Appendix Table 1. Electronic Health Records Attitudes Survey: Questions Regarding Family History or Genetic Information in the Electronic Health Record

Su	rvey question	Strongly	Agree	Neutral	Disagree	Strongly
		agree				disagree
1.	Details of my family history of medical conditions	1	2	3	4	5
	should be included in my electronic health record.					
2.	My genetic information should be included in my		2	3	4	5
	electronic health record.					
3.	I believe that incorporating my genetic		\square_2	3	4	5
	information into the electronic health record will					
	enable tailored medical therapy that takes into					
	consideration my unique genetic make-up.					
4.	If you were tested for genetic risk of a medical					
	condition, would you agree to automated					
	notifications of test results to:					
	a. Your siblings	1	2	3	4	5
	b. Your parents	1	2	3	4	5
	c. Your children	1	2	3	4	5
	d. Other relatives	1	2	3	4	5
5.	If you underwent a genetic test, would you grant	1	2	3	4	5
	medical insurance companies access to your					
	genetic test results?					
	<i>Notes:</i> The first half of the survey contained	5 statement	s. Participa	ints were aske	ed to indicate	e the
		- 11 .	1	1 •	1	

importance of each statement. Statements 1-5 addressing attitudes towards incorporation and use of family history and genetic risk information were assessed after risk disclosure; statements 1, 4, and 5 are adapted from the HINTS 2013 survey, and statements 2 and 3 are novel to help determine participants' views regarding inclusion and use of personal genetics in their EHR.

Appendix Table 2. Electronic Health Records Attitudes Survey: Questions Regarding Other Medical Information in the Electronic Health Record

	Very	Somewhat	Not at all	
	important	important	important	Don't know
6. Doctors and other healthcare providers should	mportant	mportant	important	
be able to share your medical information with				
each other electronically.			3	L4
caen other electromeany.	Very	Somewhat	Not at all	
	confident	confident	confident	
7 How confident are you that safeguards	connuent	connuent	connuent	
7. How confident are you that safeguards				
(including the use of technology) are in place to		2	3	
protect your medical records from being seen by				
people who aren't permitted to see them?	N7	NT-		
	Yes	No		
8. Have you ever kept information from your				
healthcare provider because you were concerned		\square_2		
about the privacy or security of your medical				
record?				
	Very	Somewhat	Not	
	concerned	concerned	Concerned	
9. If your medical information is sent				
electronically from one healthcare provider to				
another, how concerned are you that an		\square_2		
unauthorized person would see it? (Electronically				
means from computer to computer, instead of by				
telephone, mail, or fax machine).				
	Strongly	Somewhat	Somewhat	Strongly
	agree	agree	disagree	disagree
10. In general, I think that the information I give		\square_2		\Box_4
doctors is safely guarded.				L4
	Very	Somewhat	Not	
	confident	confident	confident	
11. How confident are you that you have some				
say in who is allowed to collect, use and share				
your medical information? Having a say in who				
can collect, use and share your medical			3	
information has to do with the privacy of your				
records.				
	Very	Somewhat	Not	
	concerned	concerned	Concerned	

12. If your medical information is sent by fax from one healthcare provider to another, how concerned are you that an unauthorized person would see it?	1	2	3	
	Strongly	Somewhat	Somewhat	Strongly
	agree	agree	disagree	disagree
13. Scientists doing research should be able to review my medical information if the information cannot be linked to me personally.	1	2	3	4
	Very	Somewhat	Not at all	Don't know
	important	important	important	
14. How important would it be for you to get your own medical information electronically?	1	2	3	4

The second half of the survey contained 9 statements. Participants were asked to indicate the importance of each statement. Statements 6-14 addressing attitudes towards incorporation and use of other medical personal health information in the EHR were assessed at baseline and after risk disclosure; statements 6-9, 11-12, and 14 are taken from the HINTS 2011 survey; statements 10 and 13 are from the HINTS 2007 survey.

Appendix Figure 1. Coronary heart disease (CHD) genetic risk report displayed in the patient portal.

Notes: Each patient's genetic risk report is privately and securely accessible through their individual confidential patient portal at www.mayoclinic.org. The report includes the note: "Risk for CHD is probabilistic, not deterministic". This is also explained to patients. References are provided for those who desire to learn more about the score.

	es and Hospital Summaries	14 Submit		
	Title	Result Type	Provider	
/2014	Cardiovascular Specialty Evaluation	Clinical Note	Tronidor	
/2014	Research Consent	Clinical Note		
/2014	Sent Out Lab Test Report	Clinical Note		
Clinic	Coronary Heart Dise	ase Genetic	r Risk Rep	ort
Nam		Birthdate: Date:		
Age:				
		Provider:		
Gend		Service:	Cardiovascular	Diseases
The	der: 5 patient was genotyped for 28 single nuc coronary heart disease (CHD).	Service: leotide polymorp	hisms (SNPs) as	
The with Gene	der: Society of the standard stand Standard standard st Standard standard stand Standard standard stan	Service: leotide polymorp 1.4	hisms (SNPs) a:	
The with Generation	der: 5 patient was genotyped for 28 single nuc coronary heart disease (CHD).	Service: leotide polymorp 1.45 10%	hisms (SNPs) a:	
The with Generation	der: S patient was genotyped for 28 single nuc coronary heart disease (CHD). etic Risk Score (GRS): ear probability of CHD (FRS):	Service: leotide polymorp 1.45 10%	hisms (SNPs) a:) 6	
The j with Gene 10-ye Over Fam Smo Inter risk f selec asso	der: S patient was genotyped for 28 single nuc coronary heart disease (CHD). etic Risk Score (GRS): ear probability of CHD (FRS): rall 10-year probability of CHD (FRSxG	Bervice: leotide polymorp 1.43 109 RS): 14.9 N Initial study visit. P: 141; DBP: 93; H n average, this pal stic, not determinis pociation studies (i ls. ^{1,2} The genetic	hisms (SNPs) a:	No No bigher genetic s for CHD were ig the variants s calculated as

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C4D Group. A genome-wide association study in Europeans and south Asians identifies five new loci for coronary artery disease. Nat Genet. 2011; 43:339-344
Ding K et al. Genotype-informed estimation of risk of coronary heart disease based on genome-wide association data linked to the electronic medical record. BMC Cardiovasc Disord. 2011 Nov 3;11:66.
Wilson PW et al. Prediction of coronary heart disease using risk factor categories. Circulation. 1998; 12;97(18):1837-47.