Table S1. Univariable analysis of perceived risk, patient experience & understanding, and knowledge.

Covariate	Experience & Understanding		Perceived Risk		Knowledge	
	β (95% CI)	p-value	β (95% CI)	p-value	β (95% CI)	p-value
Group		**<0.001**		0.45		**0.009**
GMT	Reference		Reference		Reference	
OMT	−1.73 (−2.44, −1.01)		−4.6(−16.41, 7.21)		−1.03 (−1.79, −0.26)	
Diagnosis		0.84		0.42		0.39
Breast	Reference		Reference		Reference	
Ovarian	0.09(−0.74, 0.92)		5.15(−7.46, 17.77)		−0.36 (−1.19, 0.47)	
Age at diagnosis	−0.02(−0.05, 0.01)	0.28	−0.02(−0.54, 0.5)	0.93	−0.006 (−0.004, 0.03)	0.72
Family History		0.39		**<0.001**		0.92
No	Reference		Reference		Reference	
Yes	−0.34(−1.11, 0.43)		20.31(9.13, 31.48)		−0.04 (−0.81, 0.73)	

Total sample size of n=120

Table S2. Univariable analysis of domains of the PAHC tool.

Covariate	Hereditary Predisposition		Practical & Social Issues		Family Issues		Living with Cancer		General Emotions		Child-related Issues		Any	
	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value
Group		**0.005**		0.14		0.17		0.1		**0.008**		0.33		0.1
GMT	Reference		Reference		Reference		Reference		Reference		Reference		Reference	
OMT	0.31 (0.14, 0.71)		−0.12 (−0.28, 0.04)		0.23 (0.03, 1.91)		2.29 (0.85, 6.18)		2.94 (1.33,6.47)		0.11 (−0.11, 0.32)		2.61 (0.82, 8.32)	
Diagnosis		0.92		0.17		0.7		0.55		0.37		0.41		0.66
Breast	Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Ovarian	1.04 (0.47, 2.34)		0.12 (−0.05, 0.29)		0.75 (0.18, 3.19)		1.32 (0.53, 3.32)		0.69 (0.31,1.55)		0.1 (−0.14,0.33)		0.78 (0.262.34)	
Age at diagnosis		0.79		0.1		0.08		0.98		0.06		0.07		0.05
	1.00 (0.96, 1.03)		0.97 (0.93, 1.01)		0.95 (0.89, 1.01)		0.98 (0.94, 1.02)		0.97 0.94,1.0)		−0.009 (−0.02, 9e-03)		0.96 (0.91, 1.0)	
Family History		0.65		0.14		0.77		0.85		0.36		0.59		0.31
No	Reference		Reference		Reference		Reference		Reference		Reference		Reference	
Yes	0.84 (0.4, 1.77)		−0.12 (−0.28, 0.04)		1.24 (0.29, 5.21)		1.08 (0.45, 2.59)		0.7 (0.33,1.48)		−0.06 (0.28, 0.16)		1.64 (0.63, 4.23)	

Total sample size of n=120

Table S3. Multivariable analysis for Select Domains of the PAHC tool.

Covariate	OR	95% CI	*p*-value
PRACTICAL & SOCIAL ISSUES DOMAIN			
Group			0.08
GMT	Reference		
OMT	0.39	0.13, 1.12	
Diagnosis			**0.04**
Breast	Reference		
Ovarian	3.71	1.04, 13.25	
Age at diagnosis	0.94	0.9, 0.99	**0.01**
Family history			0.26
No	Reference		
Yes	0.59	0.24, 1.48	
FAMILY ISSUES DOMAIN			
Group			0.08
GMT	Reference		
OMT	0.91	0.83, 1.01	
Age at diagnosis	0.997	0.995, 0.999	**0.04**
GENERAL EMOTIONS DOMAIN			
Group			**0.01**
GMT	Reference		
OMT	1.27	1.05, 1.53	
Age at diagnosis	0.99	0.99, 1.0	0.11
ANY DOMAIN			
Group			0.19
GMT	Reference		
OMT	1.1	0.95, 1.27	
Age at diagnosis	0.99	0.99, 1.0	0.07

Total sample size of n=120

Table S4. Survey 2 Participant Demographics and Survey Responses.

Covariate	Full Sample (n = 89)	GMT (n = 60)	OMT (n = 29)	p-value
Marital Status[a] (%)				0.67
In a Relationship	6 (6.8)	5 (8.5)	1 (3.5)	
Married/Common-Law	52(59.1)	33 (55.9)	19 (65.5)	
Single/Widowed	30 (34.1)	21 (35.6)	9 (31.0)	
Education Level[a] (%)				0.97
Elementary/Middle S	3 (3.4)	1 (1.7)	2 (6.9)	
High School	12 (13.6)	8 (13.6)	4 (13.8)	
Certificate Program	6 (6.8)	5 (8.5)	1 (3.4)	
College/University	46 (52.3)	32 (54.2)	14 (48.3)	
Post-Graduate	21 (23.9)	13 (22.0)	8 (27.6)	
Diagnosis (%)				0.94
Breast	25 (28.1)	17 (28.3)	8 (27.6)	
Ovarian	64 (71.9)	43 (71.7)	21 (72.4)	
Age at diagnosis				0.35
Mean (sd)	57.8 (11.2)	58.7 (10.6)	55.9 (12.0)	
Median (Min,Max)	57 (24,78)	57.5 (33, 78)	56. (24,78)	
Family history of BR/OV cancer (%)				0.72
No	33 (37.1)	23 (38.3)	10 (34.5)	
Yes	56 (62.9)	37 (61.7)	19 (65.5)	
Ethnicity				0.07
African	1 (1.0)	1 (1.7)	0 (0)	
Ashkenazi Jewish	7 (7.9)	6 (10.0)	1 (3.4)	
Asian	8 (9.0)	7 (11.6)	1 (3.4)	
Caucasian	59 (66.2)	36 (60)	23 (79.6)	
East Indian	4 (4.5)	3 (5.0)	1 (3.4)	
Hispanic	2 (2.2)	1 (1.7)	1 (3.4)	
Middle Eastern	3 (3.5)	2 (3.3)	1 (3.4)	
Mixed	1 (1.1)	1 (1.7)	0 (0)	
West Indies	2 (2.2)	1 (1.7)	1 (3.4)	
Missing/Unknown	2 (2.2)	2 (3.3)	0 (0)	
Knowledge Score				0.34
Median (Min,Max)	8 (2,11)	9 (2,11)	8 (3,11)	
Mean (sd)	8.1 (2.0)	8.2 (2.0)	7.9 (2.0)	
MICRA Total Score				0.53
Median (Min,Max)	15 (0,75)	15 (0,71)	16 (0,75)	
Mean (sd)	18 (15)	16.9 (13.6)	20.3 (17.6)	
Distress subscale				0.58
Median (Min,Max)	0 (0,30)	0 (0,22)	0 (0,30)	
Mean (sd)	2.9 (5.7)	2.3 (4.5)	4.1 (7.5)	
Uncertainty subscale				0.85
Median (Min,Max)	6 (0,35)	6 (0,35)	6 (0,34)	
Mean (sd)	8.9 (8.6)	8.4 (7.8)	9.9 (10.1)	
Positive Experience subscale				0.51
Median (Min,Max)	15 (0,20)	16 (0,20)	13 (5,20)	
Mean (sd)	14.1 (5.5)	14.3 (5.6)	13.7 (5.3)	
Correct recall of genetic test result[b] (%)	86 (97.7)	59 (98.3)	27 (96.4)	0.54
Discussed result with a relative	84 (94.4)	57 (95.0)	27 (93.1)	0.66

[a] Response missing for 1 GMT participant; [b] Response missing for 1 OMT participant

Table S5. Multivariable analysis for changes in knowledge scores.

Covariate	β	95% CI	*p*-value
Group			**0.035**
GMT	Reference		
OMT	0.95	0.06,1.83	
Diagnosis			0.57
Breast	Reference		
Ovarian	−0.27	−1.21, 0.67	
Age at diagnosis	−0.03	−0.07, 0.008	0.12
Family history			0.85
No	Reference		
Yes	0.008	−0.79, 0.96	

Total sample size of $n = 89$

Table S6. Univariable analysis of MICRA questionnaire.

Covariate	Total		Distress		Uncertainty		Positive Experience	
	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value	β (95% CI)	*p*-value
Group		0.33		0.15		0.39		0.59
GMT	Reference		Reference		Reference		Reference	
OMT	3.33 (−3.33, 9.99)		1.82 (−0.68, 4.32)		1.67 (−2.14, 5.47)		−0.66 (−3.09, 1.77)	
Diagnosis		0.71		0.74		0.61		0.45
Breast	Reference		Reference		Reference		Reference	
Ovarian	1.33 (−5.65, 8.3)		0.44 (−2.19, 3.07)		−1.04 (−5.02,2.94)		−0.98 (−3.51, 1.55)	
Age at diagnosis	0.05 (−0.23, 0.33)	0.75	−0.003 (−0.11, 0.1)	0.96	−0.02 (−0.18, 0.14)	0.81	−0.05 (−0.16, 1.05)	0.29
Family History		0.47		0.82		0.87		**0.02**
No	Reference		Reference		Reference		Reference	
Yes	2.37 (−4.11, 8.84)		0.29 (−2.17, 2.74)		0.32 (−3.4, 4.03)		−2.72 (−5.01, −0.44)	

Total sample size of n=89

Table S7. Modified PAHC Tool.

You have been offered genetic testing because of your diagnosis of cancer. Please answer the following quesiton about your thoughts on genetic testing by placing a box in the appropriate box below[a]:	
Domain & Items	**Cronbach's α**
ereditary Predisposition Domain	**0.88**
I am worried about the chance of finding out that I am a carrier of a genetic mutation.	
I am worried about having to make a decision about possible risk reducing options (e.g. preventive surgery or high risk screening).	
I am worried about how I will cope with my genetic test results.	
ractical Issues Domain	**0.69**

. I am worried about how my genetic test results will impact my daily life (at home, at work, at school, or with hobbies).	
I am worried about how my genetic test results will impact my ability to obtain life insurance.	
amily Problems Domain	**0.60**
I feel misunderstood by my family and/or friends regarding my decision to have genetic testing.	
I am bothered by the lack of support regarding my decision to have genetic testing from my family and/or friends.	
. I am worried about my family's ability to function because of my decision to have genetic testing.	
I feel genetic testing may benefit my family members. [not scored]	
I am worried about contacting family members about my genetic test results.	
I feel burdened by a sense of responsibility towards my family about my decision to have genetic testing.	
Living with Cancer Domain	**0.76**
I am burdened by my cancer diagnosis or cancer treatment.	
ı. I am worried about the chance of getting a **new** diagnosis of cancer.	
I feel that genetic testing can help me understand why I developed cancer. [not scored]	
I am worried about the chance that my family members will get cancer.	
eneral Emotions Domain	**0.89**
. I feel anxious.	
I feel insecure about the future.	
I have questions about life and death.	
I feel depressed.	
I feel glad that I am having genetic testing. [not scored]	
hild-Related Issues Domain	**0.77**
you have children, please answer the following questions:	
. I feel guilty about the chance of passing on a genetic mutation to my children.	
I am worried about telling my children about my genetic test results.	
. I am worried about the chance that my children may develop cancer.	

[a]Participants were provided with 'Not at all', 'A Little', 'Quite a Bit' or 'Very Much', which were coded as 1, 2, 3, or 4, respectively.