

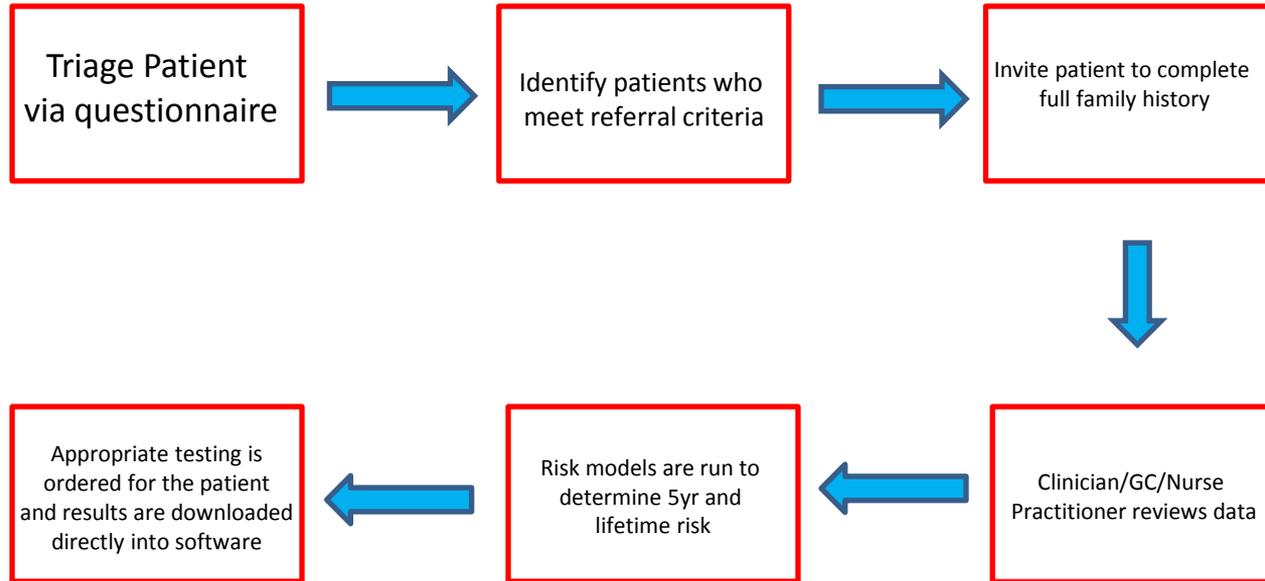


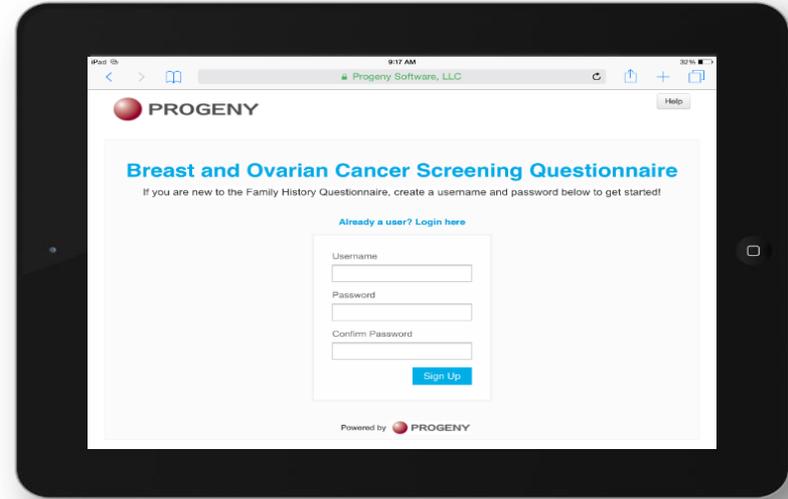
FHQ

Family History Questionnaire

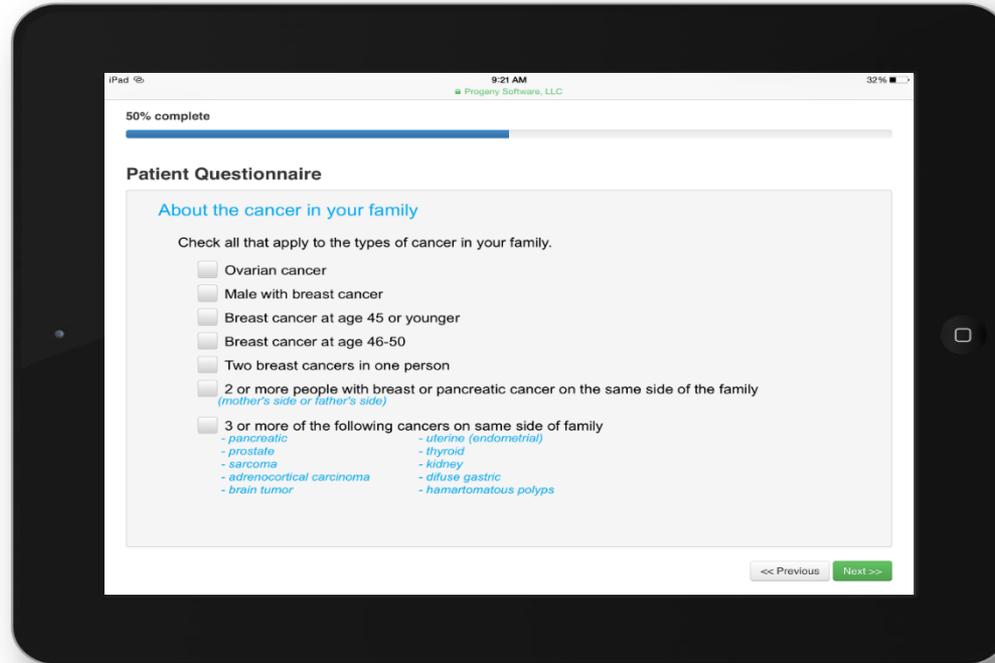
Providing the Building Blocks for Personalized Healthcare

IDENTIFYING AT RISK PATIENTS





The following workflow is an example of providing an iPad or Kiosk station in the waiting room to screen patients



Basic family history information is asked of the patient to assess risk

PROGENY CLINICAL

The screenshot displays the Progeny Clinical interface. At the top, there are navigation buttons for 'Invite Patient', 'Invite Status', 'Build Spreadsheet', 'Run Spreadsheet', and 'Order Status'. A 'Dashboard' tab is active. The main section is titled 'Patients' and features a search bar and a '+ New Patient' button. A table lists three patients: Johnson, Cavallo, and Barrington. The 'Referral?' column for the Johnson patient is highlighted with a red arrow. An 'Actions' dropdown menu is open for the Johnson patient, with 'Invite Patient' circled in red and a blue arrow pointing to it. A dropdown menu for 'Only Probands' is also visible.

	Last Name	First Name	Pedigree Name	Individual Name	MRN#	DOB	Referral?	Appt Date	Last Modified
Actions	Johnson	Ann	Johnson	Johnson_1	2685874	07/06/1952	Yes	07/12/2015	06/22/2015
Actions	Cavallo	Michael	Cavallo	Cavallo_1	3685428	08/13/1948	Yes	07/05/2015	06/22/2015
Actions	Barrington	Jill	Barrington	Barrington_1	2458754	09/16/1972	No	06/29/2015	06/19/2015

Clinicians can review for those patients who meet referral criteria and invite them to complete a full risk assessment questionnaire

From: Progeny Notifications
Sent: Wednesday, June 1, 2016 4:16 PM
To: Jane Doe
Subject: Family History Questionnaire



Your logo here

Dear Jane Doe,

Please take a few minutes to fill out our online Family History Questionnaire (FHQ). The FHQ will ask you about your personal and family history of cancer. It may help to talk with family members to gather information about their cancer diagnoses, types of cancer, ages of diagnosis etc. Once you start the questionnaire, you will be able to save it and come back later if needed. Please fill out the information the best that you can.

**Your contact
information
here**

[Click here to begin your Online Family History Questionnaire](#)

*If you have any questions, please contact us at:
Email: support@progenygenetics.com
Phone: 800-776-0773*

Preview the email template and send!

79% complete

Describe your family

Please enter the first name for each of your relatives.

Then use the following descriptions to complete the family table:

- **Vital Status** - Is this family member living or deceased?
- **Age (or age at death)** - If the family member is living please enter their current age (or your closest guess). If the family member is deceased please enter the age they passed.
- **Cancer?** - Has this family member ever been diagnosed with any type of cancer?
- **Genetic Testing?** - Has this family member ever had genetic testing for cancer predisposition?

» Use the **Add Family Member** button to add any other family members that are not listed.

» If you need to remove a family member, please use the **Delete Individual** button at the bottom of the table.

Relationship	First Name	Vital Status	Age (or age at death)	Cancer?	Genetic Testing?
Father	<input type="text"/>	Alive ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>
Mother	<input type="text"/>	Alive ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sister	<input type="text"/>	Alive ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>
Son	<input type="text"/>	Alive ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>

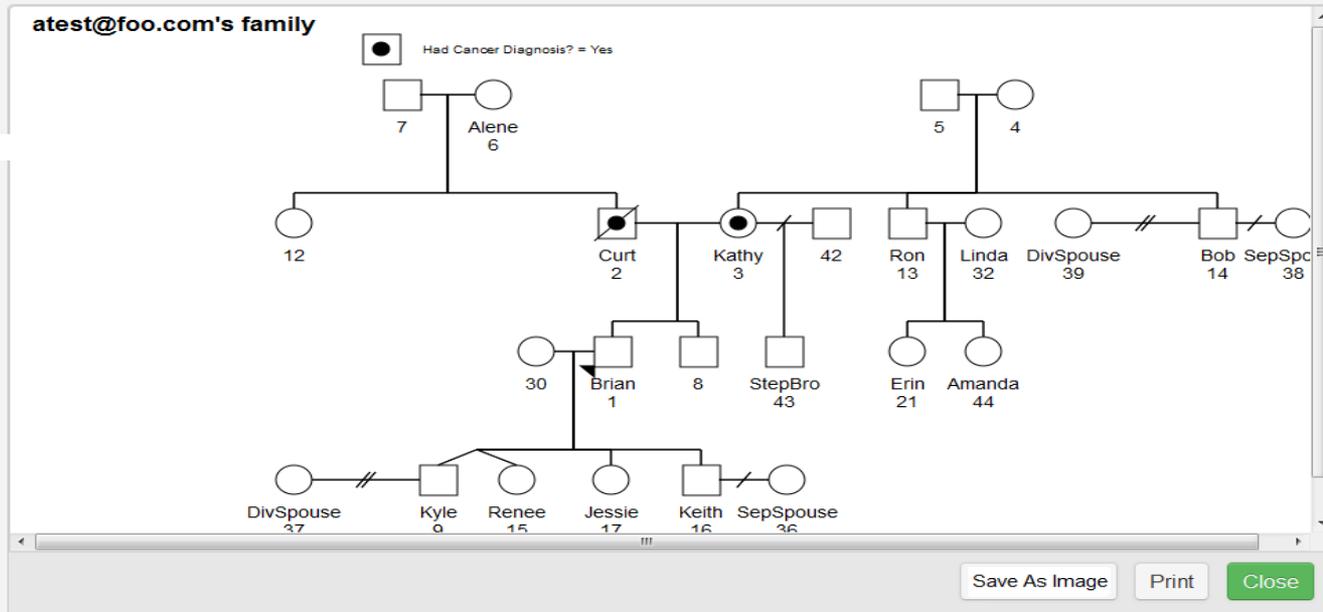
<< Previous

Next >>

Patient enters information about each family member

Family History Questionnaire

Step 9 of 9



Patient can print or save their pedigree when completed

PROGENY CLINICAL

My Patients

Search: Q

Only Probands ▼ + New Patient

	Last Name	First Name	MRN#	DOB	Referral?	Appt Date	Last Modified
Actions ▼	Johnson	Ann	2685874	07/06/1952	Yes	07/12/2015	06/22/2015
Actions ▼	Cavallo	Michael	3685428	08/13/1948	Yes	07/05/2015	06/22/2015
Actions ▼	Barrington	Jill	2458754	09/16/1972	No	06/29/2015	06/19/2015

- Open Datasheet
- Open Pedigree**
- Invite Patient
- View Risk Report
- Delete Patient
- Order Test
- View Order Status
- Previous

After the patient completes the questionnaire, an email notifies the clinician, who can login to Progeny and review the pedigree.

The screenshot displays the Progeny Risk2 web application. On the left, the 'Pedigree Viewer' shows a family tree for 'Jamie2 1/6/16'. A legend indicates that a pink square represents 'Breast' cancer and a black square with a white cross represents 'Cancer History: Cancer Diagnosis = Base'. The patient is highlighted in the pedigree. On the right, the 'Patient Info' and 'Cancer History' tabs are active. The 'Cancer History' section includes a table with the following data:

Cancer Diagnosis	Diagnosis Age	Cancer confirmed/reported	Pathology	Diagnosis Comments
Breast	65	Confirmed by records	Reported	

Below the table, there are sections for 'Breast Tumor Markers' and 'Colon Tumor Markers', each with a grid of input fields for various biomarkers (ER, PR, HER2, CK14, CK5.6, MLH1, MSH2, MSH6, PMS2, MSI).

The pedigree opens and highlights the patient with their data on the right. You can add additional data to assist with determining appropriate testing

Pedigree Viewer

Calculate Save Report Current PDF

Validation Errors

Cancer Risk 8

	5YR	LIFE
BREAST		
GAIL	0.2%	10.9%
BRCAPRO	17.9%	71.9%
TYRER-CUZICK	7.7%	50.2%
OVARIAN		
BRCAPRO	2.0%	51.4%
COLORECTAL		
MMRPRO	0.0%	3.2%
ENDOMETRIAL		
MMRPRO	0.0%	2.0%
MELANOMA		
MELAPRO	0.2%	1.9%
PANCREATIC		
PANCPRO	0.0%	1.3%

Mutation Probabilities 16

Risk Assessment Settings

Display the following risk assessment models:

- BRCAPro
- MMRPro
- PancPro
- MelaPro
- Tyrer-Cuzick
- Premm
- Gail

Only models that have been configured can be chosen. [Configure Risk Models](#)

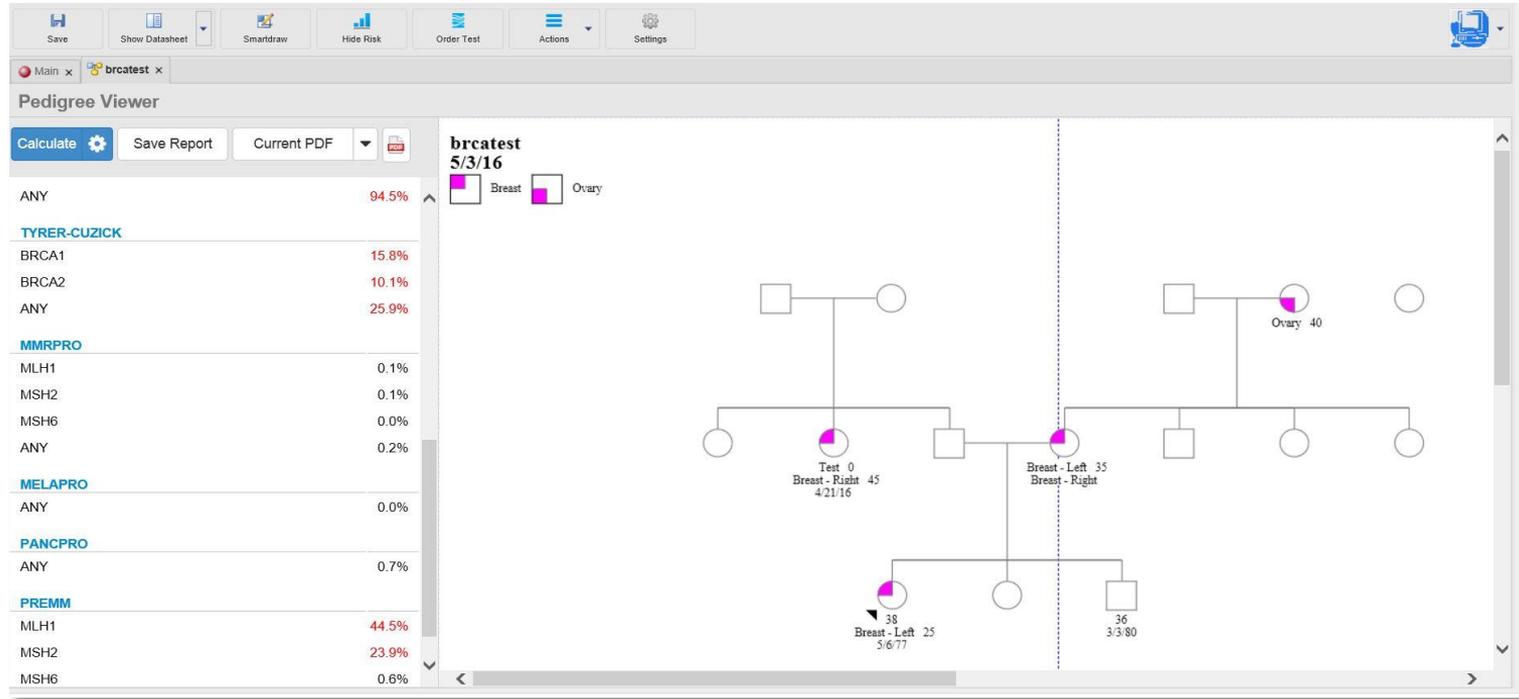
Risk Threshold: 20 % Cancer 10 % Mutation

Reporting: Display data inputs

Do not show this dialog again

Cancel Continue

Run risk models to determine lifetime risk of diseases such as breast, ovarian, colon, and other cancers



Run risk models to determine mutation probabilities

Risk Assessment Report

11/23/2015

. Smith
Date of Birth : 01/11/1971
MRN : Stephanie

Cancer Risk

BREAST	5 Year	Lifetime
BRCAPRO	3.0%	20.4%

OVARIAN	5 Year	Lifetime
BRCAPRO	0.4%	6.7%

COLORECTAL	5 Year	Lifetime
MMRPRO	0.0%	3.2%

ENDOMETRIAL	5 Year	Lifetime
MMRPRO	0.0%	1.9%

MELANOMA	5 Year	Lifetime
MELAPRO	0.1%	1.7%

PANCREATIC	5 Year	Lifetime
PANCPRO	0.0%	1.3%

Mutation Probabilities

BRCAPRO	
BRCA1	5.4%
BRCA2	8.7%
ANY	14.2%

MMRPRO	
MLH1	0.0%
MSH2	0.0%
MSH6	0.0%
ANY	0.1%

MELAPRO	
ANY	0.0%

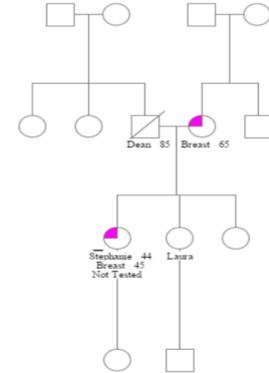
PANCPRO	
ANY	0.5%

Smith, Stephanie
11/22/15

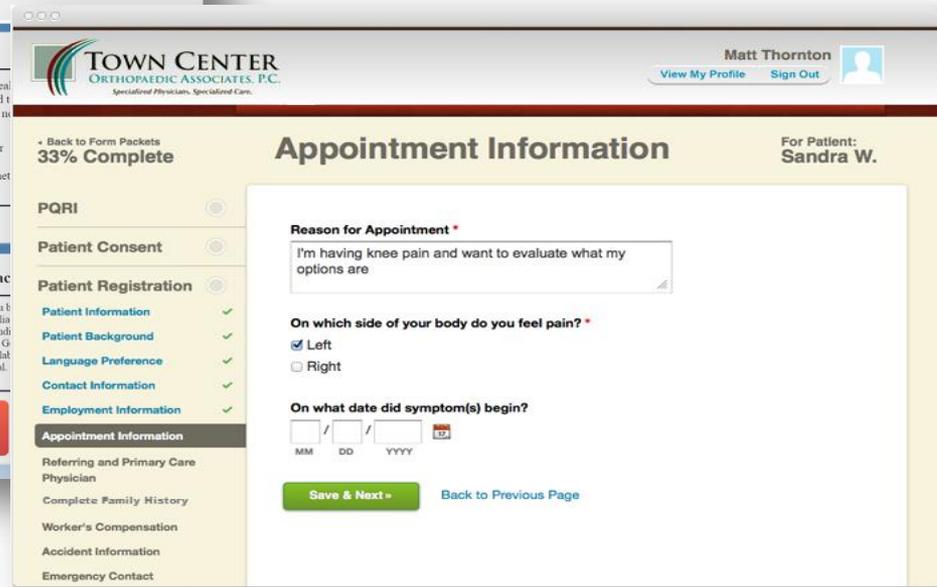
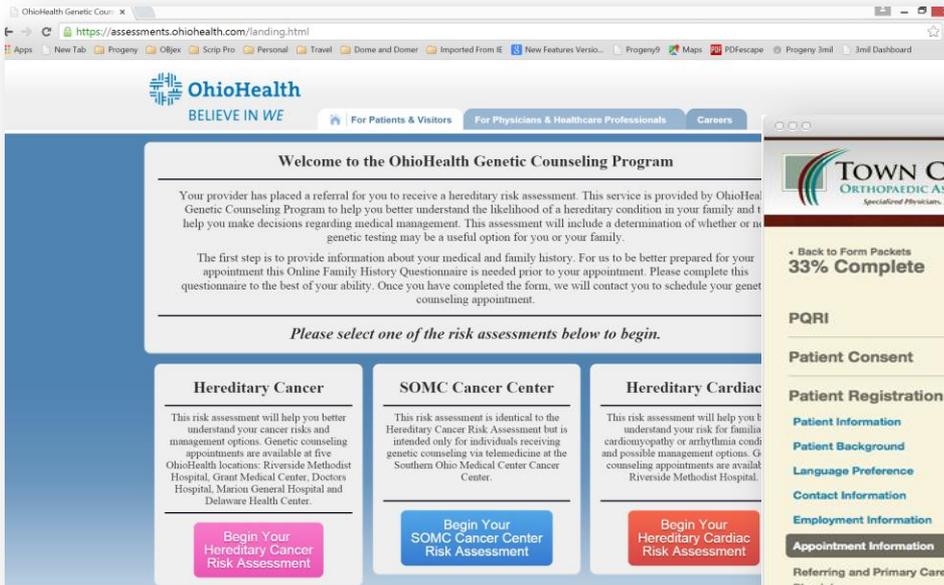
 Breast

Paternal Ancestry
English

Maternal Ancestry
Czech, Danish



Create a pdf report of the Risk results and upload into your EMR if desired.



Besides offering iPads/kiosks in the waiting room, you can also link to the questionnaire from your website or even patient portal

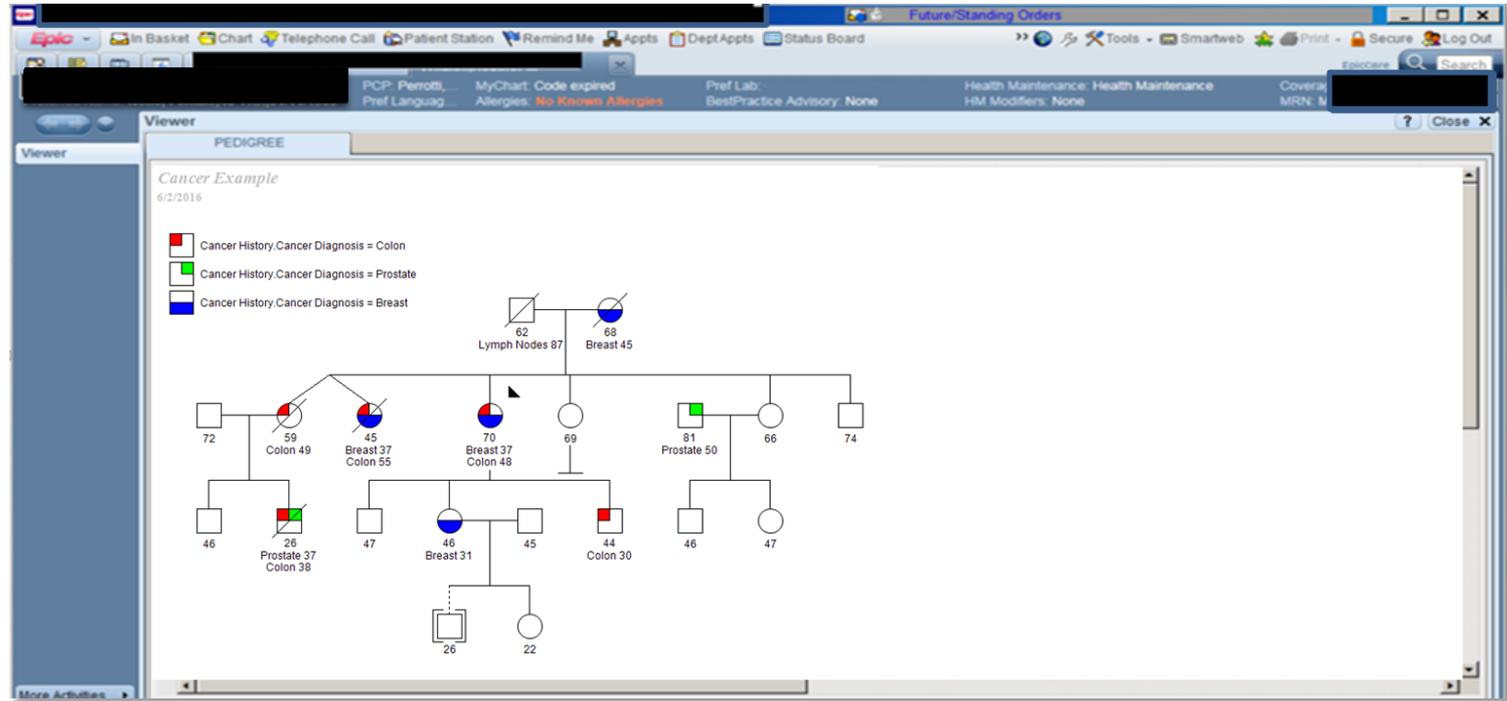
The screenshot shows a web browser window with the URL `risk.progenygenetics.com/Risk2/`. The browser's address bar and tabs are visible. Below the browser, there is a toolbar with various icons for editing and saving. The main content area displays a spreadsheet titled "Individual Spreadsheet" with the following data:

Pedigree Name	Name: First	Name: Last	Date of Birth	Cancer History?	Cancer History Car	Cancer History Dia	Cancer History Dia	Cancer History Car	Cancer History Pat
Jamie					Colon	40			
Victor FHQ Test 2	Prog	Person	2008 Nov 12	Yes	Anus	44334	Test		
					Adrenal	3	dsfa		
Jamie2					Breast	45			
Vic Move Test			1993 Nov 11		Breast - Right	32	Reported	Adenocarcinoma	
					Brain	45			
Admin Test					Ampulla of Vater				
Jamie3	Jamie	Tester	1984 Jan 23		Breast - Both	50			
Jamie1113's family				Yes	Adrenal				
jtestingbreast's fam	Jennifer	Rigdon			Acoustic Neuroma				
					Ampulla of Vater				
jtestingful's family				Yes	Bladder	45			
Simpson Anna	Anna	Simpson	1971 Jan 11	Yes	Breast	41	Confirmed by recor		
Zach	Zach	Eaton	1989 Dec 6	Yes	Breast - Left	45			

Reporting module allows you to query data about all your patients

	Enc. Date	Enc. Type	Description	Status	Department	Speciality	Chief Complaint	Encounter Provider
Synopsis	06/13/2016	Appointment			YNH SMILOW DE	Oncology		Silber, Andrea L, M
History	06/13/2016	Appointment			YNH DRAW STATI			
History	01/06/2016	Telephone		Open	NE PM INT MED S	Internal Med		Manchet, Julie, RN
Allergies	01/06/2016	Office Visit	Annual physical exam (Primary Dx); Aden...	Closed	NE PM INT MED S	Internal Med	ANNUAL EXAM	Manchet, Kenneth
Problem List	12/14/2015	BLOOD DRAW	Adenocarcinoma of sigmoid colon, Family...		YNH DRAW STATI			
Medications	12/14/2015	Clinical Support		Closed	YNH SMILOW DE	Oncology		
Immunizations	12/14/2015	Office Visit	Adenocarcinoma of sigmoid colon (Primar...	Closed	YNH SMILOW DE	Oncology	FOLLOW-UP VISIT	Silber, Andrea L, M
Immunizations	12/11/2015	Appointment	Canceled (Change of Provider)		YNH SMILOW DE	Oncology		Jain, Kevin R, MD
Immunizations	12/11/2015	Appointment	Canceled (Change of Provider)		YNH DRAW STATI			
Demographics	11/24/2015	Orders Only	Family history of malignant neoplasm of br...	Closed	YNH SMILOW BR	Oncology		Hofstatter, Erin W
Demographics	11/19/2015	Appointment	Canceled (Provider)		YNH SMILOW GY	Oncology		Ratner, Elena S, M
Demographics	11/05/2015	Office Visit	Adenocarcinoma of sigmoid colon (Primar...	Closed	YNH SMILOW GY	Oncology	FOLLOW-UP	Ratner, Elena S, M
Demographics	10/26/2015	Telephone	Other	Closed	YMG SMILOW CA	Genetics	OTHER	Neogi, Arpta, MS
Demographics	10/26/2015	Telephone	Other - Test Cancellation	Closed	YMG SMILOW CA	Genetics	OTHER	Neogi, Arpta, MS
Demographics	10/15/2015	Initial consult	Colon cancer (Primary Dx); Family history...	Closed	YMG SMILOW CA	Genetics	COLON CANCERCO	Neogi, Arpta, MS
Demographics	10/13/2015	Telephone	Appointment - called to confirm appointment	Closed	YMG SMILOW CA	Genetics	APPOINTMENT	James, Angela
Demographics	10/06/2015	Office Visit	Vaginal adhesions (Primary Dx)	Closed	YNH SMILOW GY	Oncology		Azodi, Masoud, M
Demographics	10/01/2015	Appointment	Canceled (Other)		YMG SMILOW CA	Genetics		Neogi, Arpta, MS
Demographics	10/01/2015	Telephone	Appointment - Cancelled	Closed	YMG SMILOW CA	Genetics	APPOINTMENT	Neogi, Arpta, MS
Demographics	09/30/2015	Telephone	Appointment - Confirm	Closed	YMG SMILOW CA	Genetics	APPOINTMENT	Neogi, Arpta, MS
Demographics	09/21/2015	Lab	Unspecified hypothyroidism; Routine gene...		GH LAB OUTREA			
Demographics	09/21/2015	Clinical Support	Unspecified hypothyroidism (Primary Dx);	Closed	NE PM INT MED S	Internal Med		Manchet, Kenneth
Demographics	09/19/2015	Telephone	Appointment - Scheduled	Closed	YMG SMILOW CA	Genetics	APPOINTMENT	Briefley, Kanna, M
Demographics	06/17/2014	Documentation			YMG DOCUMENTRY	Documentation		Leah, Thomas, M

Integrate with your EMR by providing a hyperlink to embed in the patient record



When you click the hyperlink, it opens a window right within the EMR screen of the patient's pedigree

FEATURES/BENEFITS

- Capture family history data before the clinic visit
- Identify at-risk individuals of your patient population
- Interface with validated risk assessment models to identify inherited risk and improve patient outcomes
- Reduce costs and increase productivity by handling more patients per Genetic Counselor
- No more time consuming and costly data entry - you can focus your time on analysis and consultation
- Automatically draws family pedigree without having to draw by hand
- Order genetic testing and track results seamlessly within the software
- After gathering data from questionnaire, the pedigree and medical history can be accessed, analyzed and modified as a permanent record moving forward
- Integrate with your existing EMR
- Flexible Reporting
- Easily query for data you need for reporting requirements.

ABOUT PROGENY

- Installed at 46 of the top 50 hospitals in the United States (*US News and World Report 2015*)
- Installed in over 2000 sites and 78 countries worldwide since 1996
- Capable of integrating with any EMR system
- Acquired by Ambry Genetics in April of 2015

CONTACT US

QUESTIONS?

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