

Domain:	Reproductive Health
Measure:	Causes and Treatments of Known Infertility
Definition:	Questions to assess participant's experience with infertility
Purpose:	These questions are used to determine the cause of the participant's or their partner's infertility and the treatments that they may have sought. It is important to measure because it can be related to birth outcomes (e.g., multiple births). Infertility may also be associated with gene/environmental interactions.
Essential PhenX Measures:	Current Age Difficulty in Conceiving Gender
Related PhenX Measures:	Sexual History Prostate Symptoms Testes Volume Male Sexual Function
Keywords:	Reproductive health, infertility, fertility drug, National Survey of Family Growth, NSFG
Measure Release Date:	February 26, 2010

Protocol Release Date:	February 26, 2010
PhenX Protocol Name:	Causes and Treatments of Known Infertility - Male
Protocol Name from Source:	National Survey of Family Growth 2013-2015
Description:	The interviewer asks the participant questions about whether the participant or partner has needed medical assistance with having a baby, the type of assistance, and the type of infertility problems.
Specific Instructions:	<p>Questions 1-3 are asked of both males and females.</p> <p>The NSFG provides a card of response categories to the respondent. For example, in question 2, an investigator would provide the respondent with a card listing the categories "advice, infertility testing, drugs to improve ovulation," "surgery to correct blocked tubes," "artificial insemination," "treatment for varicocele," and "other types of medical help." The Expert Review Panel recommends that additional categories be added to question 2 for "donor sperm", "in-vitro fertilization", "intracytoplasmic sperm injection", "testicular sperm retrieval", and "vasectomy reversal". For question 3, they recommend revising the first category to "sperm problems", and adding additional categories for "hormone deficiency" and "genetic infertility (e.g., Klinefelter syndrome)". A card was also provided in question 3.</p>

	<p>The male NSFG questions (questions 1-3) have been modified to indicate partner instead of wife.</p> <p>Below is a definition from the Mayo Clinic website that researchers may find helpful in using the toolkit:</p> <ul style="list-style-type: none"> • A varicocele (VAR-ih-koe-seel) is an enlargement of the veins within the scrotum, the loose bag of skin that holds your testicles. A varicocele is similar to a varicose vein that can occur in your leg. Varicoceles are a common cause of low sperm production and decreased sperm quality, although not all varicoceles affect sperm production. Varicoceles also can cause testicles to shrink. (Mayo Clinic. http://www.mayoclinic.com/health/Varicocele/DS00618 accessed February 15, 2010.) <p>The PhenX Working Group recommends this measure should be preceded by "Difficulty in Getting Pregnant" for a more complete assessment of infertility.</p>
Protocol:	<p>1. Did you or your partner* ever go / Have you or your partner* ever been to a doctor or other medical care provider to talk about ways to help you have a baby together?</p> <p><input type="checkbox"/> 1 Yes</p> <p><input type="checkbox"/> 5 No (Skip to end)</p> <p>NOTE: Do not code yes if main purpose of visit was for something other than seeking help to have a baby.</p> <p>2. Which of the services (did / have) you or your / partner*) (have / had) to help you have a baby together? ENTER all that apply:</p> <p><input type="checkbox"/> 1 Advice</p> <p><input type="checkbox"/> 2 Infertility testing</p> <p><input type="checkbox"/> 3 Drugs to improve ovulation</p> <p><input type="checkbox"/> 4 Surgery to correct blocked tubes;</p> <p><input type="checkbox"/> 5 Artificial insemination</p> <p><input type="checkbox"/> 6 Treatment for varicocele</p> <p><input type="checkbox"/> 7 Other types of medical help</p>

	<p>3. When you and your partner* went for medical help to have a baby together, were you ever told that you had any of the following male infertility problems? ENTER all that apply:</p> <p><input type="checkbox"/> 1 Low sperm count or no sperm</p> <p><input type="checkbox"/> 2 Varicocele</p> <p><input type="checkbox"/> 3 Genetic disorder that alters sperm production</p> <p><input type="checkbox"/> 4 Low testosterone level</p> <p><input type="checkbox"/> 5 Other</p> <p><input type="checkbox"/> 6 None of the above</p> <p>*Note: The questions have been modified by the PhenX Working Group to indicate partner instead of wife.</p>
Selection Rationale:	The National Survey of Family Growth 2013-2015 includes questions that address the causes and treatment of infertility. The survey includes both male and female respondents and represents the household population of the U.S. between the ages of 15-44 years.
Source:	Centers for Disease Control and Prevention (CDC). National Survey of Family Growth (NSFG) Staff Division of Vital Statistics, National Center for Health Statistics. National Survey of Family Growth (NSFG) 2013-2015 Male. Questions INFHELP IE-1 (question 1), INFSVCS IE-2 (question 2), NSFG INFRTHIS IE-7 (question 3).
Life Stage:	Adolescent Adult
Language:	English
Participant:	Participants 15-44 years of age
Personnel and Training Required:	The interviewer must be trained in the use of CAPI-lite questionnaires for the NSFG.
Equipment Needs:	If a computer-assisted instrument is used, computer software may be necessary to develop the instrument. The interviewer will require a laptop computer/handheld computer to administer a computer-assisted questionnaire.
General References:	<p>Lepkowski JM, Mosher WD, Davis KE, Groves RM, van Hoewyk J, Willem J. (2006). National Survey of Family Growth, Cycle 6: sample design, weighting, imputation, and variance estimation. <i>Vital Health Stat</i>, 2(142):1-82. PubMed PMID: 16999003.</p> <p>Martinez GM, Chandra A, Abma JC, Jones J, Mosher WD. (2006). Fertility, contraception, and fatherhood: data on men and women from cycle 6 (2002)</p>

	of the 2002 National Survey of Family Growth. <i>Vital Health Stat</i> , 23(26):1-142.										
Mode of Administration:	Interviewer-administered questionnaire										
Derived Variables:	None										
Requirements:	<table border="1"> <thead> <tr> <th>Requirement Category</th> <th>Required</th> </tr> </thead> <tbody> <tr> <td>Major equipment</td> <td>No</td> </tr> <tr> <td>Specialized training</td> <td>Yes</td> </tr> <tr> <td>Specialized requirements for biospecimen collection</td> <td>No</td> </tr> <tr> <td>Average time of greater than 15 minutes in an unaffected individual</td> <td>No</td> </tr> </tbody> </table>	Requirement Category	Required	Major equipment	No	Specialized training	Yes	Specialized requirements for biospecimen collection	No	Average time of greater than 15 minutes in an unaffected individual	No
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	Major equipment	No									
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Annotations for Specific Conditions:	None at this time.										
Process and Review:	<p>The Expert Review Panel #5 (ERP 5) reviewed the measures in the Reproductive Health domain.</p> <p>Guidance from ERP 5 includes:</p> <ul style="list-style-type: none"> • Updated the protocol <p>Back-compatible</p> <p>Previous version in Toolkit archive (link)</p>										