncer de mama: irecto de: Cáncer d NO	NO Edad	primer embarazo		Ctro cáncer	
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si [EXAMEN CUNICO DI	hormonal: SI ales y familiares: Cáncer de mama: Irecte de: Cáncer d NO NO E MAMA:	NO Edad	Cáncer de ovar NO Cánce NO Cánce		Ctro cáncer	ær
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CLINICO DI GARACTERISTICAS DEL TU	hormonal: SI alles y familiares: Cáncer de mama: irecto de: Cáncer d NO NO E MAMA: irecto da Material	NO Edad	Cáncer de over NO Cáncer de over NO Céncer	e: SI NO	Otro cáncer NO Otro cánc	
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Sí EXAMEN CLINICO DE CARACTERISTICAS DEL TU Tumor patistie 1	hormonal: SI ales y familiares: Cáncer de mama: irecto de: Cáncer d NO NO E MAMA: ireato Tamor 1	NO Edad	primer embarazo Cáncer de over NO Cánce NO Cánce NO Cánce NO Cánce NO Cánce	Años Lactar	Ciro cáncer	ær
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CUNICO DI CARACTERISTICAS DEL TU Turnor patistric Consistencia del turnor Ibi	NO	NO Edad	Cáncer de ovar NO Cánce NO Cánce NO Cánce	e: SI NO	Otro cáncer NO Otro cánc	ar
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Sí [EXAMEN CLINICO DI GARACTERISTICAS DEL TU Turnor palpatre T Consistencia del turnor (b) pétros, fluctuarte)	hormonal: SI ales y familiares: Cáncer de mama: irecto de: Cáncer d NO NO E MAMA: ireato Tamor 1 smato Tamor 2 ando, dare,	NO Edad	primer embarazo Cáncer de over NO Cánce NO Cánce NO Cánce NO Cánce NO Cánce	e: SI NO	Otro cáncer NO Otro cánc	er_
Terapia de reemplaza Antecodentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CUNICO DI GARACTERISTICAS DEL TU Turnor patyatise Consistencis del turnor (b) petres, flactuante) Forma del turnor (redondo dismo/floc)	hormonat: SI ales y familiares: Cáncer de mama: Irecte de: Cáncer d NO MO	NO Edad	cáncer de ovar NO Cánce NO Cánce NO Cánce NO SI	e: SI NO	Otro cáncer NO Otro cánc	er_
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CUNICO DI CARACTERISTICAS DEL TU Turnor patjuble Turnor patjuble Turnor patjuble Tome del turnor (tri petres, fluctuarte) Forme del turnor (tripular, fluctuarte del turnor (tripular,	hormonal: SI ales y familiares: Cáncer de mama: Inecto de: Cáncer d NO NO E MAMA: Inecto Tamor 1 Inecto Tamor 2 Indo, dara, a. ovel, irregular)	NO Edad	Cáncer de ovar NO Cánce NO Cánce NO Cánce	e: SI NO	Otro cáncer NO Otro cánc	er_
Terapia de reemplaza Antecodentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CUNICO DI GARACTERISTICAS DEL TU Turnor patyatise Consistencis del turnor (b) petres, flactuante) Forma del turnor (redondo dismo/floc)	hormonal: SI ales y familiares: Câncer de mama: Inecto de: Câncer d NO E MAMA: Inecto famor 1 analo Tamor 2 ando, dara, a. evel, irregular)	NO Edad	cáncer de ovar NO Cánce NO Cánce NO Cánce NO SI	e: SI NO	Otro cáncer NO Otro cánc	er_
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Si EXAMEN CLINICO DI CARACTERISTICAS DEL TU Turnor patjuble Turnor patjuble Turnor patjuble Turnor patjuble Turnor patjuble Torme del turnor (regular, damórica) Bordes del turnor (regular, Ganglio (antar, supriscione) Berteción (per pentis (sobr Petracolo toredes, pref)	hormonal: SI ales y familiares: Câncer de mama: Inecto de: Câncer d NO E MAMA: Inecto famor 1 analo Tamor 2 ando, dara, a. evel, irregular)	NO Edad	cáncer de ovar NO Cánce NO Cánce NO Cánce NO SI	e: SI NO	Otro cáncer NO Otro cánc	er_
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Hábitos: Tabaco: Sí EXAMEN CUNICO DI CARACTERISTICAS DEL TU Turnor palualse T Consistencia del turnor (Integrado) Portes del turnor (Integrado) Beretide per pentin (nator Beretide per pentin (nator Retraccion per pentin (nator Retraccion per pentin (nator Retraccion pentin (nator) Retraccion p	hormonal: SI ales y familiares: Câncer de mama: Inecto de: Câncer d NO E MAMA: Inecto famor 1 analo Tamor 2 ando, dara, a. evel, irregular)	NO Edad	cáncer de ovar NO Cánce NO Cánce NO Cánce NO SI	e: SI NO	Otro cáncer NO Otro cánc	ær
Terapia de reemplaza Antecedentes person Historia personal de: Historia de familiar di Consistencia del fumor (nedonda dismorto) Remactos becedes perto	Nomonal: SI	NO Edad	cáncer de over NO Cánce NO Cánce NO Cánce NO SI SI SI SI SI	e: SI NO	Ctro cáncer NO Ctro cáncer NO Ctro cáncer 3 9	

Distancia del pezón ____cm. Distancia del pezón ____cm.





KNOWLEDGE SUMMARIES





KNOWLEDGE SUMMARIES

BCI25 Making breast cancer a global priority

KNOWLEDGE SUMMARY

EARLY DETECTION (2 OF 3): BREAST PHYSIOLOGY AND THE CLINICAL BREAST EXAM (CBE)

KNOWLEDGE SUMMARY EA



POINTS FOR POLICYMAKERS

PLANNING STEP 2: WHERE DO WE WANT TO BE?

IDENTIFY OBJECTIVES AND PRIORITIES

Identify community and health system partnerships

- Identify partners (non-government organizations, advocates, trusted public figures, medical associations) who can help develop and disseminate breast health awareness messaging.
- Identify key decision makers who can help develop and implement a curriculum for medical training and continuing medical education.

Define the target population and approach

- Educational efforts should include health professionals, women and the general public.
- Training primary care health professionals may be a priority if previous breast health training was not provided in medical schools.
- Health professionals may require continuing medical education or "refresher" training in breast cancer prevention, risk factors, signs and symptoms and clinical breast examination (CBE).
- Women can be routinely educated during clinic visits about breast health, including any available breast cancer screening opportunities.

Identify gaps and barriers

- Identify prevailing myths or misconceptions regarding the signs and symptoms of breast cancer. Consider conducting focus groups with the target population to better understand prevailing beliefs.
- Identify gaps in knowledge and misconceptions among primary care providers regarding their beliefs about breast cancer. Consider conducting interviews and focus groups with primary care providers.
- Identify structural, sociocultural, personal and financia barriers to patient participation in CBE.

- Identify barriers to provider participation in breast health awareness and CBE, with a focus on nonattendees within the target population.
- Identify barriers to implementing CBE curriculum in medical training and continuing medical education.

Set achievable objectives

- Objectives should promote a common goal for early detection: downstaging breast cancer diagnoses to improve cancer outcomes.
- Identify and classify objectives according to the healthcare sector that will manage them (e.g., health system standardization of CBE efforts should be led by clinicians, examiner training of CBE could be led by healthcare organizations, increasing the number of qualified practitioners could be led by sponsoring institutions, academia, and the public sector).
- Develop and disseminate patient and public education messages that are relevant and appropriate to the target community
- Integrate health professional education and training and standardized CBE protocols with widespread dissemination and demonstration of expert clinical breast healthcare skills.
- Address gaps in referral networks to ensure diagnostic follow-up for all breast health complaints (WHO Package of Essential Noncommunicable (PEN) disease interventions for primary care in low-resource settings referral model).
- Report and document clinical findings (contribute dat to cancer registry).
- Consider minimizing costs by adapting or supplementing existing programs (e.g., adding brea health education to medical school curriculum and continuing education provems).

Set priorities and determine feasibility of interventions

- Implement demonstration or pilot projects with measurable outcomes to assess feasibility
- Follow a resource-stratified pathway for program development that identifies available resources across the continuum of care.

HOW DO WE GET THERE?

Ensure clinical competency in breast health: Health systems

are responsible for the clinical competency of health care staff. Health systems should partner with medical education institutions to ensure that breast health is part of the standard medical curriculum, and that the curriculum for health professionals assigned to work with women at risk for breast cancer includes training in CBE and breast counseling (see Table 1)

Improve patient and community knowledge of and

confidence in breast healthcare: Breast awareness efforts can improve patient knowledge of breast cancer and the importance of seeking care immediately for a breast complaint. However, if patients do not have confidence that the healthcare system can provide them with timely and affordable care, they may delay presenting for evaluation. In some low-resource settings, there is a lack of trust in the health system and a lack of confidence in the possibility of being cured of cancer, which discourages patients from presenting for evaluation of a breast complaint. NGOS have been proven as effective partners to address these issues and help navigate women to such services or provide services directly.

Strengthen referral networks: Health systems are responsible for establishing and monitoring referral networks to ensure the best care available is provided equitably to all patients in need. The high volume of women with breast health complaints requires a coordinated referral system to ensure optimal use of resources and efficient care. Referral systems should document the nature and urgency of the referral. The capacity of different health systems to care for women with breast complaints varies; scaling up expertise and establishing minimal standards of care are two possible approaches to improving care.

Implement quality assurance programs: Improving

standards for CBE through training and tracking outcomes may improve the practice of CBE – an approach that has been used successfully with mammography. Increasing CBE volume and establishing trained teams or centers can improve the sensitivity and reduce the false positive rates of CBE. Effective communications between providers can improve the care within an interdisciplinary system. Communications must be thorough and bidirectional to help coordinate care. For example, regional guidelines regarding the timing, type and location of imaging studies for women with breast complaints should be established to avoid duplication of studies. Similarly, breast mass biopsy findings should be communicated back to the primary care physician to coordinate appropriate follow-up and surveillance.

POINTS FOR POLICYMAKERS

PLANNING STEP 3: HOW DO WE GET THER

IMPLEMENT AND EVALUATE

Establish financial support and partnership

- Consider partnering with local, regional and national breast health stakeholders.
- Advocacy groups are key stakeholders in advancing breast health awareness and are often supported by community members and volunteers.
- Partner with medical institutions to integrate training into existing programs.
- Scaling-up existing programs can optimize investments and efforts.

Launch, disseminate and implement

- Consider current educational programs that could be expanded or adapted to include breast health (e.g., training in clinical breast examination [CBE] should be part of the medical school core curriculum, offered as part of continuing education and available to all appropriate frontline health professionals).
- Expand the practice of CBE at the primary care level.
- Clarly the system for referrals and follow-up care to all health professionals and patients to avoid duplication of studies or ornisions in care (e.g., suspicious lesions must be referred to a surgical team for biopsy, followed by a pathology evaluation of the biopsied specimen).
- Consider using a standardized patient care plan that provides details of a patient's diagnosis and treatment that can be shared by all members of the healthcare team.

Monitor and evaluate

- Process metrics should address program components targeted for improvement or implementation (e.g., process metrics identified in Step 2 can be routinely evaluated and updated).
- Evaluate health professional competency in CBE, breast health counseling and timely referrals (e.g., health professional self-assessment tools can be used to assess the sensitivity and specificity of CBE and inform program planning).
- Quality control measures should be in place (e.g., data that capture false-negative findings and delays in time to definitive care can inform future program improvements).



BCI25 Making breast cancer a global priority

2. INSTITUTION: GENERAL

TO BE COMPLETED BY ALL RESPONDENTS.

2.1 What best describes your facility (please select <u>only one</u> option O Primary care facility - provides primary health care to patients who come to the facility concern. The services provided at the primary care facility do not have distinct special	 o Not addressed: These services are not provided in my institution o Partially developed: These services are not provided in my institution but does not meet demand/needs o Well established: All the required services or activities are available and reach most of the target population 				
O Provincial or Secondary-level hospital - highly differentiated by function with five to to obstetrics-gynecology, pediatrics and general surgery.	(You must p	provide a value for	each response below)		
O Tertiary-level hospital - highly specialized staff and technical equipment. Clinical servi have teaching activities.	Descet succession of summtanetic upmen	Not addressed	Partially developed	Well established	Don't knov
	Breast cancer screening of asymptomatic women * must provide value	0	0	0	0
O Cancer care/breast care facility- specialized in cancer or breast cancer diagnosis and	Breast imaging for screening (i.e. mammogram, ultrasound) * must provide value	0	0	0	0
O Outpatient clinic/Imaging center - detection and diagnosis of breast cancer.	Breast imaging for diagnosis * must provide value	0	0	0	0
	Pathology * must provide value	0	0	0	0
Palliative care facility - provides medical care that focuses on reducing the severity of progression of the disease itself. The goal is to prevent and relieve suffering and to im	Breast surgery * must provide value	0	0	0	0
	Radiation therapy for symptom control (i.e., bone metastases) * must provide value	0	0	0	0
2.2. What best describes the funding status of your facility?	Chemotherapy * must provide value	0	0	0	0
O Public - Government funded	Endocrine therapy (e.g., tamoxifen, aromatase inhibitors) must provide value	0	0	0	0
O Private (for profit) - No government funding	Biological therapy (e.g. trastuzumab) * must provide value	0	0	0	0
	Multidisciplinary care	0	0	0	0
O Mixed - government and private funding	Psychosocial support for cancer patients and family members (individual or group) * must provide value	0	0	0	0
O Not-for-profit	Palliative care/pain management * must provide value	0	0	0	0
O Mission/faith-based	Rehabilitation of cancer patients *must provide value	0	0	0	0
O Foreign aid	Follow-up of cancer patients * must provide value	0	0	0	0
	Medical record keeping * must provide value	0	0	0	0
O Other (specify):	Cancer registry * must provide value	0	0	0	0
	Physician training in breast health care * must provide value	0	0	0	0
2.3. Please rank in order of importance the primary source of paym more than one answer, please rank your answers in the order of fre.,	Patient education/outreach	0	0	0	0



BREAST CANCER RESOURCES

SUMMARY

- Breast cancer is the most common cancer among women and the most likely reason a woman will die from cancer.
- Resource-stratified guidelines provide a framework for prioritizing early detection, diagnosis and treatment strategies.
- Successful health systems integrate survivors and advocates to promote cancer down-staging and timely treatment.
- BCI2.5 has created educational and assessment tools that facilitate baseline assessments and determine next steps for program-building based on a resource-stratified framework.



The Breast Health Global Initiative

www.bhgi.info



www.BCI25.org