

About the Measure

Domain:	Social Determinants of Health
Measure:	Use of Technology for Health
Definition:	Use of Technology for Health is a measure of access to health technology, including the use of smartphones and computers for accessing the Internet and electronic medical records, based on data from a nationally representative survey.
Purpose:	This measure can be used to assess use of the Internet for finding and sharing health information, including social networking, and use of electronic medical records for monitoring health.
Essential PhenX Measures:	Current Age Current Educational Attainment Race Ethnicity
Related PhenX Measures:	Reading Comprehension
Measure Release Date:	

About the Protocol

Protocol Release Date:	
PhenX Protocol Name:	Access to Health Technology
Keywords:	National Cancer Institute, NCI, Health Information National Trends Survey, HINTS, Social Determinants of Health
Protocol Name from Source:	National Cancer Institute (NCI) Health Information National Trends Survey (HINTS), Annotated Form, Cycle 2, 2018, Full-Content, English Version
Description:	The Health Information National Trends Survey (HINTS) collects data about use of cancer-related online information. The HINTS is a nationally representative survey that has been administered every few years by the National Cancer Institute (NCI) since 2003. The HINTS target population is adults aged 18 or older in the U.S. civilian, noninstitutionalized population. The survey is administered over the course of 4 years, which completed in 2018. The survey may be administered via self-report questionnaire.

Specific Instructions:	The Working Group recommends that the interviewer ascertain what language is spoken in the home.																																	
Protocol:	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <tr> <td style="width: 75%;">1. Has your tablet or smartphone...</td> <td style="width: 12.5%; text-align: center;">Yes</td> <td style="width: 12.5%; text-align: center;">No</td> </tr> <tr> <td style="padding-left: 20px;">a. helped you track progress on a health-related goal, such as quitting smoking, losing weight, or increasing physical activity?</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. helped you make a decision about how to treat an illness or condition?</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. helped you in discussions with your health care provider?</td> <td></td> <td></td> </tr> </table> <p>2. <u>Other than a tablet or smartphone</u>, have you used an electronic device to monitor or track your health within the last 12 months? Examples include Fitbit, blood glucose meters, and blood pressure monitors.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>3. Have you shared health information from either <u>an electronic monitoring device or smartphone</u> with a health professional within the last 12 months?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <tr> <td style="width: 75%;">4. Sometimes people use the Internet to connect with other people online through social networks like Facebook or Twitter. This is often called "social media".</td> <td style="width: 12.5%; text-align: center;">Yes</td> <td style="width: 12.5%; text-align: center;">No</td> </tr> <tr> <td style="padding-left: 20px;">In the past 12 months, have you used the Internet for any of the following reasons?</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. To visit a social networking site, such as Facebook or LinkedIn</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. To share health information on social networking sites, such as Facebook or Twitter</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. To write in an online diary or blog (i.e., Web log)</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">d. To participate in an online forum or support group for people with a similar health or medical issue</td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">e. To watch a health-related video on YouTube</td> <td></td> <td></td> </tr> </table> <p>5. Have you sent a <u>text message</u> to or received a text message from a doctor or other health care professional within the last 12 months?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know</p>	1. Has your tablet or smartphone...	Yes	No	a. helped you track progress on a health-related goal, such as quitting smoking, losing weight, or increasing physical activity?			b. helped you make a decision about how to treat an illness or condition?			c. helped you in discussions with your health care provider?			4. Sometimes people use the Internet to connect with other people online through social networks like Facebook or Twitter. This is often called "social media".	Yes	No	In the past 12 months, have you used the Internet for any of the following reasons?			a. To visit a social networking site, such as Facebook or LinkedIn			b. To share health information on social networking sites, such as Facebook or Twitter			c. To write in an online diary or blog (i.e., Web log)			d. To participate in an online forum or support group for people with a similar health or medical issue			e. To watch a health-related video on YouTube		
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Next, we are going to ask you some questions about your medical records. Medical records are defined as medical history, such as laboratory test results, clinical notes, and current list of medications.

6. Do any of your doctors or other health care providers maintain your medical records in a computerized system?

- Yes
- No
- Don't know

7. How confident are you that safeguards (including the use of technology) are in place to protect your medical records from being seen by people who aren't permitted to see them?

- Very confident
- Somewhat confident
- Not confident

8. Have you ever kept information from your health care provider because you were concerned about the privacy or security of your medical record?

- Yes
- No

9. Have you ever been offered online access to your medical records by your health care provider or health insurer?

- Yes -> **GO TO 10.**
- No
- Don't know

10. Who offered you online access to your medical records?

Mark all that apply.

- Health care provider
- Health insurer
- Something else – Specify _____

11. How many times did you access your online medical record in the last 12 months?

- 0 -> **GO TO 12.**
- 1 to 2 times -> **GO TO 13.**
- 3 to 5 times -> **GO TO 13.**
- 6 to 9 times -> **GO TO 13.**
- 10 or more times -> **GO TO 13.**

12. Why have you not accessed your medical record online? Is it because...

Yes	No
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	a. You prefer to speak to your health care provider directly?				
	b. You do not have a way to access the website?				
	c. You did not have a need to use your online medical record?				
	d. You were concerned about the privacy or security of the website that had your medical records?				
	e. You don't have an online medical record?				
	f. Other (Specify) _____				
	13. In the past 12 months, have you used your <u>online</u> medical record to...			Yes	No
	a. Request refill of medications?				
	b. Fill out forms or paperwork related to your health care?				
	c. Request correction of inaccurate information?				
	d. Securely message health care provider and staff (for example, e-mail)?				
	e. Download your health information to your computer or mobile device, such as a cell phone or tablet?				
	f. Add health information to share with your health care provider, such as health concerns, symptoms, and side effects?				
	g. Help you make a decision about how to treat an illness or condition?				
	14. Do any of your online medical records include the following types of medical information?			Yes	No
a. List of health/medical problems					
b. Allergy list					
c. Summaries of your office visit					
d. Clinical notes					
e. Immunization or vaccination history					
15. Have you electronically sent your medical information to...?			Yes	No	
a. Another health care provider?					
b. A family member or another person involved with your care?					
c. A service or app that can help manage and store your health information?					

	<div style="border: 1px solid black; width: 100%; height: 15px; margin-bottom: 10px;"></div> <p>16. In general, how useful is your online medical record for monitoring your health?</p> <p><input type="checkbox"/> Very useful <input type="checkbox"/> Somewhat useful <input type="checkbox"/> Not very useful <input type="checkbox"/> Not at all useful <input type="checkbox"/> I do not use my online medical record to monitor my health</p> <p>Scoring and Interpretation Refer to the “HINTS5 Cycle 2 Methodology Report” for details on methodology, sampling, and procedures for Cycle 2, sections 4 and 5: https://hints.cancer.gov/data/methodology-reports.aspx</p>
Selection Rationale:	The Health Information National Trends Survey (HINTS) is a nationally representative survey that has been administered by the National Cancer Institute (NCI) since 2003. It is administered via single-mode mail survey and is comprehensive in its coverage of topics regarding knowledge of, attitudes toward, and use of cancer- and health-related information by the American public. The data are publicly available.
Source:	National Institutes of Health, U.S. Department of Health and Human Services. (2018). <i>Health Information National Trends Survey Annotated Form, Cycle 2, Full-content, English version.</i>
Availability:	Publicly available
Life Stage:	Adult
Language:	English, Spanish
Participant:	Adults aged 18 or older
Personnel and Training Required:	None

Equipment Needs:	None									
General References:	<p>Emanuel, A. S., Kiviniemi, M. T., Howell, J. L., Hay, J. L., Waters, E. A., Orom, H., & Shepperd, J. A. (2015). Avoiding cancer risk information. <i>Social Science & Medicine</i>, 147, 113–120.</p> <p>Hay, J. L., Orom, H., Kiviniemi, M. T., & Waters, E. A. (2015). "I don't know" my cancer risk: Exploring deficits in cancer knowledge and information-seeking skills to explain an often-overlooked participant response. <i>Medical Decision Making</i>, 35(4), 436–445.</p> <p>National Institutes of Health, U.S. Department of Health and Human Services. (2007). <i>On-line communication with health care providers: eHealth behaviors and trends</i>. HINTS Brief No. 8.</p> <p>National Institutes of Health, U.S. Department of Health and Human Services. (2013). <i>Health information technology and meaningful use</i>. HINTS Brief No. 23.</p> <p>National Institutes of Health, U.S. Department of Health and Human Services. (2014). <i>Developing an electronic information system for high-quality cancer care</i>. HINTS Brief No. 27.</p> <p>National Institutes of Health, U.S. Department of Health and Human Services. (2018). <i>HINTS 5 Cycle 2 public codebook</i>.</p> <p>National Institutes of Health, U.S. Department of Health and Human Services. (2018). <i>HINTS factsheet</i>.</p> <p>Tennant, B., Stollefson, M., Dodd, V., Chaney, B., Chaney, D., Paige, S., & Alber, J. (2015). eHealth literacy and web 2.0 health information seeking behaviors among baby boomers and older adults. <i>Journal of Medical Internet Research</i>, 17(3), e70.</p>									
Mode of Administration:	Self-administered questionnaire									
Derived Variables:	None									
Requirements:	<table border="1"> <thead> <tr> <th>Requirements Category</th> <th>Required (Yes/No):</th> </tr> </thead> <tbody> <tr> <td>Major equipment</td> <td>No</td> </tr> <tr> <td>Specialized training</td> <td>No</td> </tr> <tr> <td>Specialized requirements for biospecimen collection</td> <td>No</td> </tr> </tbody> </table>		Requirements Category	Required (Yes/No):	Major equipment	No	Specialized training	No	Specialized requirements for biospecimen collection	No
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Use of Technology for Health

Date of SC final approval

	Average time of greater than 15 minutes in an unaffected individual	No	
Annotations for Specific Conditions:	No annotations at this time		
Process and Review:	Not applicable		