

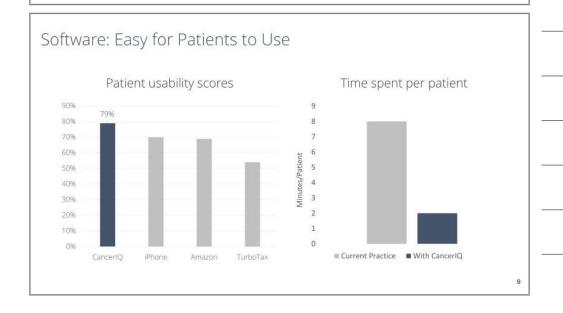
### Common Challenges Generating Referrals & Availability of Genetic Clinical Follow-up with **Navigating Patients** Counseling Resources High Risk Patients The manual process of Genetic specialists Lack of patient followspend 50% of their time finding patients that up leads to poor meet criteria is erroron admin work that adherence and prone and time could be spent on leakage consuming patient care Generating Referrals How to change referral patterns and increase utilization of high risk services The Paper Form • Pros: very simple to implement and easy to handle A family history with 3 or more breast cancers on the same side of the family diagnosed at any age? • Cons: Requires humans to evaluate r to a complex, ever-changing set of gu (This could include the patient) A family history of 3 or more breast, ovarian, or pancreatic cancers on the same side of the family diagnosed at any age? (This could include the patient) · Cons: Requires frequent updates to p A family history of Triple Negative breast cancer (ER-, PRretraining costs to stay up to date wit HER2-) at age 60 or younger? Cons: Lower patient accuracy in reporting information due to "multi-segmented" questions

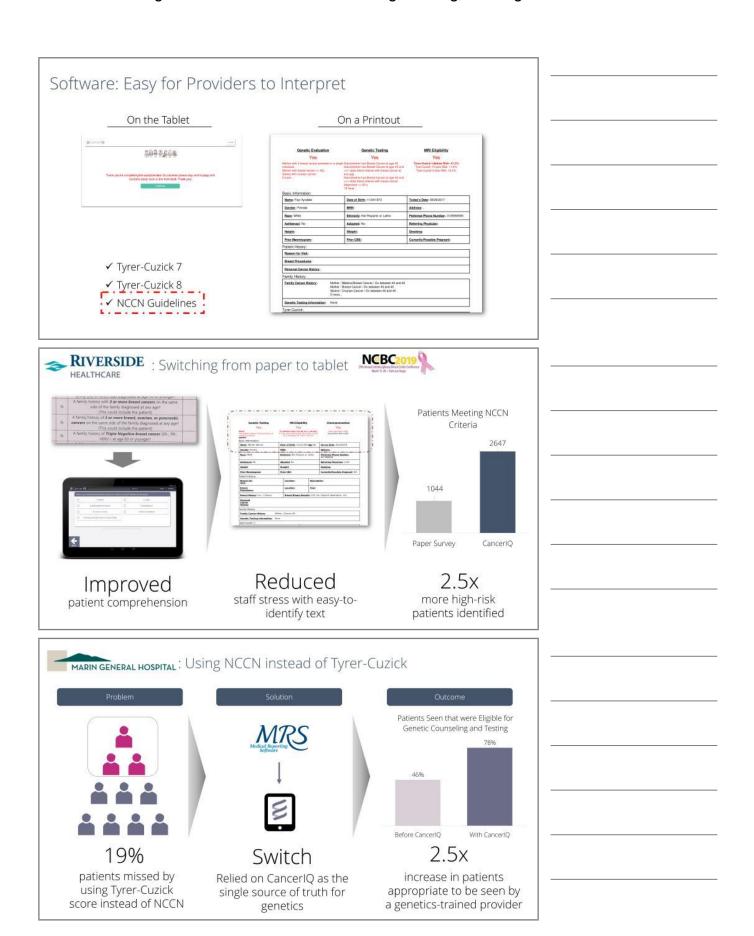
## The RIS or EMR Pros: Integrated with all other health information Volve Output Out

### People

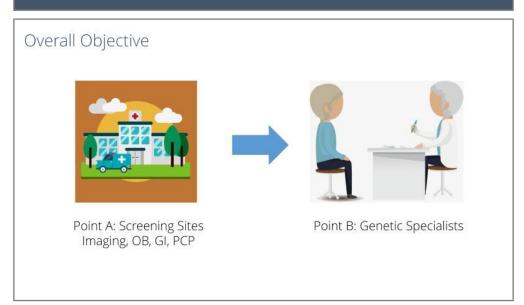
"You don't have a family history of breast or ovarian cancer – do you?"

"Has your family history changed over the last year?"

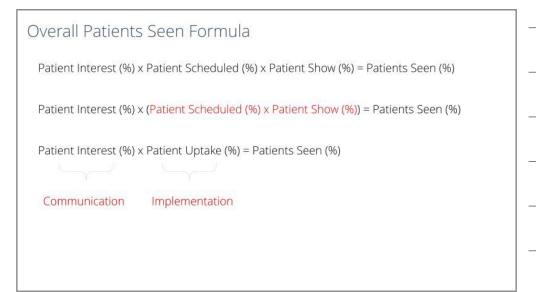


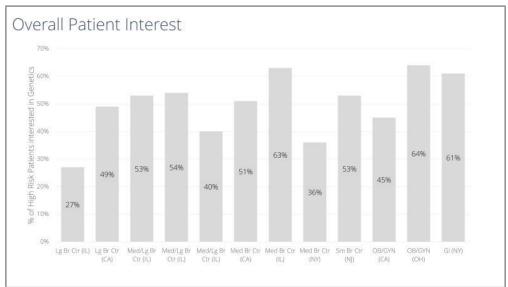


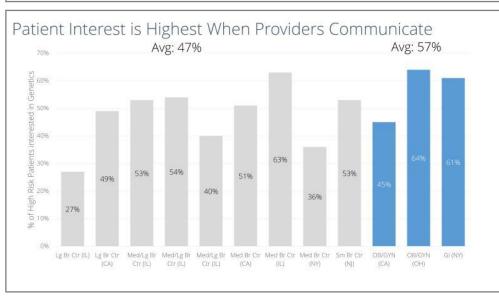
### Navigating Patients to Genetics Getting high risk patients from point A to point B





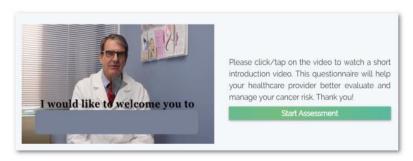






### Communications Tip #1: Get Providers Involved

• Customize your welcome video introducing the questionnaire



### Communications Tip #2: Be Positive, Directive

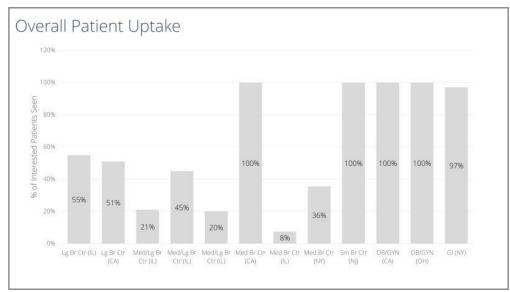
### More

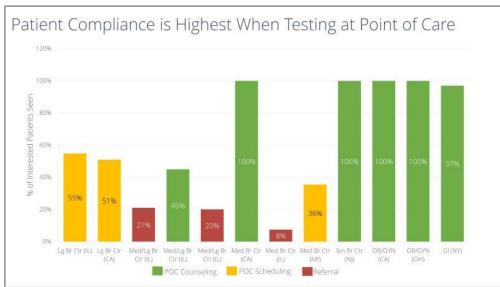
- You are eligible for a cancer prevention consultation
- You are eligible for a breast health consultation
- You are eligible for something more personalized, and above and beyond a mammogram

### Less

- You are high risk and should see a genetic counselor to explore hereditary cancer testing
- You might want to consider calling the genetics department

# Use Audit Feedback to Improve Communications Over Time | Cancer | Q Analytics | Scaleback | Scaleback





### Point of Care Counseling Alternatives

### **€**Cancer IQ

### Genetics Extenders

- High risk nurse navigators, NPs, and PAs trained in pre-test counseling
- Already having conversations with patients about family history and cancer

### **Trained Providers**

- Graduates of CME programs designed for providers:
  - City of Hope Intensive Course
  - ACOG, ASCO, AsBRS Courses
- Already have the relationship and the clinical context, just need the time

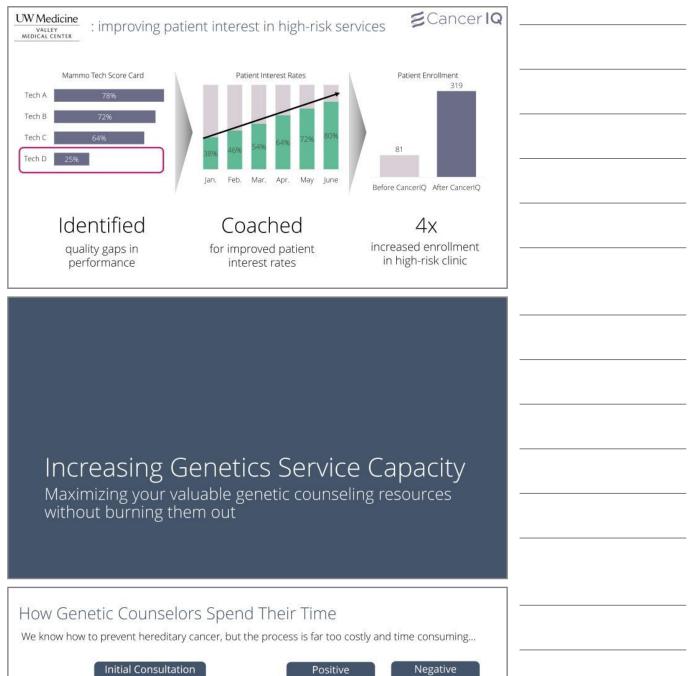
### TeleHealth

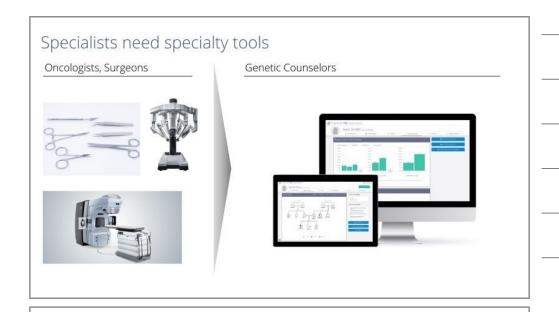
- Same-day genetic counseling service delivered over the phone or the web
- Already have the relationship and the clinical context, providers just need the genetics education

23%

31%

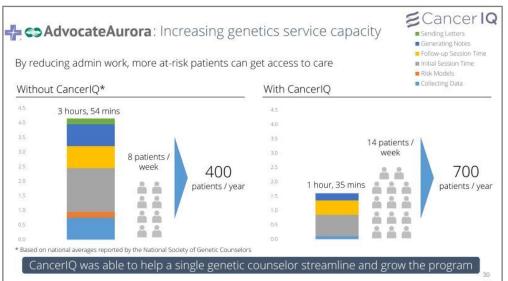
46%

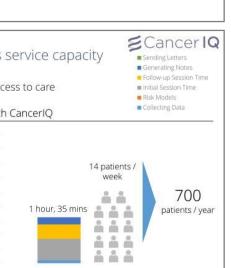


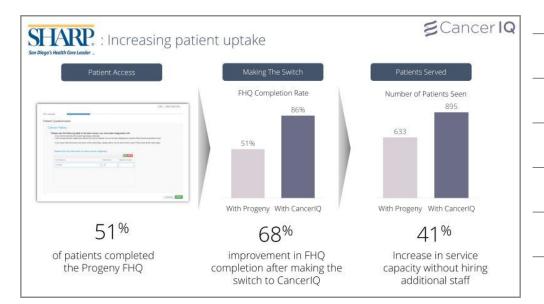


### Standardization Supports Efficiency

- · Family Health Questionnaire (FHQ)
  - ✓ Online or by Tablet; English and Spanish
- · Patient Communication (Emails)
  - ✓ Auto generated as reminders for FHQ completion
- Provider Communication
  - ✓ Incomplete Referral Form
  - ✓ Patient Contact Attempts
- Report Templates (Patient and Provider)
  - ✓ Initial Consult, Disclosure/ Results and Recommendations
- Smart Text Terms/Definitions/Care Management Recommendations
  - ✓ Hyperlinked definitions/explanations of terms, results, care management recommendations

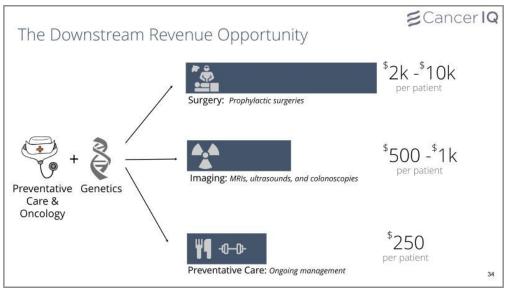


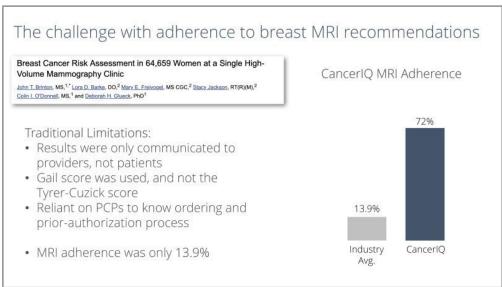






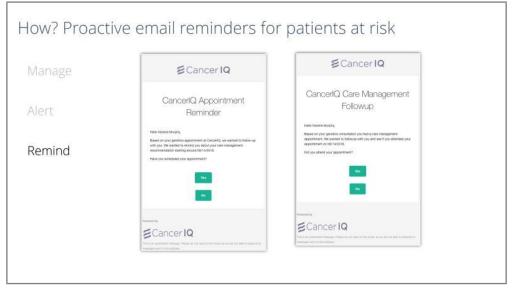
### Managing High-Risk Patients The best way to maximize the clinical and financial value of genetics in your health system

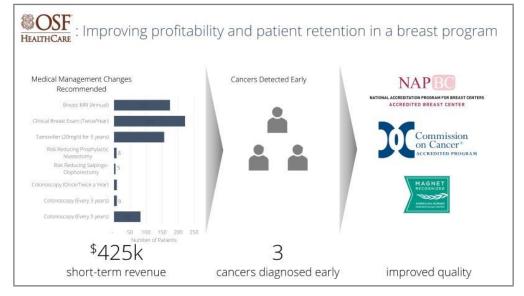












### Financial Considerations

Financial Analysis from Oncology Leadership at Sharp Healthcare

### Downstream revenue from non-Capitated patients\*

- · Increased screening frequencies
- High risk screening codes/reimbursement replacement for routine screenings
- Replacement of routine screening modalities with complex modality screening (breast MRI replacing mammography)
- · Prophylactic surgeries

SHARP.

Care Management Recommendation	Volume (Nov 2017-Dec 2018)
Annual breast MRI screenings	152
Risk-reducing mastectomy	24
Risk-reducing salpingo-oophorectomy	16
Colonoscopy once/twice a year	6
Colonoscopy every 3 years	11
Colonoscopy every 5 years	23

Depends on organization ownership of revenue streams

SHARP

### Staff Efficiency Dollars vs Additional Capacity Impact

### **Staff Efficiency Calculation**

- ✓ "Expense reduction" per patient using GC salary time savings (example: 2 hrs/pt)
- ✓ Able to calculate salary savings to see a greater number of patients with same staffing level
- ✓ Not applicable as a viable staff reduction approach due to growing demand for GC services

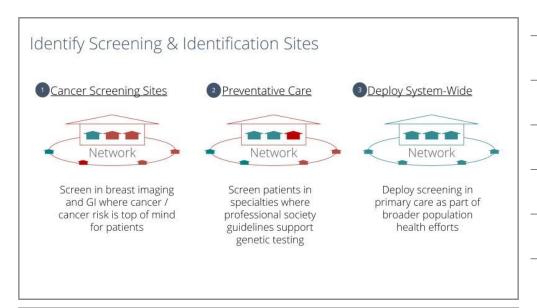
### **Increased Opportunity for Favorable Financial Impact**

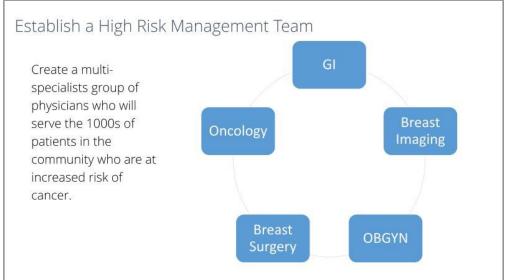
- ✓ Additional GC patients seen due to increased capacity
- ✓ Additional downstream revenue from additional patients
- ✓ Additional averted capitation costs from future/subsequent cancer treatment with screening/prevention measures realized

D	epend	is on or	ganizati	on ownership	o of revenue	streams or assoc	ciated popula	tion financial risk

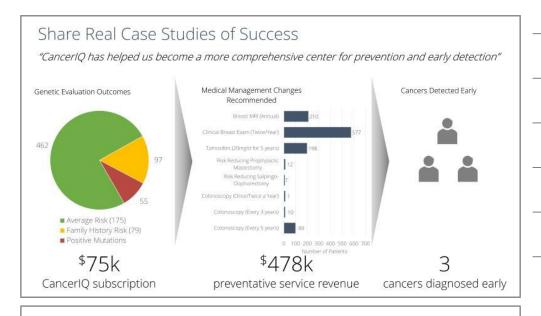
SHARP

	l
Averted or Reduced Cost of Future/Subsequent Cancers  Averted expense to health plans and those with financial risk for capped populations  Cost of diagnostic work-up  Treatment costs  Provider expense  Surveillance monitoring expense  The number of averted new primary cancers in high risk patients can be significant. Many have 2-3 primaries before risk assessment/counseling efforts initiated.  With changes in care management implemented based on counseling and/or testing recommendations, future cancers are likely to be diagnosed at an earlier stage and are less costly to treat.	
SHARP	
Averted Expense Example	
Evaluation of Sharp breast cancer patients diagnosed in 2017 included those who	
were:	
<ul> <li>Triple negative at &lt;= age 60, or</li> <li>Any breast cancer at &lt;= age 50.</li> </ul>	
Estimated potential financial impact for IP/OP hospital expense for just 1	
subsequent cancer dx per patient. (Does not include <u>all</u> drugs, MD fees, or ongoing surveillance expense) <b>Understated overall expense of total care</b> .	
Averted expense to health plans: \$ 6M (Net Revenue)  Averted cost for capped patients: \$ 3M (Direct Expense)	
Patient population is mixed so impact is in between.	
Estimated cost of routine breast panel testing and counseling for same population = less than \$500,000.	
STARP	
Getting Buy-in from Leadership	
Justifying an investment in a more robust genetic cancer	
risk assessment program	





		Pre-CancerIQ	Post-CancerIQ	+ Change
Highest Risk (5%)	Surgeries	\$0	\$30,151	\$30,151
Above Average Risk (10%)	2 Breast surveillance	0	90,086	90,086
111	3 E&M / genetics visits	0	150,743	150,743
Average Risk	Revenue	\$0	\$270,980	\$270,980



### The Opportunity

- Enhances The Patient Experience
- 2 Improves Patient Care, Safety, and Population Outcomes
- Improves Staff Productivity and Reduces Staff Burnout
- Decreases the Per Capita Cost of Care
- Attracts New Patients and Increases Patient Retention
- 6 Differentiates Service Offerings Over Competitors

Saves Lives and Prevents Adverse Outcomes

### FAQ #1

Why is genetic counseling an important differentiator for your cancer program?

### How we think about genetic counseling Core part of a multi-disciplinary cancer program

- · Key component of clinical decision-making:
  - Cancer treatment
  - Prevention
- Clear vision and cross-functional alignment on the program
  - Clinical champions and buy-in across the system Genetic Counseling

We owe it to our patients to have this service available for then

### Differentiation from Academic settings

- Located in an urban setting in the heart of Chicago with a crowded field of competition
- Compete directly against several nationally recognized, major academic hospitals
- Need to deliver an academic level of care that is personalized at the community level



### FAQ #2

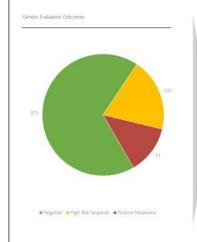
Genetic counseling is not a huge revenue source for the cancer center. Why did you invest in specialty software for this service line?

### How We Think About It

- Throughput issues could negatively impact other downstream processes and services, which are higher revenue sources, e.g., diagnostic testing, treatments
- Think about the leading-edge above and beyond the technology or machine
- "Leading edge technology" differs depending on the specialty involved:
  - Tool for surgery
  - · Imaging modality for radiology
  - · Productivity software for genetic counseling



### Genetic Counselor – similar potential downstream opportunities





### FAQ #3

Genetics solutions are newer and typically unbudgeted. How did you determine your budget and what you were willing to invest in this area?

	BUILD IN-HOUSE	
		GENETICS SOFTWARE
Clinical team time	Requires clinicians to act as product managers	20 hours
IT Time for Setup	Get on the IT project queue     Scoped hours of work	2 hours
Quarterly Guideline Updates	Manually update with latest NCCN Guidelines     Clinical time, IT resources	0 hours
Ongoing Maintenance	Maintain in-house solution     IT resources, clinical time	0 hours

### Alternative Costs - How much to achieve goals without software Alternative #1 Alternative #2 Alternative #3 Go it Hire Use Alone Staff Software Software Research Care Assistant Manager Counselor --1 --Intake / Screen Order Test Analyze Counsel Order Test Analyze Follow-up Counsel Intake / Screen Order Test Intake / Screen Follow-up Counsel Analyze Follow-up 3-4 staff, too costly 5 hrs, too much time 1/5 time, lower cost

## FAQ #4 A lot of providers are skeptical about their patients' ability to complete CancerlQ questionnaires on their own and in a timely manner. How has the patient experience been?

### The CancerIQ survey

### Experience in Clinic

- Patients receive in reception area
- Little staff assistance needed to complete
- Questions and prompts are easy to follow

### Experience at Health fairs

- •Tablets at formal galas, community events and health fairs
- •Regardless of the audience, easy for people to use
- Genetic counselor also has a seamless experience with necessary follow-up

Future product development to enable longitudinal approach to patient relationships (e.g., language development, etc)

### **Patient Survey Metrics**

Completion Rates

 85% of patients who have provided an email complete the survey before their appointment

### **Completion Times**

	Day 1	Day 2	Day 3	Day 4	Average
Average Time - M1 - Basic	05:03	04:28	03:36	03:33	03:38
Average Time - M2 - Family	12:20	13:02	11:39	11:10	11:24
Average Time - M3 - Medical	04:26	04:30	04:11	04:09	04:03
Average Time - M4 - Screening	03:56	04:46	04:19	03:59	04:11
Average Time - M5 – Lifestyle	01:19	01:08	01:17	01:26	01:15
Total Expected Survey Time	27:05	27:54	25:01	24:17	24:32

### FAQ #5

What's next? Where do you see genetic risk assessment being useful?

### Other patient engagement / screening opportunities In Clinic Health Fairs Patient Portal Working with CancerIQ on different languages Complete prior to the appointment, or in the waiting room if they don't have access beforehand Can be done on site, and allow you to immediately Working with CancerIQ on EMR integrations generate and print a pedigree (and attach a business card) Long-term: expanding across clinical specialties Breast Imaging Oncology Primary Care Surgery OB/GYN 2017 2018 **Future** about the people who drive the program FAQ #6 How important was it for software to be integrated with your EMR to deliver value?



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