

# **DEVELOPING A HIGH RISK WOMEN'S PROGRAM**

# Teresa Heckel, MBA, FABC, FNCBC

No Disclosures

Association of Cancer Executive 25th Annual Meeting, January 27, 2019

#### **AGENDA**

- Imperative for a High Risk Women's Program (HRWP)
- Defining the HRWP Model
- Identifying the High Risk Patient
- Genetic Counseling Considerations
- High Risk Management/Clinic Considerations
- Program Planning

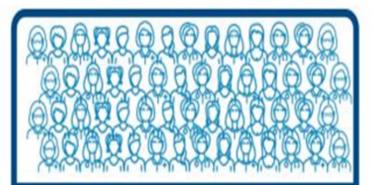


#### SARAH CANNON PROGRAM GOAL

To develop a program using evidence-based pathways for identifying women who are at increased risk for cancer, then providing personalized management, risk reduction and surveillance.



#### IMPERATIVE FOR A HIGH RISK WOMEN'S PROGRAM (HRWP)



#### MAGNITUDE OF PROBLEM

		_					_	
1	55	Repart	$\Gamma \Delta$	most	common	cancer	in t	211 ad
		DIEGSE	wn	111031	COMMISSION	Carreer		HC UJ

2nd leading cause of cancer deaths among women

15-20% Of all breast cancers associated with a family history

5-10% Of all breast cancers due to an inherited gene defect

1.2M Women in US with a history of breast or ovarian

cancer still need to be tested

10.7M High risk women in US without a history of breast or

ovarian cancer, but still need to be tested

90% Of women in the US needing testing have yet to be

identified





#### OWNERSHIP OF PROBLEM

- · PCP's time and processes inadequate
- · PCPs often not comfortable managing high risk patient

35% Of PCPs felt they could prescribe right genetic test

46% Of PCPs felt they could explain genetic test result

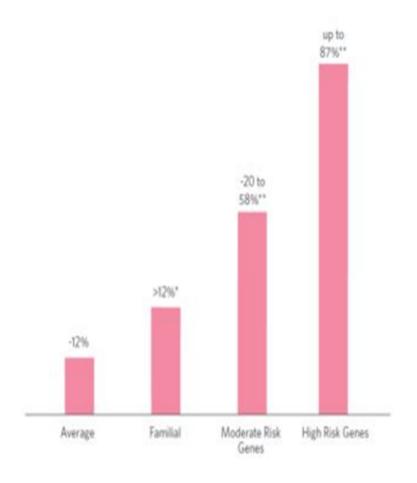
30-50% Of genetic tests ordered are inappropriate

Source: http://informeddna.com/research/117-genetic-counseling-connectingpatients-to-the-power-of; Oncology Roundtable interviews and analysis.



#### **IDENTIFYING GENETIC RISK**

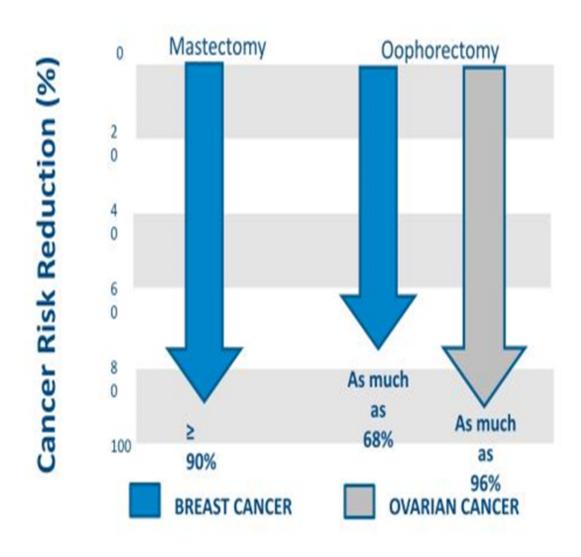
## Lifetime Breast Cancer Risks





Source: Ambry Genetics

### **OPPORTUNITY TO SAVE LIVES**





#### BENEFITS OF PROGRAM

#### **Patients and Providers**

- Preventing cancers saves lives and cost
  - Cancer cost avoidance Avg >\$100,000 pp
- Patients and providers become educated about risks and recommendations
- Patients get tracked/navigated along continuum
- Patient's care is coordinated with access to trained providers
- Program instills PCP's confidence their patients are receiving comprehensive, collaborative, multidisciplinary care



#### **Health System**

- Increased volumes w/supplemental screenings, visits, interventions
- Associated increased revenue
- Reduction in leakage due to navigation and genetic counseling
- Opportunity to differentiate program in market
- Enhanced relationships with referring providers
- Ability to meet NAPBC and CoC genetic standard



#### BARRIERS

- Woman's reluctance to engage in high risk screening
- Referring physician's reluctance to support the program
- Physician's perception of threat of loss of patient volumes or control
- Protocols and standards that may not be covered by insurance
- Lack of IT solutions to support the very manual processes of program
- Inability to acquire genetic professionals due to shortage in field
- Lack of collaboration between imaging, oncology, women and children's services and physicians
- Lack of program "ownership" identified leader



# HRWP MODEL



The Cancer Institute of HCA

#### MODELS BUILT AROUND CRITICAL POINTS IN HIGH RISK BREAST CARE









**Targeting Patients for** 

**Determining Optimal** Screening Modality

Genetic Testing and Counseling

**Ongoing Risk** Management

- Awareness campaigns
- Education about screening and genetic testing guidelines
- Mobile mammography

Pre-screening questionnaires to determine lifetime risk and optimal screening modality

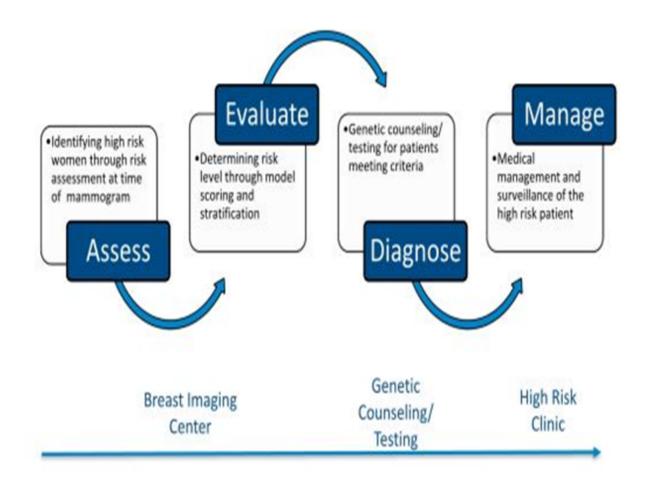
- Pre-testing counseling to determine eligibility and inform patient's choice
- Ordering tests
- Counseling patients about their test results and risk management options

- Health and wellness programs
- Recommendations for different/more frequent screenings
- Prophylactic surgery
- Chemoprevention

Source: Oncology Roundtable interviews and analysis.



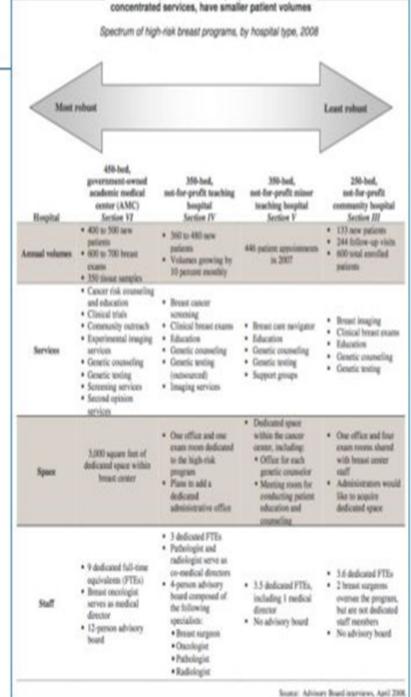
#### CONTINUUM OF CARE WILL DETERMINE PROGRAM MODEL





#### HRBP MODELS

- HRBPs vary significantly
- Popular: NP-run clinics
  - Advanced Genetics Nursing Certification through COH
  - NCBC/COH Breast Cancer Risk Assessment Certification in development
- Evolution of "Cancer Risk and Genetics Center"
- Will need to determine your "must have's"



Community hospital-based programs offer more



#### DEFINING STANDARDS ALONG CONTINUUM

- Patient populations to identify
- Leadership structure
- Diagnostic technology
- Risk assessment and stratification
- Genetic counseling and testing
- High risk management/clinic services
- Providers and navigators
- Pathways/guidelines
- Support and prevention services
- Clinical research opportunities



# IDENTIFYING AND NAVIGATING THE HIGH RISK PATIENT

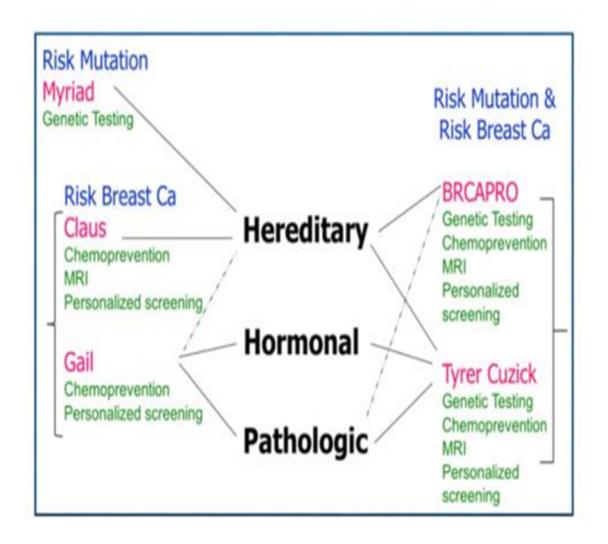


#### ASSESSING FOR RISK – 2 SEPARATE CLINICAL ISSUES

- The risk of breast cancer over time which will help inform the need for chemoprevention, MRIs, earlier mammography screening and additional risk-based screening.
- The risk of genetic mutation which will help inform the need for genetic counseling and testing.



### **CHOOSING RISK MODELS/GUIDELINES TO USE**



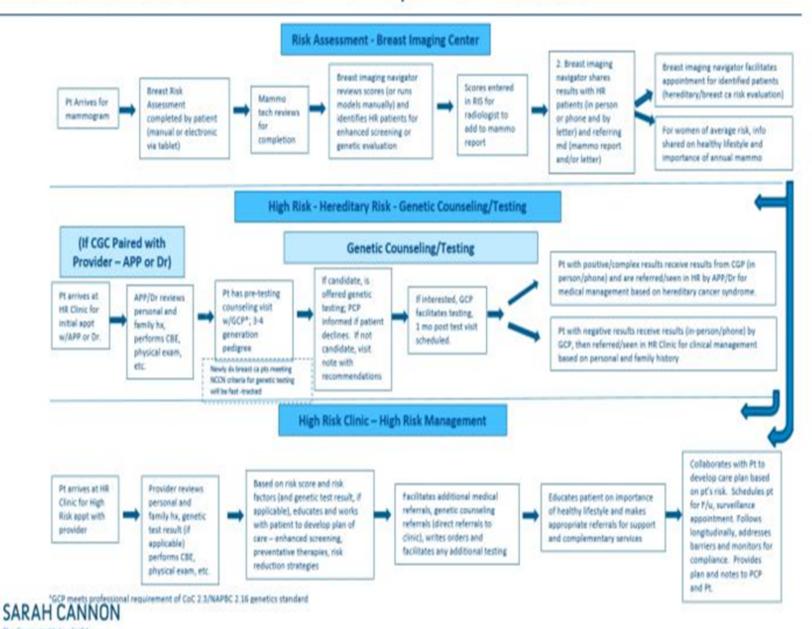


#### SC RISK MODELS

- To identify lifetime risk of breast cancer Tyrer-Cuzick (minimum v6; prefer v7 or 8 (takes into account breast density))
- To identify women for chemoprevention Gail model
- To identify need for genetic counseling/testing NCCN guidelines



### LEVERAGING TECHNOLOGY - MANY COMPLICATED/MANUAL PROCESSES



#### IT SOLUTIONS TO SUPPORT THE PROGRAM

- At a minimum, ensure your mammography information system/RIS supports processes in breast imaging center:
  - Automatic intake of patient personal and family history
  - Automatic running of selected risk models (and versions) and stratifying according to risk
  - Generation of high risk worklist for patient management and referral
  - Customization of mammography report to include risk information and recommendations





#### COMPREHENSIVE CANCER RISK ASSESSMENT AND MANAGEMENT SOLUTIONS

- Supports all processes across the continuum
  - Risk assessment and running validated models
  - Scoring/Stratification
  - Intervention recommendations
  - Navigation
  - Genetic evaluation/testing Pedigree mapping
  - Risk management and surveillance
  - Customizable patient and provider communications
  - Report generation
- Examples: CancerIQ, CRA Health (Hughes Risk), perhaps others



### CRITICAL ROLE - BREAST IMAGING NAVIGATOR/COORDINATOR

- Typically an RN or advanced mammography technologist
- Facilitates the high risk program activities within the breast imaging center
- Educates patients regarding risk results
- Communicates with patients and providers
- Facilitates appropriate referrals
- Key to ensuring patients don't fall through the cracks
- Key to reducing leakage
- ROI is predicated on this position in place



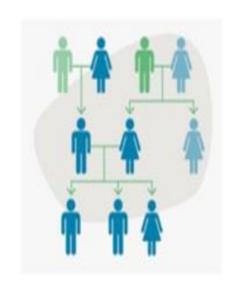


# GENETIC COUNSELING/TESTING CONSIDERATIONS



### PRIMARY COMPONENTS OF GENETIC COUNSELING/TESTING PROCESS

- Risk assessment
- Pre-test counseling
- Testing to include selecting the most appropriate and cost-effective test for the patient and their family and ordering test through a high quality lab.



Post-test counseling with results disclosure



#### GENETICS PROFESSIONAL – PROVIDER MODEL

## CoC/NAPBC Genetics Professional Education/Training Criteria

- An American Board of Genetic Counseling (ABGC) or American Board of Medical Genetics (ABMG) board-certified/ board-eligible and (in some states) a licensed genetic counselor
- An American College of Medical Genetics (ABMG) physician/PhD boardcertified/board-eligible in clinical or medical genetics
- A Genetics Clinical Nurse (GCN), an Advanced Practice Nurse in Genetics (APNG), or an Advanced Genetics Nursing-Board Certified (AGN-BC) credentialed through the American Nurses Credential Center (ANCC)
- An advanced practice oncology nurse or Physician Assistant who is prepared at the graduate level (master or doctorate) with specialized education in cancer genetics and hereditary cancer predisposition syndromes; certification by the Oncology Nursing Certification Corporation is preferred
- A board-certified/board-eligible physician with experience in cancer genetics (defined as providing cancer risk assessment on a regular basis) employing a model that includes both pretest and posttest counseling.



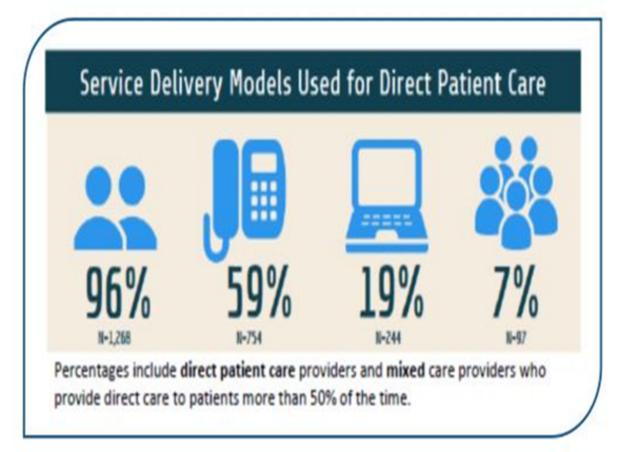


#### CERTIFIED GENETIC COUNSELOR RESOURCING OPTIONS

- Employ
  - High demand/Supply low, but many new training programs
- Contract locally
- Contract remotely with Genetic Counselor Extender model
  - Uses RNs/APNs with genetics training to partner with remote CGC
- Contract through genetic counseling staffing company
- Access via genetic labs
- There are pros/cons of each



#### SERVICE DELIVERY MODELS





#### REIMBURSEMENT MAY INFLUENCE PRACTITIONER AND SERVICE DELIVERY MODELS

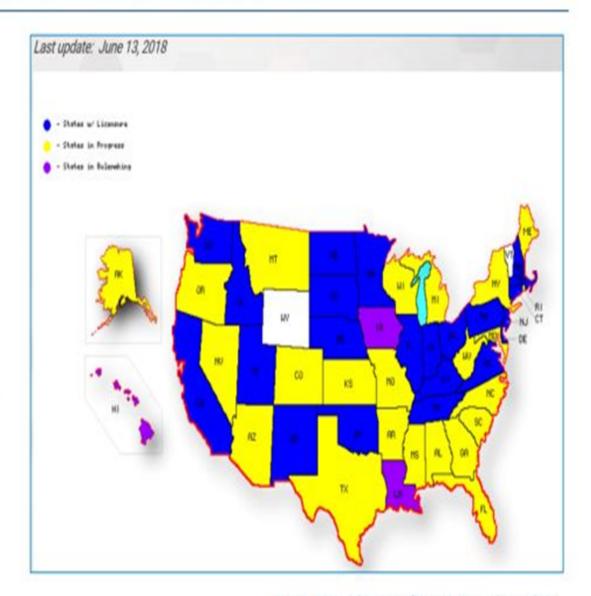
Genetic Counseling Provider(s)	Patient Insurance Status	Billing Method			
	Commercial (Private)	CPT 96040, billed 1 unit for each 30 min of face to face counseling time with pt/family			
	Medicare	Medicare does not recognize CGCs as providers, does not recognize CPT 96040  - E & M codes "incident to" (99XXX codes, depending on level of visit and new or established pt)			
	Medicaid	Medicaid coverage is state-dependent			
Genetic counseling by certified genetic counselor	Uninsured, uncovered benefit, others	A STATE OF THE PARTY OF THE PAR			
(CGC) –	96040 for telepho telephonic GC ser o <b>Telephon</b> There are	According to the National Society of Genetic Counselors, most commercial insurers are reimbursing spic genetic counseling services. Check with your insurers. Check with your state Medicaid program for vices for Medicaid patients.  Exploring medical evaluation codes provided by non-physician health care professional; 98966-98969, a number of exclusions in using this code and many payers may not reimburse. Check with your local see department.			
	CT 4/2/4/10/10/20/20/20/20/20/20/20/20/20/20/20/20/20	<b>b-based):</b> Telehealth for genetic counseling is currently not recognized by Medicare, even with a GT elth services may be covered by Medicaid if the service location is considered rural. Check with your ogram.			
	Group Counseling	: 98961-98962; For group genetic counseling			
Genetic counseling by qualified APP or Physician	All Patients	E & M codes (99- codes, depending on new or established pt)			



<sup>\*</sup>This is not meant to be an exhaustive list, but rather frequent codes and processes that may be used for genetic counseling billing/reimbursement. There are numerous considerations for each billing method.

### MANY STATES NOW REQUIRE LICENSURE FOR GENETIC COUNSELING

- 22 states require licensure
- 2 have passed bills and are in rule-making
- NSGC currently working with some congressional representatives on federal legislation to recognize CGCs as Medicare providers





Source: National Society of Genetic Counselors website

#### GENETIC COUNSELING REFERRAL MODEL MAY INFLUENCE PATIENT FOLLOW THROUGH

Model	Description	% of patients referred seen by genetic counselor
Referral Model	Interested high risk patients leave screening center. A genetic specialist calls to schedule appointment with genetic counselor	8%
Point of Care Scheduling	Screening center facilitates the scheduling of appointment with genetic counselor before interested high risk patient leaves center	18%
Point of Care Counseling	Screening center provides interested high risk patient option for immediate access to genetic counselor prior to leaving center. If unable to stay, an appointment is scheduled	49%

Source: CancerIQ Observational Study. Intro to Genetic Cancer Risk Assessment Implementation

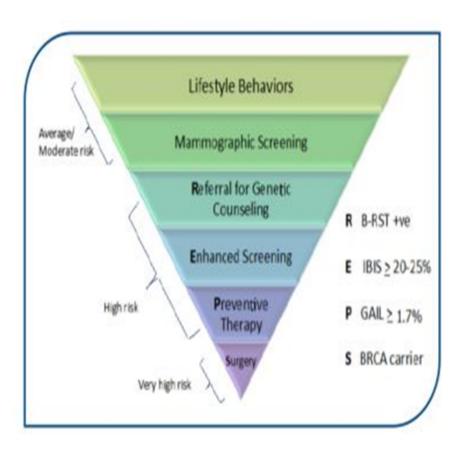


# HIGH RISK MANAGEMENT/CLINIC CONSIDERATIONS



#### HIGH RISK MANAGEMENT

- Risk level determines intervention options and providers involved
- Focused on the education, medical management and surveillance of high risk patient



Source: Pruthi, S. et al. Assessing and managing women at increased risk for breast cancer.



### HIGH RISK MANAGEMENT/CLINIC SERVICE DELIVERY MODELS



#### "Bricks and Mortar"

- Designated clinic space
- Provides one-stop shop for high risk services
- · Includes genetic counselor, NP/Physician
- · Ideally co-located with Breast Center
- May designate Multidisciplinary High Risk Clinic Days
- · Will often require administrative support
- May provide support services such as preventative education, smoking cessation, nutritional counseling, healthy lifestyle counseling, high risk support group
- Evolution from High Risk Breast Clinic to High Risk Cancer Clinic



#### "Virtual"

- Genetic counselors and high risk providers reside in different locations
- · Patient coordination is key
- Process of identifying, navigating, referring and managing high risk patient well defined
- · May increase fragmentation and duplication of services
- NP embedded in physician practice



#### FACTORS THAT MAY INFLUENCE HIGH RISK CLINIC MODEL

- Local high risk services currently being provided is there partnership potential, or will the program compete?
- Education/training of local providers is there CoC/NAPBC qualified practitioner or will one need to be recruited? Is there one available remotely?
- Specialty of the physician champion/identified supervising physician will the NP be supervised by/paired with a breast surgeon, medical oncologist or PCP/OB-Gyn?
- Space Is designated clinic space available or able to be built out?
- Reimbursement



#### HIGH RISK CLINIC PROVIDER MODELS

- Very dependent on providers and level of expertise available
- Ideally, a collaborative, multidisciplinary team of genetic counselor, nurse practitioner and supervising or attending physician(s).
  - Allows all practitioners to work at highest level of licensure
  - Ensures better access for patients each provider has primary roles
  - Provides more streamlined hand-off for patients needing additional medical management or risk reduction services.

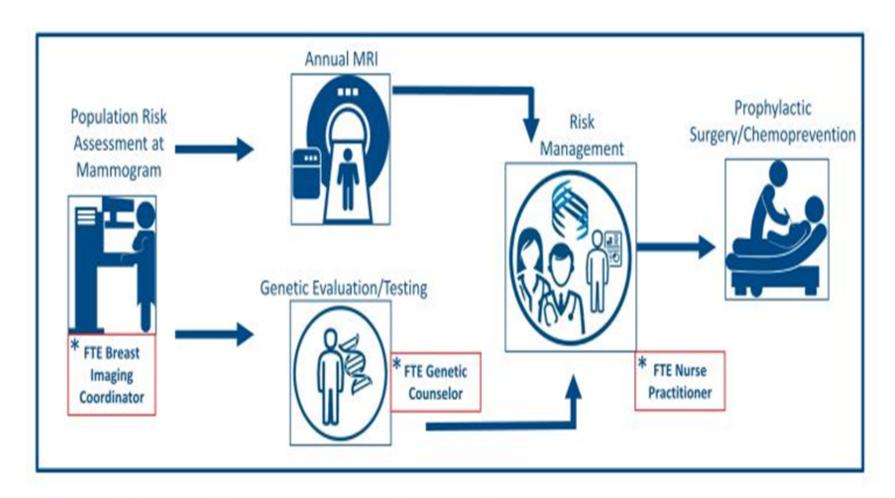




# **PROGRAM PLANNING**



#### **KEY INVESTMENTS ACROSS CONTINUUM**



<sup>\*</sup>Does not include any required administrative resources or capital equipment, such as MRI



#### PROJECTING RETURN ON INVESTMENT

#### **Operating Expenses**

#### Staffing

FTE Breast Imaging Coordinator \$77.000

FTE Genetic Counselor \$86,500

FTE Nurse Practitioner \$104,000

Total (Benefits not included) \$267,500

#### Information Technology

Comprehensive IT Solution \$35,000

**Total Annual Operating Expenses \$302,500** 

#### Assumptions

#### Costs

Assumes additional FTEs needed

### Volumes/Revenues

- Assumes Use of Tyrer-Cuzick V 7 or 8
- Assumes use of NCCN Guidelines (Genetic Evaluation)

# 10,000 Screening Mammograms Estimate 20% will be "High Risk"\*\*

Procedure	Estimated Eligible	Adoption Rate	Annual Volume	Net Revenue
Breast MRI	1500 (15%)			
Genetic Consults	2000 (20%)			
Prophylactic Mastectomy	20 (0.2%)			
Prophylactic BSO/Hysterectomy	20 (0.2%)			
Diagnostic F/u	110 (1.1%)			
Diagnostic BX	11 (0.11%)			

Net Revenue
Less Operating Expenses
Net Income



<sup>\*</sup>Does not include additional revenues from Ultrasounds, or other screening/diagnostic, treatment procedures or E & M visits

<sup>\*\*</sup>High Risk is defined as meeting NCCN guidelines for genetic evaluation and/or having >20% Lifetime risk via TC v7, 8

#### KEY PERFORMANCE METRICS ACROSS CONTINUUM

Risk Assessment at Screening Mammography



#### Supplemental Screening



#### Genetic Evaluation/ Testing



#### High Risk Consultation



#### Prophylactic Surgery/ Chemoprevention



#### HRWP Program



#### **KEY METRICS**

- % of screening mammography patients completing risk assessment
- % of screening mammography patients consenting for HRWP Outcomes Study

#### **MEASURES**

- # of screening mammography patients
- N of screening mammography patients completing risk assessment
- # of screening mammography patients consenting for HRWP Outcomes Study

#### KEY METRICS

- % of screening mammography patients with lifetime risk >20%
- % of patients in whom breast MRI screening is recommended
- % of patients who complete breast MRI and revenue

#### **MEASURES**

- # of screening mammography patients with lifetime risk ≥20% (TC)
- If of above patients in whom breast MRI screening is included as a recommendation on the mammography report
- # of screening mammography patients with lifetime risk ≥20% that complete breast MRI exam within 15 months
- Revenue from above MRI exams

#### KEY METRICS

- % of screening mammography patients who are genetic counseling (GC) candidates
- % of patients in whom GC is recommended
- % of patients who complete
  GC

#### **MEASURES**

- If of screening mammography patients meeting NCCN criteria for GC
- If of above patients in whom GC is included as a recommendation on the mammography report
- # of screening mammography patients who are GC candidates that complete the GC visit at the center within 15 months

#### **KEY METRICS**

- % of screening mammography patients identified as "high risk"
- % of patients in whom a high risk (HR) consult is recommended
- % of patients who complete a HR consult

#### **MEASURES**

- # of screening mammography patients that are "high risk" (in one or more of the following categories: >20% TC lifetime risk, GC candidate, >2% 5 year Gall risk)
- # of above patients in whom a HR consult is included as a recommendation on the mammography report
- # of "high risk" screening mammography patients that complete initial HR consult at the center within 15 months

#### **KEY METRICS**

- % of patients compliant with chemoprevention
- % of patients compliant with breast surgical consult
- % of patients compliant with GYN surgical consult

#### **MEASURES**

- # of "high risk" patients that are prescribed chemoprevention
- # of above patients that comply with chemoprevention
- # of "high risk" patients that are referred for breast surgical consult
- # of above patients that complete breast surgical consult
- # of "high risk" patients that are referred for GYN surgical consult
- # of above patients that complete GYN surgical consult

- Program must achieve a minimum of "Core" level HRWP Center of Excellence
- Data related to patient experience, satisfaction, stress levels (to be included in HRWP outcomes study)

#### STEPS FOR DESIGNING YOUR HRWP

- √ Identify executive sponsor
- ✓ Identify physician champion consider med onc or breast surgeon who will serve as supervising physician for APP
- ✓ Identify additional key stakeholders and form HRWP Planning Team be sure to include primary care/OB-GYN!
- ✓ Define your ideal state for HRWP
- ✓ Identify what high risk services currently being provided and by whom leverage partnerships
- ✓ Hold facilitated process mapping session to identify gaps and variances.
- Perform SWOT analysis on current program and prioritize where to start
- Determine scope of services to provide and resources needed to provide them
- ✓ If possible, acquire comprehensive cancer risk assessment and management IT solution.
- ✓ Determine risk assessment tool, risk model(s), clinical guidelines and protocols to use
- ✓ Map out workflow in breast imaging center
- ✓ Determine genetic counseling practitioner model and service delivery model
- ✓ Determine high risk management/clinic provider model and service delivery model
- ✓ Develop and provide community, patient and provider education and marketing
- ✓ Collect and report data to demonstrate program success and allow for continuous improvement.



# "To identify a woman as a carrier only after she develops cancer is a failure of cancer prevention"

- Mary-Claire King, PhD

(American Geneticist)





# **THANK YOU**

Teresa.heckel@sarahcannon.com