UNIFIED BREAST CANCER SCREENING GUIDELINES for Northern Nevada

Nevada Cancer Control Summit September 16, 2019

> Karin L. Klove, M.D., F.A.C.S. Clinical Professor of Surgery UNR School of Medicine

No Financial Disclosures

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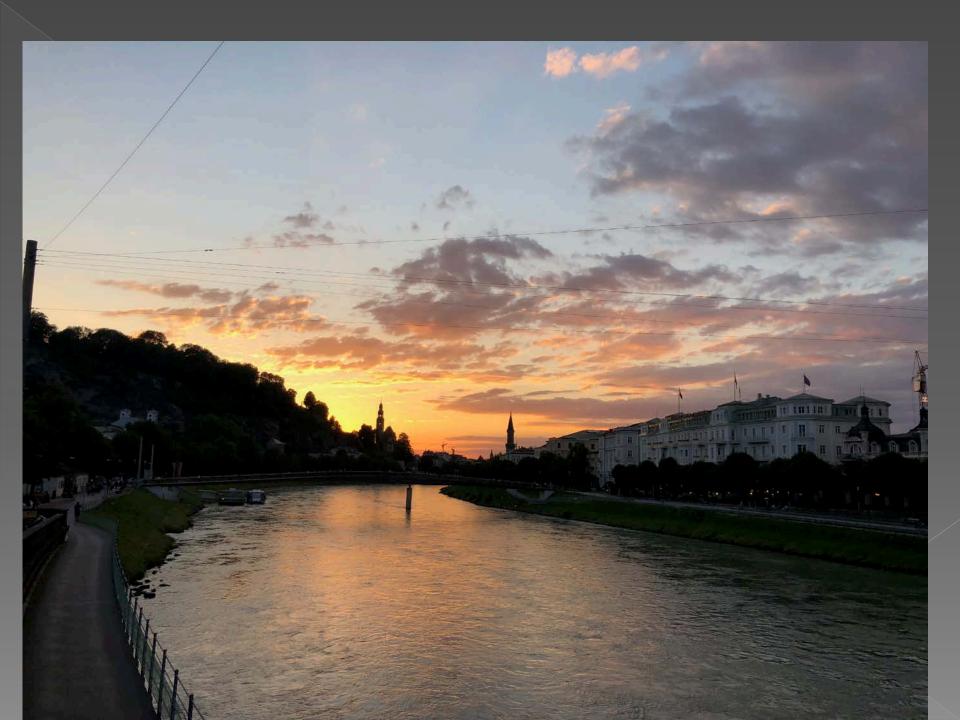
Nevada Cancer Control Summit September 16, 2019

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Objectives

- Define Breast Cancer Screening
- Examine breast cancer trends, statistics, and death rates, and impact of screenings
- Discuss benefits and risks of screening
- Discuss American Society of Breast Surgeons Screening Guidelines
- NCC Collaborative efforts





Checking for disease when there are no symptoms." --NCI

https://www.cancer.gov/publications/dictionaries/cancer-terms/def/screening

Screening

 "The presumptive identification of unrecognized disease in an apparently healthy, asymptomatic population, by means of tests, examinations or other procedures that can be applied rapidly and easily to the target population." --WHO

> -Systematic follow-up of abnormal -Participation of >70% target population -Necessary infrastructure for treatment of findings -Robust monitoring/framework to ensure quality care

https://www.who.int/cancer/prevention/diagnosis-screening/screening/en/

Goal of Screening is Early Detection & Saving Lives

Survival improvement

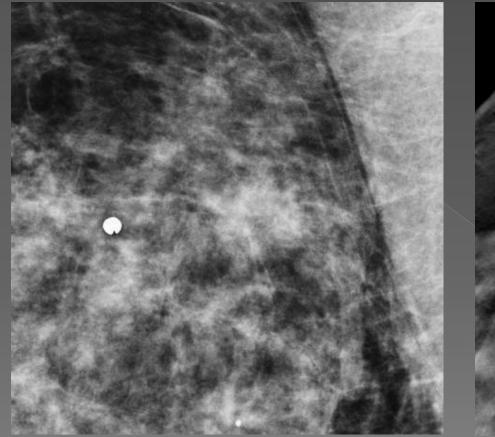
Staging should be lower

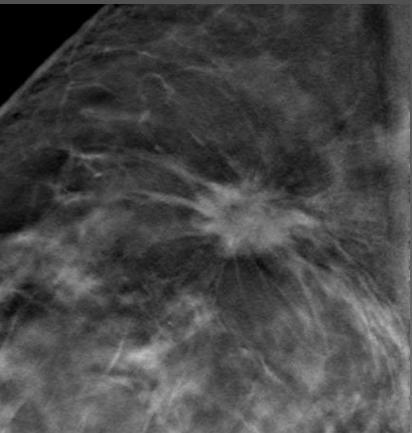
Less extensive treatment

Screening does not prevent cancer

Components of Breast Cancer Screening

Breast Self-awareness Olinical Breast Examination Screening Mammography > 2D > 3D, tomosynthesis Supplemental imaging Whole Breast Ultrasound Magnetic Resonance Imaging (MRI) • Periodic Risk Assessment





3D

Courtesy Hologic, Ind

2D

Breast Cancer Screening Risks

• False positive tests

- Additional imaging
- > Additional costs, including absence from work
- Anxiety secondary to call back and biopsy personal and subjective
- Possible complications of benign biopsy
 - Pain
 - Hematoma
 - Healing concerns, scarring
- > (Peace of mind)
- False negative tests
 - False reassurance
 - > Possible delay in diagnosis

Pain/discomfort from the exam



Checking for disease when there are no symptoms." --NCI

https://www.cancer.gov/publications/dictionaries/cancer-terms/def/screening

Asymptomatic?

Average Risk

- No breast lumps or thickening
- > No nipple or skin changes
- > No abnormal nipple discharge
- > No adenopathy

Higher Risk

- Dense breast tissue
- Personal or Familial Hx Breast Cancer
- Genetic Mutation
- Prior Thoracic Radiation

Which guideline??

	BREAST CANCER SCREENING RECOMMENDATIONS 2019						
	Asymptomatic Women						
Subset	American Society of Breast Surgeons (ASBrS)	American College of Radiology (ACR)	American Cancer Society (ACS)	National Comprehen sive Cancer	US Preventive Services Task Force	American College of Obstetricians and	
				Network (NCCN)	(USPSTF)	Gynecologists (ACOG)	
	May 2019	Feb 2018	Oct 2017	May 2019	Aug 2019	Sept 2017	
20-40	No imaging, if average risk;	No imaging,	No imaging, average risk	CBE, q1-	No imaging, if	Offer CBE q1-3yr;	
	begin formal risk assessment	average risk;		3yr;	average risk	average risk	
	@25	formal risk		Breast			
10.11	to a state the second state of the	assessment by 30		Awareness	61	0.00	
40-44	Annual, periodic update risk	Annual	Shared decision	CBE q1 yr,	Shared decision	Offer CBEq1yr;	
	assessment			Annual mammo		offer imaging w/ counseling q1yr	
45-50	Annual, periodic update risk	Annual	Annual	CBE q1 yr,	Shared decision	Offer CBE g1yr;	
45-50	assessment	Annual	Annual	Annual	shared decision	offer imaging q yr	
	assessment			mammo		oner magnig q yr	
51-55	Annual, periodic update risk	Annual	Annual	CBE q1 yr,	Biennial, 50	Offer CBE q1yr;	
51 55	assessment			Annual	Dictinitity, 50	Annual or	
				mammo		biennial mammo	
56-75	Annual, periodic update risk	Annual	1-2 yrs	CBE q1 yr,	Biennial	Offer CBE a1vr;	
	assessment		,	Annual		Annual or	
				mammo		biennial mammo	
>75	Annual, until age expectancy	Shared decision,	1-2 yrs, until age	CBE q1 yr,	Insufficient	Offer CBE q1yr;	
	<10yrs	Annual	expectancy <10 yrs	Annual	evidence	Shared decision	
				mammo		mammo	
High risk	Annual, consider supplemental	Annual, consider	Annual; Consider MRI	Annual,	Shared decision	Not addressed	
15%	imaging, alternating 6 months	supplemental		consider			
	apart	imaging, 6mos		MRI			
High risk 20+%	Add Annual MRI rec, begin age 35; alternating 6 months	Annual, with MRI, alternating 6 mos	Add Annual MRI, @age 30	Add Annual MRI	Shared decision	Not addressed	
Comments	3D mammography is preferred	ACR considers	Breast awareness is	Breast	Insufficient	Self breast	
	modality; MRI is favored	proven screening	recommended. SBE & CBE	awareness	evidence re: 3D	awareness is	
	supplemental imaging modality;	benefits to greatly	are not evidence-based;	all pts;	mammo & dense	recommended at	
	If prior breast cancer: annual	outweigh the risk	Insufficient evidence re:	Consider	breasts; excludes	all ages, with	
	mammo; add MRI for CA patients	for overdiagnosis;	dense breasts and pt with	risk	pts w/signs,	reporting of	
	if dense breasts or <50 at	Add MRI if dense	prolif. disease or prior	reduction	symptoms, BCA,	change to	
	diagnosis.	breasts & cancer,	breast cancer. High risk	strategies	LCIS, DCIS, known	physician.	
	If genetic risk or prior chest	or personal breast	includes BRCA1/2, prior	for high	genetic mutation,	Age>75 decision-	
	irradiation: begin MRI at 25 and	cancer <50.	chest XRT, genetic	risk pts;	prior chest XRT;	making depends	
	mammo at 30	Consider MRI for	syndromes (Li-Fraumeni, Cowden, Bannayan-Riley-	consider 3D	Risk assess ONLY	on health status	
	If risk >20%: annual mammo	personal history	Ruvalcaba}	mammo	if personal BCA,	and estimated	
	and access to MRI option	atypia or cancer	,		Fam Hx, BRCA1/2	longevity	

Nevada Collaboration: Unifying Screening Guidelines



Nevada Cancer Coalition

 Coalition: A group of people/groups who have joined together for a common purpose

Non-profit organization; Founded in 2002

Beliefs

- > The Power of Collaboration & Partnership
- > The Integrity of Science & Research
- The Essential right for Quality in Every Life

6 Goals

 #6 Improve coordination & collaboration between cancer control efforts

https://nevadacancercoalition.org/about

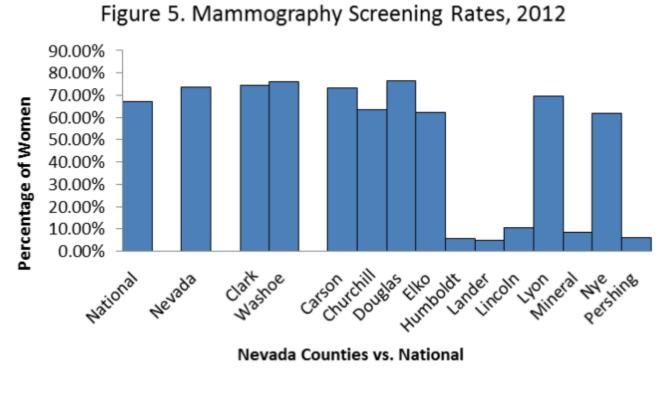
NCC Collaborative study on NV Breast Cancer Screening, 2014

Improving Mammography Screening in the State of Nevada: Barriers and Solutions

Charlotte J. Drumm, MPH(c) MPH Professional Paper School of Community Health Sciences University of Nevada, Reno

https://nevadacancercoalition.org/sites/default/files/BreastCancerScreeningReport_January2014.pdf

Discrepancy among NV counties in screening rates



Nevada State Health Division, 2013

https://nevadacancercoalition.org/sites/default/files/BreastCancerScreeningReport_January2014.pdf

Conclusions about Barriers

- Rural Nevada: Greatest barrier is a "lack of education and knowledge"
 - Improve understanding of the benefits of screening and early detection
 - Improve knowledge of frequency of screening
 - Improve understanding of the safety of screening

https://nevadacancercoalition.org/sites/default/files/BreastCa ncerScreeningReport_January2014.pdf

NCC Independent Research Study, 2016

NEVADA BREAST CANCER SCREENING ASSESSMENT REPORT

Developing a better understanding of provider approaches and practices specific to breast cancer screening and early detection.

June 2016



https://nevadacancercoalition.org/sites/default/files/WHC_BC-Screening-Assessment-Report_June2016_Final.pdf

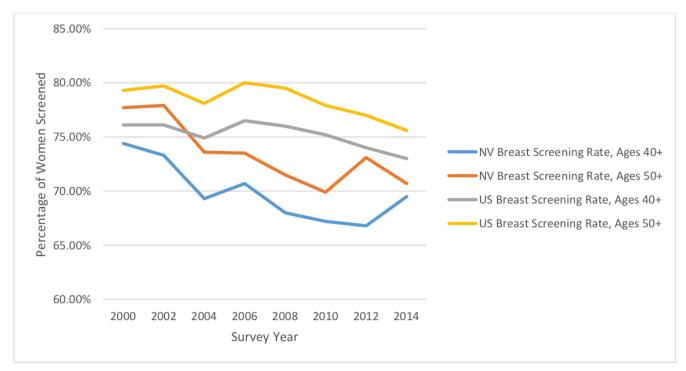
NV Breast Cancer Screening Report 2016

Contacted NV primary practitioners who order mammography with inquiries:

- Initial age for screening
- Interval of screening
- Comfort level discussing imaging tools
- Confidence discussing screening topics
 - Risk assessment
 - Dense breast tissue
 - Genetic counseling and BRCA mutation

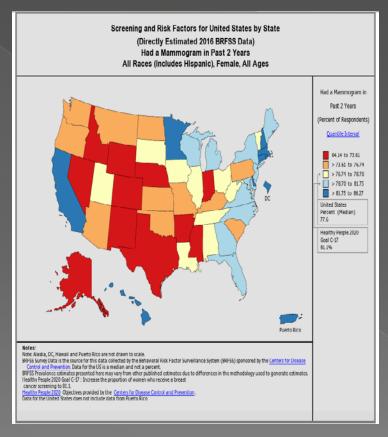
NV and USA screening rates 2000-2014

Figure 2: Women Who Have Had a Mammogram Within the Past Two Years, 2000 - 2014, Nevada vs. United States



Data Source: Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Population Health. BRFSS Prevalence & Trends Data [online]. 2016. Rates are at 95 percent confidence interval for percent.

NIH State Cancer Profiles Mammography within 2 years

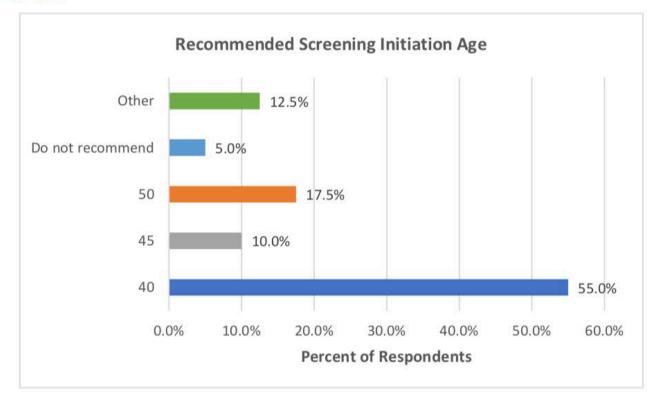


Age 40+ : 67% Age 50+ : 73% (USA median: 77%)

https://statecancerprofiles.cancer.gov/risk/index.php?topic=women&risk=v06&race=00&datatype=0&type=risk & sortVariableName=default&sortOrder=default#results

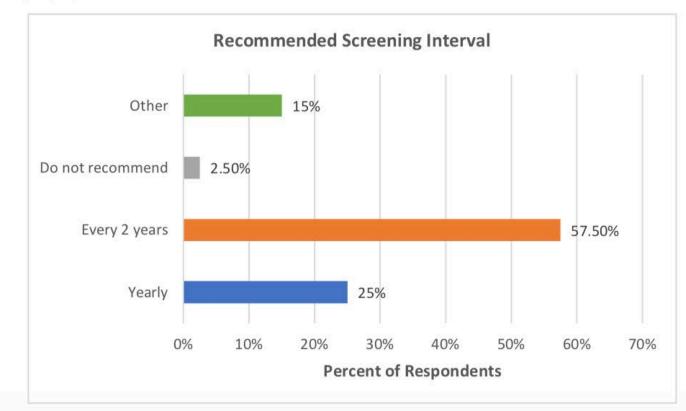
Nevada Practitioners: Age recommendations to begin screening

Figure 5: At what age do you recommend average risk patients begin screening for breast cancer via mammography?



Establish Understanding of Current Practices in NV

Figure 6: At what interval do you recommend average risk patients screen for breast cancer via mammography?



https://nevadacancercoalition.org/sites/default/files/WHC_BC-Screening-Assessment-Report_June2016_Final.pdf Nevada Breast Cancer Statistics 2019

 Estimated 2190 new diagnoses of female breast cancer this year (2019)

Mortality approx 400 (2019)

Screening mammography rate 67%
 National average 72.4%

http://dpbh.nv.gov/Programs/NCCR/Nevada_Central_Cancer_Registry_(NCCR)_-Home/

Northern Nevada Breast Cancer Collaborative

- A group of healthcare providers, radiologists, breast surgeons, and breast cancer advocates
 - Voluntary effort
 - Working together to implement consistent recommendations and strategies
 - > Project ECHO Dr. Eric Kraemer
- Goals of the Collaborative
 - > To improve regional breast cancer screening rates
 - > To decrease late-stage breast cancer diagnosis
 - To improve time from diagnosis to treatment

https://nevadacancercoalition.org/northern-nevada-breast-cancer-collaborative

Why unify the guidelines for practitioners and patients?

What evidence exists to embrace a set of guidelines?

Constantly changing!!

	BREAST CANCER SCREENING RECOMMENDATIONS 2019						
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	May 2019	Feb 2018	Oct 2017	May 2019	Aug 2019	Sept 2017	
20-40	No imaging, if average risk; begin formal risk assessment @25	No imaging, average risk; formal risk assessment by 30	No imaging, average risk	CBE, q1- 3yr; Breast Awareness	No imaging, if average risk	Offer CBE q1-3yr; average risk	
40-44	Annual, periodic update risk assessment	Annual	Shared decision	CBE q1 yr, Annual mammo	Shared decision	Offer CBEq1yr; offer imaging w/ counseling q1yr	
45-50	Annual, periodic update risk assessment	Annual	Annual	CBE q1 yr, Annual mammo	Shared decision	Offer CBE q1yr; offer imaging q yr	
51-55	Annual, periodic update risk assessment	Annual	Annual	CBE q1 yr, Annual mammo	Biennial, 50	Offer CBE q1yr; Annual or biennial mammo	
56-75	Annual, periodic update risk assessment	Annual	1-2 yrs	CBE q1 yr, Annual mammo	Biennial	Offer CBE q1yr; Annual or biennial mammo	
>75	Annual, until age expectancy <10yrs	Shared decision, Annual	1-2 yrs, until age expectancy <10 yrs	CBE q1 yr, Annual mammo	Insufficient evidence	Offer CBE q1yr; Shared decision mammo	
High risk 15%	Annual, consider supplemental imaging, alternating 6 months apart	Annual, consider supplemental imaging, 6mos	Annual; Consider MRI	Annual, consider MRI	Shared decision	Not addressed	
High risk 20+%	Add Annual MRI rec, begin age 35; alternating 6 months	Annual, with MRI, alternating 6 mos	Add Annual MRI, @age 30	Add Annual MRI	Shared decision	Not addressed	
Comments	3D mammography is preferred modality; MRI is favored supplemental imaging modality; If prior breast cancer: annual mammo; add MRI for CA patients if dense breasts or <50 at diagnosis. If genetic risk or prior chest irradiation: begin MRI at 25 and mammo at 30 If risk >20%: annual mammo and access to MRI option	ACR considers proven screening benefits to greatly outweigh the risk for overdiagnosis; Add MRI if dense breasts & cancer, or personal breast cancer <50. Consider MRI for personal history atypia or cancer	Breast awareness is recommended. SBE & CBE are not evidence-based; Insufficient evidence re: dense breasts and pt with prolif. disease or prior breast cancer. High risk includes BRCA1/2, prior chest XRT, genetic syndromes (Li-Fraumeni, Cowden, Bannayan-Riley- Ruvalcaba)	Breast awareness all pts; Consider risk reduction strategies for high risk pts; consider 3D mammo	Insufficient evidence re: 3D mammo & dense breasts; excludes pts w/signs, symptoms, BCA, LCIS, DCIS, known genetic mutation, prior chest XRT; Risk assess ONLY if personal BCA, Fam Hx, BRCA1/2	Self breast awareness is recommended at all ages, with reporting of change to physician. Age>75 decision- making depends on health status and estimated longevity	

Breast Surgeons

Position Statement on Screening Mammography

ASBrS Breast Cancer Screening Guidelines Recommendations

- 1. Women age >25 should undergo formal risk assessment for breast cancer
- 2. Women with an average risk of breast cancer should initiate yearly screening mammography at age 40
- **3.** Women with a higher-than-average risk of breast cancer should undergo yearly screening mammography and be offered yearly supplemental imaging; this screening should be initiated at a risk-based age
- 4. Screening mammography should cease when life expectancy is <10 years

Table 1 - Summary of ASBrS Recommendations for Breast Cancer Screening*

Women with average risk	 Women with non-dense breasts (A and B density)[^] 	Annual mammography (3D preferred modality) starting at age 40, no need for supplemental imaging		
	 Women with increased breast density (C and D density)[^] 	Annual mammography (3D preferred modality), starting at age 40, and consider supplemental imaging		
Women with higher-than- average risk	 Hereditary susceptibility from pathogenic mutation carrier status Prior chest wall radiation age 10-30 	Annual MRI starting at age 25 Annual mammography (3D preferred modality) starting at age 30		
	 Predicted lifetime risk >20% by any model Strong family history 	Annual mammography (3D preferred modality) and access to supplemental imaging (MRI preferred modality) starting at age 35 when recommended by their physician		
Women with prior history of breast cancer age ≥50 with non-dense breasts#		Annual mammography (3D preferred modality)		
Women with prior history of breast cancer at age <50, or with dense breasts#		Annual mammography (3D preferred modality) as access to annual supplemental imaging (MRI preferred modality) when recommended by their physician		

*All women to undergo risk assessment at age 25-30 and updated at appropriate intervals

Class A or 1 density = fatty; Class B or 2 density = scattered fibroglandular density; Class C or 3 density = heterogeneously dense; Class D or 4 density = extremely dense

#Women with prior breast cancer who did not undergo bilateral mastectomy

May 2019

ASBrS: 4 Basic Guidelines

Breast Surgeons - Official Statement -

Position Statement on Screening Mammography

ASBrS Breast Cancer Screening Guidelines Recommendations

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- 4. Screening mammography should cease when life expectancy is <10 years

Unified Screening Recommendations



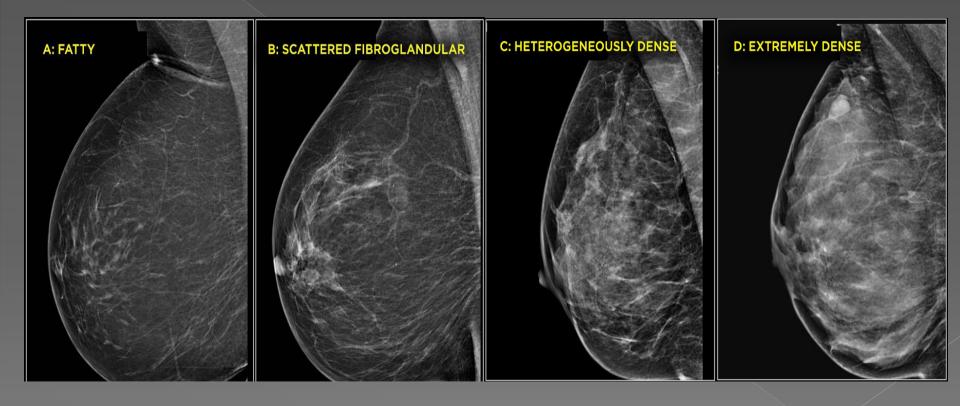
- Women age >25 should undergo formal <u>risk assessment</u> for breast cancer
- Women with an average risk of breast cancer should initiate yearly screening mammography at age 40
- Women with a higher-than-average risk of breast cancer should undergo yearly <u>screening mammography and be</u> <u>offered yearly supplemental imaging</u>; this screening should be initiated at a <u>risk-based age</u>
- Screening mammography should cease when <u>life</u> <u>expectancy is <10 years</u>

https://www.breastsurgeons.org/docs/statements/Position-Statementon-Screening-Mammography.pdf

Screening: Risk Stratified

Women with average risk	 Women with non-dense breasts (A and B density)[^] 	Annual mammography (3D preferred modality) starting at age 40, no need for supplemental imaging		
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Breast Density Categories



10%

40%

40%

10%

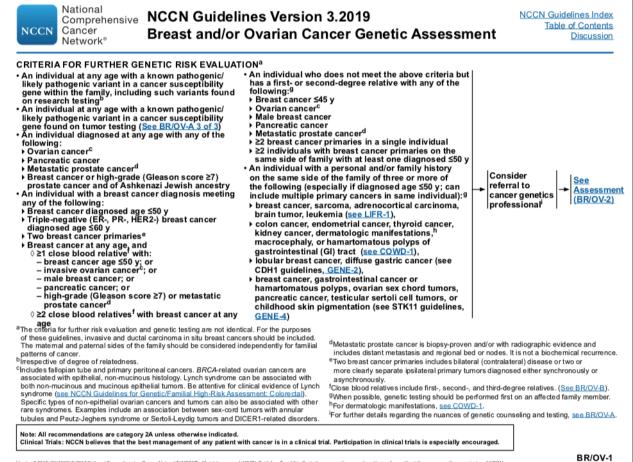
Courtesy Hologic, Ind

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Women with higher-than- average risk	 Hereditary susceptibility from pathogenic mutation carrier status Prior chest wall radiation age 10-30 	Annual MRI starting at age 25 Annual mammography (3D preferred modality) starting at age 30		
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Screening: After a Breast Cancer Diagnosis

Women with prior history of breast cancer age ≥50 with non-dense breasts#	Annual mammography (3D preferred modality)
Women with prior history of breast cancer at age <50, or with dense breasts#	Annual mammography (3D preferred modality) and access to annual supplemental imaging (MRI preferred modality) when recommended by their physician



Version 3 2019. 01/18/19 © 2019 National Comprehensive Cancer Network® (NCCN[®]). All rights reserved, NCCN Guidelines[®] and this illustration may not be reproduced in any form without the express written permission of NCCN

- Known/likely pathogenic variant within family
- Already diagnosed with cancer of ovary, pancreas, met. prostate, breast, highgrade prostate
- Ashkenazi Jewish ancestry
- Breast cancer =<50 y/o</p>
- Triple Neg Breast cancer =<60 y/o</p>
- Two breast cancer primaries

Breast cancer any age AND:

- >=1 close blood relative with
 - Breast Cancer=<50
 - Invasive ovarian cancer
 - Male breast cancer
 - Pancreatic cancer
 - High-grade or metastatic prostate cancer
- >=2 close blood relatives with breast cancer any age

- An individual with 1^{st-} or 2nd-degree relative with any of the following:
 - > Breast cancer <=45 y/o</p>
 - Ovarian cancer
 - Male breast cancer
 - > Pancreatic cancer
 - Metastatic pancreatic cancer
 - > >=2 breast cancers in single individual
 - >=2 relatives (same side of family) with breast CA and one diagnosed <=50</p>

- Personal or family history (same side) of 3 or more of the following:
 - Breast cancer, sarcoma, adrenocortical carcinoma, brain tumor, leukemia
 - Colon cancer, endometrial cancer, thyroid cancer, kidney cancer, dermatologic manifestations, macrocephaly, hamartomatous polyps of GI tract
 - > Lobular breast CA, diffuse gastric cancer
 - Breast cancer, GI Cancer, Hamartomatous polyps, ovarian sex chord tumors, childhood skin pigmentation (STK11)

Risk Assessment: Tyrer-Cuzick Model

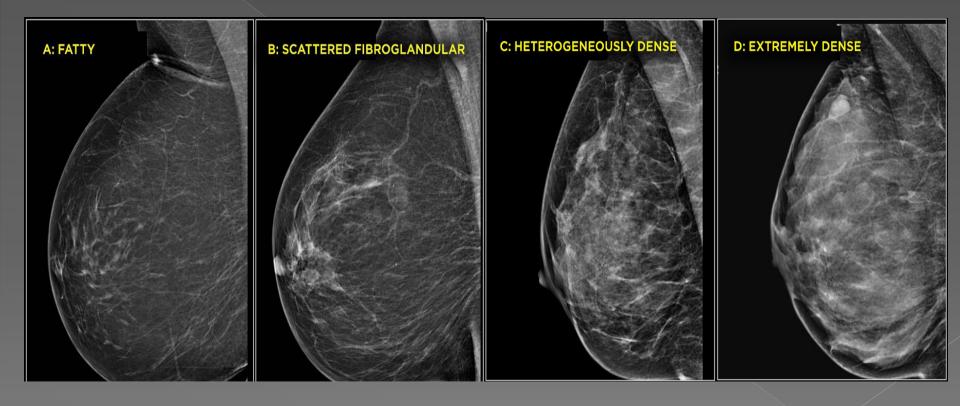
 Risk model assumes presence of a hereditary gene, other than BRCA1/2

Considers breast density in risk model

 Was developed by scientists at the Wolfson Institute of Preventive Medicine, Queen Mary University of London

https://ibis.ikonopedia.com

Breast Density Categories



10%

40%

40%

10%

Courtesy Hologic, Ind

Tyrer-Cuzick Risk Assessment: 10-year & lifetime risk

Current age

- Age of menarche
- Height & weight
- Breast Density
- Age of 1st childbirth
- Age of menopause
- Hormone Therapy
- Prior Breast Biopsy
- Ovarian Cancer
- 1* relatives with ovarian/breast CA
- Ashkenazi descent

Risk Assessment & Genetic Counseling

- Detailed assessment including medical, psychosocial, and family history
- Determination of risk of cancer and/or indication for genetic testing, based upon evidence
- Education/counseling about hereditary risks
- Genetic testing options, when appropriate
- Establishment of a cancer risk management plan
- Discussion of follow-up plans, referrals, etc.

https://www.cancer.gov/about-cancer/causes-prevention/genetics/risk-assessment-pdq#_157

Risk Assessment & Genetic Counseling

Psychosocial assessment:

- > Motivations for seeking cancer risk assessment
- > Beliefs about the causes of cancer
- Experiences with cancer and the related feelings, perceptions, concerns, fears
- The influence of perceptions and experiences on screening practices
- Cultural, religious, and socioeconomic background
- General psychological history
- Coping mechanisms
- Support systems

Gratitude

Acknowledgment: Many Groups in Collaboration

Physicians

- > Radiologists
- > Breast Surgeons
- > Pathologists
- Geneticists/Perinatologists
- Medical Oncologists
- Radiation Oncologists
- > OB/GYN surgeons
- Primary Care physicians

Breast Centers in Nevada with NAPBC Accreditation

Saint Mary's Regional Medical Center
Renown Regional Medical Center
Sunrise Hospital and Medical Center

Cancer Centers in Nevada with CoC Accreditation

Carson Tahoe Health
Renown Regional Medical Center
Saint Mary's Regional Medical Center
Sunrise Hospital and Medical Center
University Medical Center

Other Regional CoC Accredited Cancer Centers

- Tahoe Forest Cancer Center, Truckee
- Sierra Nevada Memorial Hospital, Grass Valley
- Sutter Auburn Faith Hospital, Auburn
- Rideout Memorial Hospital, Marysville
- Marshall Medical Center, Placerville

Nevada Cancer Registrars Association

- Cancer registrars (CTR) are vital to our knowledge of cancer control
 - > Abstract records
 - Monitor tumor boards for updated information
 - Conduct long-term follow-up of patients
 - > Provide essential data to assist with
 - monitoring patient status
 - research trials
 - prevention and screening
 - national and regional statistics & trends

Nevada Central Cancer Registry

Collects and compiles data across the state

- Hospital and physician reporting
- Death certificates
- Pathology Lab reports
- > Eliminates duplications
- Reports to National Organizations
 - Centers for Disease Control & Prevention (CDC)
 - National Program of Cancer Registries (NPCR)
 - North American Association of Central Cancer Registries (NAACCR)

Nevada Health Centers Mammovan, serving all of the women throughout Nevada



https://www.nevadahealthcenters.org/mammography/ https://www.nevadahealthcenters.org/mammography/mammovan/

Mammovan



Alexis DeJoria Racing Aliante Casino + Hotel + Spa Barrick Breast Cancer Research and Support Fund Breast Cancer Assistance Fund CVS Health Dermody Properties Foundation Engelstad Family Foundation Enterprise Holdings Foundation E.L. Cord Foundation Kalitta Motorsports Friends Fight Together GreaterGood.org Live Rude Girls National Breast Cancer Foundation, Inc.

Nevada State Health Division Patron Spirits Company Prevent Cancer Foundation Robert Z. Hawkins Foundation Smith's Food and Drug Stores Susan G. Komen for the Cure – Northern and Southern Affiliates Terry Lee Wells Foundation The Safeway Foundation Thelma & Thomas Hart Foundation Toyota Motor Sales, USA Wal-Mart Foundation's State Giving Program W. H. & M. Wattis Harris Foundation William N. Pennington Foundation

Nevada Women's Health Connection

Services for Nevada residents

- > Uninsured or under-insured
- > Ages 21-64
- Cervical and Breast Cancer screening
 - Annual clinical breast exam, 40+
 - Annual screening mammography, 40+
 - Diagnostic services after an abnormal finding
 - Referral for treatment
- Access to Healthcare affiliated

Paint Nevada Pink

Wednesday, October 2, 2019 Reno Arch 6pm-7pm

PAINT NEVADA PINK



Thank you!

Questions?



Patient Centered Collaboration

Improve patient care
Evidence-based
Current
Clearly interpretable
Benefits the patients
Objectively verifiable

Breast Cancer Deaths Avoided per 10,000 Women Screened by repeat mammography over 10 years (RCTs)

Age range	n/10,000 (95%CI)
40-49	3 (0-9)
50-59	8 (2-17)
60-69	21 (11-32)
70-74	13 (0-32)

Annals of Internal Medicine • Vol. 164 No. 4 • 16 February 2016