

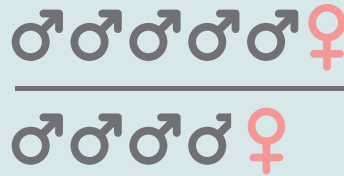
Women's  
Health  
Access  
Matters

# DID YOU KNOW?

**Before 1993,**  
most testing done in clinical trials  
and diagnostic and device  
development was conducted on men.



**Male animals**  
outnumber females  
5 to 1 in pharmacology  
studies—and 3.7 to 1 in  
physiology studies.



**3X**  
LUNG  
CANCER

Lung cancer is the #1 cause  
of cancer death in women.

More women die of lung  
cancer each year than from  
breast, ovarian and uterine  
cancers combined.

Non-smoking women are  
three times more likely than  
non-smoking men to get it.

Women are  
**3/4** of the  
**5.4 MILLION**  
people suffering from  
Alzheimer's disease

Yet  
**66%**  
of the animals used in  
neuroscience research are male  
or of unreported gender.

**Twice**  
as many women as  
men suffer from  
depression in the U.S.  
It is the leading cause  
of disability in women.



Cardiovascular disease is  
the #1 killer of **WOMEN** in  
the US, yet only 1/3 of the  
participants in clinical  
trials are female.



**78%** of  
Americans with  
autoimmune  
disease are  
women—it is  
estimated that  
**50 million**  
people  
are afflicted.

**Not until 2016**  
were female mice mandated to  
be included in research by NIH.



**38%** of animal studies  
researching strokes  
used females—  
although these  
conditions occur  
more often  
in women.



Fewer than 45% of animal studies of  
anxiety and depression use female lab  
animals, although these disorders are  
twice as common in women.



FEMALE STUDIES



While many brain  
disorders show substantial  
differences across  
gender, animal studies  
using only males  
outnumber studies  
that include females  
**5.5 to 1.**

A woman's  
risk of developing  
Alzheimer's  
disease is almost

**2X**  
(TWO TIMES)

that of a man,  
and not just  
because women  
live longer.

## THE BACKGROUND:

WHAM ([whamnow.org](http://whamnow.org)) was created in response to the considerable funding gap, historical exclusion, and underrepresentation of women in health research.

Women are the majority of the U.S. population, nearly 50% of the workforce, and control over 60% of personal wealth. In the U.S., women are responsible for over 85% of consumer spending and make over 80% of healthcare decisions. When women are pulled from the workforce because of inadequate treatment options or to care for their families, there are direct consequences – for our businesses and our economy.

The data on the reverse side of this page represents a very small sampling of the inequities and bias that exist in women's health research. While some progress has been made since 1993, when the National Institutes of Health mandated that women and minorities be included in any government-funded health research, there is still a long way to go.

The lives of women and men will vastly improve through research that is equally inclusive of women and men in trials – and female and male animals in preliminary research. By conducting research in parity and reporting gender outcomes separately, health breakthroughs will be accelerated and health outcomes around the world improved. As women benefit from this research and reduce their burden of disease, they will

improve their own wellbeing, which is directly connected to the wellbeing of our economy.

WHAM is committed to supporting research that investigates diseases and conditions that exclusively, differently or disproportionately affect women.

### OUR FOCUS

- Autoimmune Disease
- Brain Health
- Cancer
- Cardiovascular Disease

### WHAM IS FOCUSED ON THREE INITIATIVES:

**THE WHAM COLLABORATIVE:** The WHAM Collaborative is a group of leading scientists focused on women's health research who help inform everything WHAM does.

**THE WHAM INVESTIGATOR'S FUND:** WHAM funds cutting edge investigators to study women's health and the role of sex and gender in outcomes. WHAM collaborates with leading institutions in the U.S. focused on women's health.

**THE WHAM REPORT\*:** The WHAM Report shows the impact of accelerating sex and gender-based health research on women, their families, and the economy. The WHAM Report will be a benchmark of change in this field and available to all.

To the best of WHAM's and RAND's knowledge this is the first analysis of its kind and is likely to become a seminal part of the arsenal in advocating for increased investment in women's health research. The research methodology and the microsimulation models have been vetted by a diverse panel of experts convened by RAND.

We encourage other leaders, including advocates, economists, scientists, public health experts and policy makers to draw from and act upon the results of this report. Together, we can drive meaningful change.

### OUR VISIONARY COLLABORATORS:

We are very grateful for the support of our Visionary Collaborators. WHAM's Collaborators are premiere institutions and organizations who are seen as leaders and pathfinders in each of our four disease areas creating the criteria that will ultimately affect how women's health research is conducted.



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Please find additional infographics and social media toolkits on [thewhamreport.org](http://thewhamreport.org).

WHAM is making this data available open source so that researchers can use it to amplify their work and drive new research. Please visit [thewhamreport.org](http://thewhamreport.org) to learn more about using this data.

[WHAMnow.org](http://WHAMnow.org)

WHAM, 19 East Elm St  
Greenwich, CT 06830

p. 203-661-1173 | [carolee@whamnow.org](mailto:carolee@whamnow.org)

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\* WHAM commissioned the RAND Corporation to conduct The WHAM Report, a data-driven study of the economic impact to society of increasing the investment in women's health research. To the best of WHAM's and RAND's knowledge, The WHAM Report is the first analysis of its kind to create and calibrate a microsimulation model that examines differences for women's health research investment.