

New or expecting moms overwhelmingly believe knowing their risk of pregnancy complications can enable proactive, personalized and preventive pregnancy care.

tailor education and preventive care toward them.

There is an urgent need to identify who is most at risk of complications and

**KEY FINDINGS** MOMS DEMAND MORE INFORMATION

**EDUCATION IS FALLING SHORT** 

Yout of 10 Only I in IU could correctly new or expecting moms want more information identify all the most

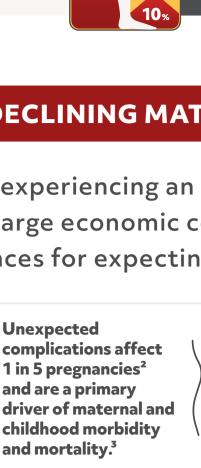
90,

optimize prevention

about their individual

risk of pregnancy

complications to



symptoms

common preeclampsia

warning signs and

AN ERA OF DECLINING MATERNAL HEALTH The United States is experiencing an era of declining maternal health with large economic costs and lifelong health consequences for expecting parents and babies.

## Deaths per 100k increased by pregnancy, including 17.4 nearly 37% preeclampsia, doubled between 2018

**Pregnancy-**

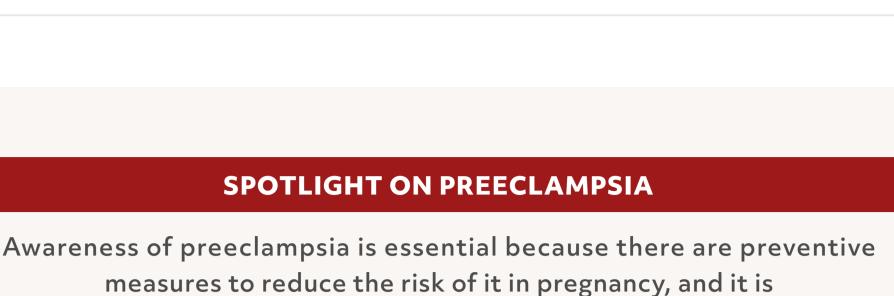
related deaths

2020 2018 and 2020<sup>4</sup> CDC: Pregnancy-related deaths 2018-2020



Deadly conditions such as

hypertensive disorders of



8% OF PREGNANCIES AND CAN HAPPEN TO ANYONE.

PREECLAMPSIA CAN CAUSE:

In severe cases, temporary or

permanent damage to your

· Seizures, known as eclampsia

kidneys, liver, or other organs

High blood pressure and

protein in the urine

Increased lifetime risk

for moms and babies

of heart disease

critical to quickly recognize when it develops to mitigate its severity. PREECLAMPSIA IMPACTS UP TO

> COMMON SIGNS AND SYMPTOMS: Elevated blood pressure Swelling (e.g., hands, feet, or face)

Headache that will not go away

(e.g., seeing spots, blurry vision)

(especially in the right upper side)

report discussing

their preeclampsia

risk with their pregnancy

care providers

wish they knew more about

their risk of preeclampsia

and other pregnancy

complications

Changes in your vision

Stomach pain

**ONLY 1 IN 10** WERE ABLE TO IDENTIFY ALL

OF THE COMMON WARNING SIGNS

OF PREECLAMPSIA CORRECTLY

THE KNOWLEDGE GAP

The survey results show current attempts to educate pregnant Americans

with crucial information about preeclampsia are falling short.

While most felt knowledgeable about preeclampsia, the vast majority do not know the common signs and symptoms of the complication despite most discussing their preeclampsia risk with their pregnancy care providers.

# **HOWEVER:**

UNDERSTANDING OF THEIR PERSONAL RISKS

report they experienced common complications such as preterm birth, preeclampsia or gestational diabetes

75% report they have a good

understanding

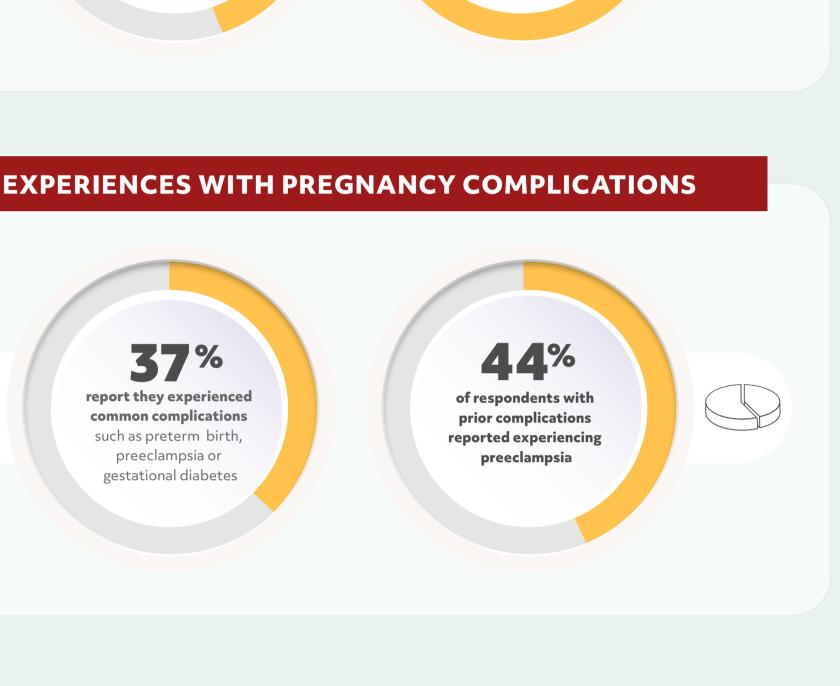
report they did not understand their risk of

preeclampsia and other

pregnancy complications

before getting pregnant

of preeclampsia



# **OPENING A NEW WINDOW INTO PREGNANCY HEALTH** New or Expecting Moms Want to Know Their Personal Risk of Complications and Expect Their Pregnancy Care to be Personalized Based on It

Currently, moms and their pregnancy care providers do not have access to tools to

accurately predict pregnancy complications months before symptoms appear.

This report reveals the overwhelming desire for a simple blood test to predict

and how such a test could enable preventive interventions like low-dose aspirin

preeclampsia after respondents were provided facts about the condition

**KNOWLEDGE IS POWER** 

and blood pressure monitoring.

would want to take

a predictive test

lets them know their chances

of developing problems like

preeclampsia, even if it were

not 100% accurate

They would expect that

their care providers would

make a personalized plan

for their pregnancy care

early in pregnancy that

**FAMILIES DESERVE A MORE CONFIDENT** 

PATH THROUGH PREGNANCY

The Mirvie RNA platform can help pregnancy health enter a new preventive future

By knowing who is at risk, you can begin to personalize

care and target in-depth education to the

This report shows there is still a major gap in education despite the best

- Maneesh Jain, Co-Founder and CEO of Mirvie

Only

believe a test

believe knowing their

They would be

interested in options

to monitor their blood

pressure at home

preeclampsia would

add to their anxiety

to predict

efforts of care providers and the best intentions of expecting moms.

by predicting complications like preeclampsia months before they occur.

moms who need it the most.

PERSONALIZING PREGNANCY CARE

88%

risk of preeclampsia would make them more motivated to follow their pregnancy care providers' medication recommendations 9 OUT OF 10

SAY THAT IF THE TEST SHOWED THEI

PREGNANCY'S INDIVIDUAL

PREECLAMPSIA RISK WAS HIGH:

They would want to discuss the

signs and symptoms of preeclampsia with their pregnancy

care providers to make sure they

know when to call them

THE MIRVIE RNA PLATFORM:

SHAPING A NEW FUTURE

It's no surprise women expect a lot more innovation and personalization in

From targeted education, visit schedules, monitoring,

testing, pregnancy care will be transformed from

a new course for moms in the United States.

medications, lifestyle changes and appropriate follow-up

one-size-fits-none to right-sized care for every mom.

This new approach to pregnancy health is desperately needed to chart

their pregnancy care. With the Mirvie RNA platform, we can soon bring

life-changing advancements to pregnancy health.

92% Trust the

provider(s) who

manage their

96% Believe the

more information they have

about their pregnancy, the

better the conversations

are with their pregnancy

of each pregnancy<sup>7</sup>

THE MIRVIE RNA PLATFORM

The platform combines

revolutionary analysis of tens of

thousands of RNA messages from

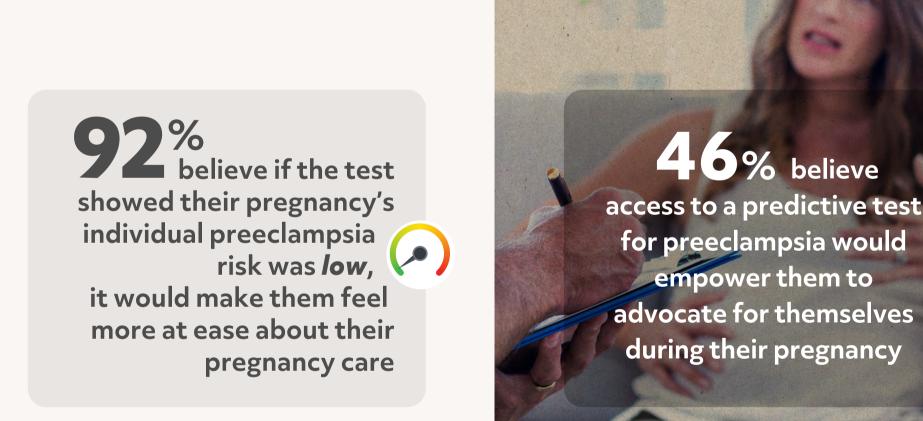
the baby, the placenta and the

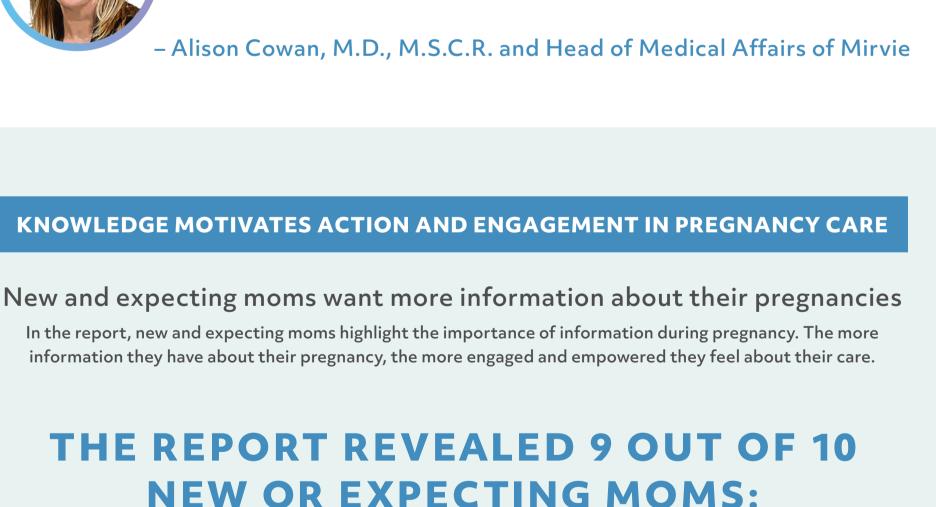
mom, with machine learning.<sup>6,7,8</sup>

health care providers

healthcare

pregnancy





96% Believe the

more information

they have, the more

their care choices

control they have over

94% Believe

empowered

they feel

the more information

the condition's development<sup>8</sup>

The power to

transform how

we predict,

prevent and treat

unexpected

complications.

This creates a new window

for moms to act and their

doctors to intervene

before a complication

becomes a crisis.<sup>6,7,8</sup>

they have, the more

# A BREAKTHROUGH FOR PREDICTING PREECLAMPSIA AND PRETERM BIRTH Landmark pregnancy health research demonstrates the Mirvie RNA platform predicts preeclampsia and preterm birth months in advance. 6,7,8 **NATURE STUDY AJOG STUDY** Predicts 76% of early preterm birth cases Predicts 75% of preeclampsia cases by revealing the underlying biology and identifies distinct pathways driving

MIRVIE IS COMMITTED TO EXPANDING WHAT IS POSSIBLE FOR PREGNANCY HEALTH

The platform can predict

complications months

earlier based on the

underlying biology of each

unique pregnancy.<sup>6,7,8</sup>

shaping the future of pregnancy health?

**VISIT MIRVIE.COM** 

the brilliant, hopeful future we see for pregnancy health.

Visit mirvie.com to discover our landmark research and learn about

Using a simple blood test, it

reveals RNA messages driving

the dramatic changes in

pregnancy, like a baby's

growth and a mom's body.6,7,8

Mirvie is conducting ongoing clinical research to validate existing peer-reviewed evidence, enhance the platform's performance, and improve the understanding of other pregnancy complications.

BRINGING PREGNANCY HEALTH OUT OF THE DARK

individual risk of complications. This breakthrough will allow them to partner with their pregnancy care team to develop a personalized plan aimed at preventing complications or mitigating their severity before they strike. Want to learn more about how we are

Today, so many moms have pregnancy complications with no warning or preparation. Soon, with a simple blood test

powered by the Mirvie RNA Platform, they will have a window into the health of their pregnancy and their

About The Future of Pregnancy Health Report The research was conducted online in the United States by The Harris Poll on behalf of Mirvie among 1,022 U.S. adults (18+) who were either currently pregnant (n=387) or had given birth within the last year (n=655). Data are weighted by race to ensure adequate representation within these groups, and where necessary by education, age, region, income, size of household, marital status, and race (only included for White, Asian and All Other completes). Data were also weighted where necessary by propensity to be online to bring them in line with their actual proportions in the

population. The sampling precision of Harris online polls is measured by using a Bayesian credible interval. For this

study, the sample data is accurate to within +4.0 percentage points using a 95% confidence level. The survey was

conducted September 6-23, 2022. **About Mirvie** Mirvie is shaping the future of pregnancy health by providing women, expecting parents and their doctors with an early

detection window to intervene before unexpected pregnancy complications become a crisis. One in five pregnancies is impacted by complications that lead to lifelong health consequences for expecting parents and babies. The proprietary Mirvie RNA platform uses a simple blood test to reveal vital information about a pregnancy's unique biology and detect complications months before they occur. The idea for Mirvie was sparked by the personal experience of one of the

founders whose daughter was born prematurely. Mirvie's team of world-class scientists and entrepreneurs have brought to market category-first, non-invasive tests in both women's health and in early cancer detection, used by millions today. Founded in 2018, Mirvie has raised more than \$90 million in early-stage financing from top-tier investors, including Decheng Capital, Foresite Capital, General Catalyst, GV, Khosla Ventures, and Mayfield. Mirvie is based in South San Francisco, California. To learn more about Mirvie, please visit *mirvie.com*. [1]: Cameron, Natalie A et al. "Trends in the Incidence of New-Onset Hypertensive Disorders of Pregnancy Among Rural and Urban Areas in the United States, 2007 to 2019." Journal of the American Heart Association vol. 11,2 (2022): e023791. doi:10.1161/JAHA.121.023791 [2]: Trends in pregnancy and childbirth complications in the U.S. Blue Cross Blue Shield. Published June 17, 2020. Accessed August 6, 2022. [3]: https://www.who.int/news-room/fact-sheets/detail/preterm-birth [4]: Hoyert DL. Maternal mortality rates in the United States, 2020. NCHS Health E-Stats. 2022. DOI: https://dx.doi.org/10.15620/cdc:113967 [5]: https://www.cdc.gov/media/releases/2022/p0919-pregnancy-related-deaths.html https://preeclampsia.org/what-is-preeclampsia

[6]: Ngo, et al. Noninvasive blood tests for fetal development predict gestational age and preterm delivery. SCIENCE. 2018.

[7]: Rasmussen, et al. RNA profiles reveal signatures of future health and disease in pregnancy. Nature. 2022. [8]: Camunas-Soler, et al. Predictive RNA profiles for early and very early spontaneous preterm birth. AJOG. 2022.