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GENETICS AND GENOMICS IN NURSING PRACTICE SURVEY

Dear Registered Nurse:

You are invited to take a survey that will evaluate primary issues in genetics and genomics. As the front line of care, nurses have a central role in seeing that genetic and genomic discoveries lead to disease prevention and population health improvements. We will evaluate a general assessment of your knowledge. Knowing your baseline knowledge will help you determine your learning needs.

Before choosing to participate, please consider that:

- You have been invited to complete this survey because you are a registered nurse. Questions in the survey relate to your current practices, knowledge and opinions about implications of genetic and genomic medicine for preventing and treating common diseases such as cancer, diabetes and heart disease.
- The survey will take about 15-20 minutes to complete.
- Your participation in this survey is completely voluntary and you can choose to skip any questions that you do not wish to answer.
- There are no risks, penalties, or costs to your participation. There are no direct benefits to your participation other than contributing to research.
- Many of the questions relate to your attitudes about genetics and genomics for which there are no right or wrong answers.
- All information you provide is anonymous.

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Today's date:	/ /	/
J	(Month/Day/Year)	

1. How important do you think it is for the nurse to become more educated about the genetics of common diseases?

☐ Very important	<p1-1a> 0</p1-1a>
☐ Somewhat important	<p1-1b> 1</p1-1b>
☐ Not very important	<p1-1c> 2</p1-1c>
☐ Not at all important	<p1-1d> 3</p1-1d>
□ Neutral	<p1-1e> 4</p1-1e>
□ Not sure/Don't know	<p1-1f> 999</p1-1f>

2. Please indicate whether you think each of the following would be a potential advantage of integrating genetics of common diseases into your practice.

	No Advantage	Advantage	
	<0>	<1>	
Better treatment			
decisions (e.g., which			<p1-2a></p1-2a>
drugs to prescribe)			
Improved services to			<p1-2b></p1-2b>
the patients			<p1-20></p1-20>
Better adherence to			
clinical			<p1-2c></p1-2c>
recommendations			<f1-2c></f1-2c>
among patients			

3. Please indicate whether you think each of the following would be a potential disadvantage of integrating genetics of common diseases into your practice.

	No Disadvantage	Disadvantage	
Would take too much	<0>	<1>	<p1-3a></p1-3a>
Not reimbursable/Too costly			<p1-3b></p1-3b>
Need to "re-tool" professionally			<p1-3c></p1-3c>
Increase patient anxiety about risk			<p1-3d></p1-3d>
Would increase insurance discrimination			<p1-3e></p1-3e>

PART TWO

1. Each of the following statements relates to the genetics of common diseases and family history taking. By common diseases, we are referring to disorders that arise as a result of interactions between an individual's environment and his or her unique genetic makeup. Common diseases include diseases such as cancer, heart disease, and diabetes. Please indicate how confident you are that you can do each of the following:

and you can do each of the following.	Not at all	Confident	
	confident		
	<0>	<1>	
Decide what family history information is needed to			<p2-1a></p2-1a>
tell something about a patient's genetic susceptibility			
to common diseases.			
Discuss how family history affects recommended screening intervals.			<p2-1b></p2-1b>
Decide which patients would benefit from a referral			<p2-1c></p2-1c>
for genetic counseling and possible testing for			
susceptibility to common diseases.			
Access reliable and current information about	П		<p2-1d></p2-1d>
genetics and common diseases.			
Give patients information about the risks of genetic	П		<p2-1e></p2-1e>
testing for common diseases.			
Give patients information about the benefits of	П		<p2-1f></p2-1f>
genetic testing for common diseases.			
Give patients information about the limitations			<p2-1g></p2-1g>
of genetic testing for common diseases.			
Facilitate referrals for genetic services for			<p2-1h></p2-1h>
common diseases.	J		

2. Please indicate whether you agree or disagree with the following statements.

	Agree <0>	Disagree <1>	Don't know <2>	
A family history that includes only 1 st degree relatives such as parents, siblings, and children should be taken for every new patient.				<p2-2a> KN</p2-2a>
A family history that includes 2 nd and 3 rd degree relatives such as grandparents, aunts, uncles, and cousins should be taken for every new patient.				<p2-2b> KN</p2-2b>
Family history taking should be a key component of nursing care.				<p2-2c> KN</p2-2c>
There is a role for nurses in counseling patients about genetic risks.				<p2-2d> KN</p2-2d>

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1. Are you actively taking care of patients? Yes	<p3-1a> 0</p3-1a>
☐ No (If NO skip to PART FOUR)	<p3-1b> 1</p3-1b>
2. In the past three months, how often have you collected a comp that includes the following components: information on disorders diagnosis and death for each affected family member?	• • •
□ Always	<p3-2a> 0</p3-2a>
☐ Often	<p3-2b> 1</p3-2b>
Occasionally	<p3-2c> 2</p3-2c>
☐ Rarely or Never	<p3-2d> 3</p3-2d>
3. In the past three months, has any patient initiated a discussion	with you about genetics?
☐ Yes	<p3-3a> 0</p3-3a>
□ No	<p3-3b> 1</p3-3b>

4. Thinking specifically about patients that you have seen in the past three months, please answer the following questions.

	Never <0>	Rarely <1>	Occasionally <2>	Frequently <3>	
In the past 3 months, how often have you used family history information when facilitating clinical decisions or recommendations for your patients?					<p3-4a></p3-4a>
In the past 3 months, how often have you facilitated referrals to genetic services?					<p3-4b></p3-4b>

PART FOUR

1. Do you think that genetic risk (e.g., as indicated by family history) has clinical relevance for the following:

	Not At All <0>	Somewhat <1>	A Great Deal <2>	
Breast cancer				<p4-1a> KN</p4-1a>
Colon cancer				<p4-1b></p4-1b>
Coronary heart disease				<p4-1c> KN</p4-1c>
Diabetes				<p4-1d> KN</p4-1d>

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Ovarian cancer			<p4-1f> KN</p4-1f>

2. When patients indicate **a disorder in the family**, which of the following pieces of information do you collect in your standard family history assessment? Each family member's:

	Never	Sometimes	Always	
	<0>	<1>	<2>	
Age at diagnosis of condition				<p4-2a></p4-2a>
Relationship to the patient				<p4-2b></p4-2b>
Race or ethnic background				<p4-2c></p4-2c>
Age at death from condition				<p4-2d></p4-2d>
Both sides of the family (maternal/paternal)				<p4-2e></p4-2e>

3. Thinking about how you support clinical decisions (such as administering drugs prescribed), how important do you think each of the following is to consider?

	Not at all	Essential <2>	Don't know <3>	
Genetic Test Result				<p4-3a></p4-3a>
Family history				<p4-3b></p4-3b>

PART FIVE

The first group of questions is about human genetic variation. Please check the answer that indicates whether the statement is true, false or you do not know.

☐ true	<p5-1a-0></p5-1a-0>
☐ false	<p5-1b-1></p5-1b-1>
☐ don't know	<p5-1c-999></p5-1c-999>

☐ true <P5-2a-0>
☐ false <P5-2b-1>
☐ don't know <P5-2c-999>

PART SIX

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☐ Yes				<p6-1a></p6-1a>	
□ No				<p6-1b2< th=""><th>> 1</th></p6-1b2<>	> 1
2.	F114	C1	D	\neg	
	Excellent <0>	Good <1>	Poor <2>		
Please rate your understanding of the genetics of common diseases.				<p6-2a></p6-2a>	
In describing your genetic/genomic knowledge, would you consider it to be				<p6-2b></p6-2b>	
PART SI	EVEN				
1. Learning more about genetics and its application	on to voue	nnofogg	ional n	raction.	
1. Learning more about genetics and its applicati	Yes <0>	No <1>		ractice.	
Did your nursing curriculum include genetics content?					<f< td=""></f<>
Since licensure, have you attended any courses that included genetics as a major component?					<f< td=""></f<>
	Yes <0>	No <1>		on't know <999>	
Do you intend to learn more about genetics?					<f< td=""></f<>
Would you be able to attend a course during work hours?					<f< td=""></f<>
Would you attend a course on your own time?					<f< td=""></f<>
Do you think your senior staff members see genetics as an important part of your role?					<i< td=""></i<>
Do you think your senior staff members see genetics as an important part of their role?					<f< td=""></f<>
PART E	ICHT				
	10111				
at year were you born? (i.e. 1960)			<p8< td=""><td>-1> TEXT</td><td>(Nu</td></p8<>	-1> TEXT	(Nu
you a member of the American Nurses Association?	ı				

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2. Are you currently a student?	
3. Are you currently a student?☐ Yes	<p8-3a> 0</p8-3a>
□ No	<p8-3b> 1</p8-3b>
	< 6-30> 1
4. Total number of years you have worked in Nursing:years	<p8-4> TEXT (number)</p8-4>
5. Your current primary functional area (Mark ONLY ONE)	
□ Administration	<p8-5a> 0</p8-5a>
□ Education	<p8-5b> 1</p8-5b>
□ Research	< P8-5c > 2
□ Patient care	<p8-5d> 3</p8-5d>
□ Student	<p8-5e> 4</p8-5e>
☐ Other (Please specify)	<p8-5f> TEXT</p8-5f>
6. What percent of your work-time is spent taking care of patients?	% <p8-6> TEXT</p8-6>
(number)	70 (10 0) 112711
7. What is your current primary area of practice or expertise?	
☐ Staff Nurse	<p8-7a> 0</p8-7a>
☐ Head Nurse	<p8-7b> 1</p8-7b>
□ Nurse Practitioner	<p8-7c> 2</p8-7c>
☐ Clinical Nurse Specialist	<p8-7d> 3</p8-7d>
□ Educator	<p8-7e> 4</p8-7e>
□ Supervisor	<p8-7f> 5</p8-7f>
Researcher	<p8-7g> 6</p8-7g>
☐ Director/Assistant Director	<p8-7h> 7</p8-7h>
□ Consultant	<p8-7i> 8</p8-7i>
☐ Case Manager	<p8-7j> 9</p8-7j>
☐ Other (Please specify)	<p8-7k> TEXT</p8-7k>
8. What is the highest nursing degree that you have you received?	
□ None	<p8-8a> 0</p8-8a>
☐ Licensed Practical/Vocational Nurse	<p8-8b> 1</p8-8b>
☐ Diploma	<p8-8c> 2</p8-8c>
☐ Associate Degree in nursing	<p8-8d> 3</p8-8d>
☐ Baccalaureate Degree in nursing	<p8-8e> 4</p8-8e>
☐ Master's Degree in nursing	<p8-8f> 5</p8-8f>
□ Doctorate Degree in nursing	<p8-8g> 6</p8-8g>
■ Doctorate Degree in nursing	1 0-0g> 0
9. Do you consider yourself to be Hispanic/Latino?	
□ Yes	<p8-9a> 0</p8-9a>
□ No	<p8-9b> 1</p8-9b>
10. Which of the following do you consider yourself? (Check ONLY ONE)	
☐ American Indian/Alaska Native	<p8-10a> 0</p8-10a>
□ Asian	<p8-10b> 1</p8-10b>

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☐ Black/African American	<p8-10c> 2</p8-10c>
☐ Native Hawaiian/Pacific Islander	<p8-10d> 3</p8-10d>
□ White	<p8-10e> 4</p8-10e>
☐ Other (please specify):	<p8-10f> TEXT</p8-10f>
11. What is your gender?	
☐ Male	<p8-11a></p8-11a>
☐ Female	<p8-11b></p8-11b>

Thank you for taking the time to complete this survey. Your participation is greatly appreciated!