PregSource[®]:

Crowdsourcing to Understand Pregnancy



pregsource.nih.gov

Caroline Signore, MD, MPH September 13, 2018 NACHHD Update



Eunice Kennedy Shriver National Institute of Child Health and Human Development





This online research registry will gather data on a real-time basis directly from adult pregnant women via an interactive online platform using a crowdsourcing approach.



Why create an online pregnancy 'registry'?

Harness the power of crowdsourcing to learn more about the:

- Normative range of physical and emotional experiences, as well as alterations in behavior, that women have during pregnancy and after giving birth
 - Impact of these experiences on women's lives
 - Detail the natural history and variations of human pregnancy
 - Provide information about pregnancy from trusted sources



Scientific Goals



- Build a more complete picture of typical pregnancy and develop strategies for improving maternal care and pregnancy outcomes
- Gain information on understudied groups (e.g., pregnant women with disabilities)
- Build a large epidemiological dataset to inform future research; deidentified data will be made available to approved researchers for analysis
- Support research by informing women about research participation opportunities



PregSource Partners



Eunice Kennedy Shriver National Institute of Child Health and Human Development



National Center for Complementary and Integrative Health



CENTERS FOR DISEASE CONTROL AND PREVENTION



NIH National Institutes of Health Office of Research on Women's Health



National Institute on Minority Health and Health Disparities







National Institute of Environmental Health Sciences

> National Heart, Lung, and Blood Institute











National Institute of Nursing Research





National Institutes of Health Office of Behavioral and Social Sciences Research







How Was PregSource Developed?

- NICHD gathered together trusted partner organizations
- Expert partners brainstormed the critical questions to ask participants
- Questionnaires were written to meet readability requirements for the general public
- Website and database programming done via contract
- Built on earlier experience with DS-Connect®

How Does It Work?

- Inclusion criteria: currently pregnant adults
- Online consent process
- Username and password
- Complete profile and contact preferences
- Enter data through questionnaires and trackers
- Update throughout pregnancy and postpartum





What's in it for me?

- Print trackers and questionnaires to share with healthcare provider
- Compare pregnancy experiences to those of other participants
 - To see whether symptoms are "typical"
- Read extensive, reliable pregnancy information from leading experts
- No advertisements for pregnancy- or baby-related products or services
- Personal information will not be sold or shared

Focus on Health Research

- Information will be collected only for research purposes
- Deidentified data will be made available to approved researchers for analysis



• PregSource will not share user information directly with researchers



PregSource Secondary Outcomes

Besides health research outcomes, PregSource has some methodological questions to answer:

- How many participants will join an online registry?
- How many will regularly continue to enter data throughout their pregnancy?
 - For monthly questionnaires
 - For trackers
- Or after pregnancy, when they are busy taking care of their new babies?









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Questionnaires

Include:

- Due date
- Health history
- Demographics
- Trackers
- Monthly gestational age-specific questionnaires

You do not have to complete the survey at one time. You may log out at any time and your answers will be saved. For more detailed instruction, click here.			
ue Date 😡			
ter the details about your due date.			
What is your due date for this pregnancy? *			
	DD/MM/YYYY		
Please make your selection from the calendar icon.	24/12/2015		
How was your due date determined? *	\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/		
Assisted Reproductive Technolc			

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My Weight Gain

For BMI less than 18.5



45 40





WEEKS 17-20: TELL US HOW YOU ARE DOING - MY PREGNANCY CONDITIONS



Deidentified data feedback: Is this "normal?"



Resource Library: Articles from Trusted Sources

- >450 articles about pregnancy, pregnancy complications, and infant health
- From our Partner organizations

Q

Resource Library

PregSource[™] is pleased to provide this Resource Library with information about different pregnancy topics. All items in the Library come from <u>PregSource[™] Partners</u>.

Don't see what you're looking for? You might want to check out the website of one or more of the <u>PregSource™ Partners</u> for more detailed information.

PregSource[™] information does not to the place of advice from a health care provider. If you have specific questions about your pregnancy or your health, please talk to your health care provider.



PregSource

Home About * Resource Library Contact Us

Thank you for joining PregSource®! Completing your registration involves just a few more steps. The process should only take a few minutes.

First, we need you to "officially" agree or consent to take part in PregSource by reading the information and following the instructions below. Then, we need you to set up your profile - including username and password - and create your unique PregSource ID. Lastly, we need you to type in a special code that helps protect your information and PregSource from spammers and other security threats.

Informed Consent for PregSource

Please read this electronic consent form carefully. For more infe Signore, at PregSource@nih.gov with any other questions relate PregSource consent text to keep a written statement regarding

at https://PregSource.nih.gov. You can also contact the PregSou For the purposes of the consent form below, "I", "my", "you" and "your" refers to the pregnant woman who is giving consent.

Note: Taking part in PregSource is your choice.

What is PregSource?

Development, which is part of the National Institutes of Health about their health, from morning sickness and sleep patterns, t information. We also will ask about how their babies are doing a

PregSource is a health research study led by the *Eunice Kennec* Please type the full name of the person giving consent:

PregSource has been approved by the NICHD Institutional F By consenting, I agree to the following:

- I have read the informed consent document. I have had a chance to ask questions and get answers, and I have no other questions at this time.
- I understand the purposes, risks, and benefits of taking part in PregSource[™].
- I understand that taking part in PregSource[™] is entirely my choice.
- If I change my mind and no longer want to take part in PregSource[™], I am free to do so and do not have to give any reason.
- I agree to allow PregSource[™] Coordinators to contact me by email.
- □ I am the participant (pregnant woman) and I am 18 years of age or older. I hereby consent to take part in PregSource[™].

Groundbreaking for NICHD

With DS-Connect[®], earliest substantial experiences with research conducted entirely online



Released: October 2017

pregsource.nih.gov



PregSource: Your Pregnancy. Your Experience. Your Care.

Outreach

We **rely on our partners** to share PregSource information with their members and constituents.





Eunice Kennedy Shriver National Institute of Child Health and Human Development

Shape the future of obstetric care.

Outreach Plan



- Provided promotional toolkit to partners for use on their channels
- Ad placement on social media, babycenter.com, other platforms
- In-person outreach at conferences and health fairs (e.g., NBC4 Health & Fitness Expo in DC)

• Evaluate what has/hasn't worked and revise tactics and strategies to capitalize on successes, adjust messages and materials, and plan for additional phases



NEWS RELEASES

Wednesday, November 1, 2017

NIH launches PregSource, a crowdsourcing project to better understand pregnancy

Pregnant women can track their experiences through a secure and confidential website.

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The National Institutes of Health has launched PregSource, a research

project that aims to improve knowledge of p information directly from pregnant women. and emotional aspects of pregnancy, labor a distinct challenges faced by subgroups of wo disabilities. By offering a more comprehensi experience — from normal pregnancies to t other factors — PregSource promises to info maternal care in the United States.

"PregSource benefits everyone—the particip and the research community," said Diana W.



pregsource.nih.gov

- Home > Newsroom > News
- > Podcast: NICHD launches PregSource to learn more about pregnancy

Podcast: NICHD launches PregSource to learn more about pregnancy





NICHD News & Info @ @NICHD_NIH · Aug 24 · arch and What is a typical pregnancy? #PregSource, an #NICHD-led research project, aims to find out. @kingWTOP speaks with NICHD's Dr. Caroline Signore. bit.ly/2GMZyiv





Patient Education: Crowdsourcing Comes to

Pregnancy with PregSource™

The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) has been working with ACOG and several other women's health organizations to develop a new website and app called PregSource™ to help women track their pregnancy experiences. The data collected through this resource can help improve care

for pregnant women by allowing them to record and t compare their pregnancy and post-pregnancy experi

The National Institutes of



Crowdsourcing to Understand Pregnancy

Health has launched Preg-Source, a research project that aims to improve knowledge of pregnancy by collecting information directly from pregnant women. Women who sign up for PregSource use online surveys to share what they are experiencing, and they can compare these experiences with those of other participants. Over the course of their pregnancies, women can chart changes to their weight, sleep, mood, morning sickness, and physical activity. In addition, they can access informational resources developed by experts on pregnancy, childbirth, and child



development. PregSource also enables women to track their experiences after childbirth to help determine if any outcomes, such as heart disease, can be linked to events during pregnancy. Find the website here: https://pregsource.nih.gov.

June 2018

https://nwhiournal.org/article/S1751-4851(18)30109-0/pdf

Lamaze Partners with PregSource™ in Support of Study and You Can Help



obstetric care. Encourage your patients to join the **PregSource**[™] research project today.

pregsource.nih.gov

FEATURE

PregSource

NIH goes straight to pregnant women in new research project

Publish date: December 2, 2017 By Christine Kilgore; Ob.Gyn. Nev



Research on pregnancy is now being crowdsourced, with pregnant women being asked in a new federal research project to "tell researchers and health care providers what

Home » Health & Fitness News » What is a typical...

What is a typical pregnancy? Research project aims to be resource



By Kristi King | @KingWTOP February 28, 2018 4:23 am





UTSouthwestern Medical Center

Your Pregnancy Matters

Crowdsourcing: Can it help get women through pregnancy?

February 27, 2018

Robyn Horsager-Boehrer, M.D.

Support PregSource™: A Research Project to Shape the Future of **Obstetric Care**

The American College Health and Human Dev pregnant women quest confidential website. Th

PregSource data will he



se-change over the course of the pregnancy?

chart participants' weight, sleep, mood, morning

pregsource.nih.gov

bilities or chronic diseases, experience

What are the patterns of weight gain during pregnancy, and how do they affect maternal, fetal, and infant health?

Our Moment of Truth over Michvife Care & Women's Healt





Let's talk about pregnancy!

Share and compare your experiences with other pregnant women. Join the PregSource" research project to make a lifference in pregnancy care.

regsource.nih.gov





Hi everyone, I'm just posting this here in case anyone else is a science nerd like mel

I read this Washington Post article about pregnancy forums today.

It mentioned an NIH sponsored research website that pregnant women can contribute to The point of the site is to collect real data on things like nause changes in weight and sleep in pregnant ladies and then provide that information to OB/GYNs everywhere I'm sure we've all noticed how none of our doctors seem to

bobycenter. COMMUNITY

NIH Launches PregSource, A Crowdsourcing Project to Better Understand Pregnancy November 2, 2017

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The National Institutes of Health has launched PregSource, a research

project that aims to improve knowledge of pregn information directly from pregnant women. The physical and emotional aspects of pregnancy, lab identify distinct challenges faced by subgroups o **Quick Read**





Recruitment



Participant Characteristics

	PregSource	US Pop*
Age <35y	62%	87%
Hispanic, Latina, or Spanish Origin	6%	23%
White Race	92%	75%
Private Insurance	89%	50%
Master's Degree or higher	63%	12%
Employed	78%	
1 st Trimester at Enrollment	29%	
Nulliparous	40%	30%
Overweight or Obese	41%	52%



pregsource.nih.gov

*NVSS, Births 2016, https://www.cdc.gov/nchs/data_access/vitalstatsonline.htm As of July 31, 2018

Selected Google Analytics data





Task Force on Research Specific to Pregnant Women and Lactating Women (PRGLAC)



the Secretary.

The 21st Century Cures Act established PRGLAC to advise the Secretary of Health and Human Services (HHS) regarding gaps in knowledge and research on safe and effective therapies for pregnant women and lactating women. PRGLAC is tasked with identifying these gaps and will report its findings back to

"Leverage established and support new infrastructures/collaborations to perform research in pregnant women and lactating women"



Dashboard Addition



Select "Add" to list a prescription or over-thecounter medicine, vitamin, or herbal supplement. If you stopped taking an item or need to change information about it, select "Edit" next to that item.

Current Medications and Supplements

Add Medication or Supplement

Type the name of a medication, vitamin, or herbal supplement in the search field to add that item to your list.

What are you taking?

bactr

bactracillin g

bactracillin g benzathine

bactrim

bactroban

Systemic Formulas Bio Command 3 Bactrex

Systemic Formulas T3 Bactrex Tincture



When did you stop taking this item? * Why did you stop taking this? * Change in health insurance coverage Course of treatment ended Did not seem to work Healthcare provider's advice Felt better Personal decision Side effects too severe or too many Switched to another medication Too expensive Worried it might affect my baby through my breastmilk Worried that it might affect my pregnancy Unsure Prefer not to answer Other Submit

* The fields with the red asterisk are required.



What's Coming Up?

- Spanish language version
- New questionnaires:
 - Post-partum and infant health up to 36 months
 - Special populations/topics (e.g., women with physical disabilities)
- Professional portal for approved researchers to access deidentified data
- Dedicated Twitter feed





Pregnant women: Share and compare your experiences in the PregSource® research project.

pregsource.nih.gov

Professional Portal

• Modeled after DS-Connect®



- •Investigators register for "Level 1 Access" at first
- •Registrants are asked to indicate their intended use of the data
- •Allows viewing questionnaires and browsing through combined de-identified data
- Includes some simple tabulations (e.g., filtered frequency data)



Thank you

- Stephanie Archer
- Sujata Bardhan
- Lisa Kaeser
- Melissa Parisi
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- Debbie Jae
- PregSource Partners