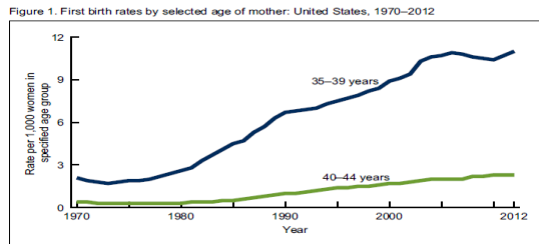


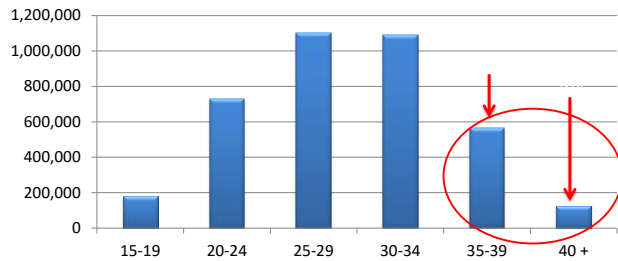
First Births to Pregnant People ≥35



NOTE: Access data table for Figure 1 at http://www.cdc.gov/nchs/data/databriefs/db152_table.pdf. SOURCE: CDC/NCHS, National Vital Statistics System.

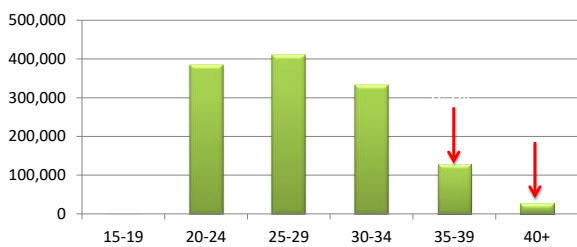
Data from Mathews and Hamilton (2014), NCHS Data Brief No. 152.

What age are people giving birth today?

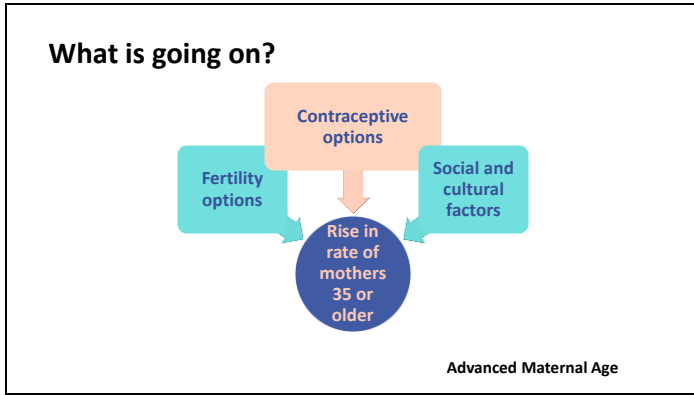


Data from Martin et al. (2019), National Vital Statistics Reports: Births: Final Data for 2018

What age are people giving birth for the first time?



Data from Martin et al. (2019), National Vital Statistics Reports: Births: Final Data for 2018



Language

Advanced Maternal Age

Language
 Elderly
 Advanced Maternal Age
 Mature Geriatric High Risk
 Obstetrically old but chronologically young
 In their reproductive twilight years

ICD-10 Code

- ▶ 009.5 Supervision of elderly primigravida and multigravida
 - ▶ 009.51 Supervision of elderly primigravida
 - ▶ 009.511 first trimester
 - ▶ 009.512 second trimester
 - ▶ 009.513 third trimester
 - ▶ 009.519 unspecified trimester
 - ▶ 009.52 Supervision of elderly multigravida
 - ▶ 009.521 first trimester
 - ▶ 009.522 second trimester
 - ▶ 009.523 third trimester
 - ▶ 009.529 unspecified trimester

Urban Dictionary

- Elderly Primigravida
 - N. – An older flea market Prada bag that is just starting to show its wear and tear

“It was my first time at fashion week, and I did my best to hide my “elderly primigravida.”

Dr. John Moore (1956)

- “If I were an obstetric patient, even in the 35 to 40+ age group, I think I would resent the adjective ‘elderly.’ If the term persists, we may find ourselves speaking of such an inconsistency as geriatric obstetrics!”

Proposed New Language from EBB

“Pregnant at age 35 and older/greater/beyond”

**Thoughts about language?
Go ahead and post them below...**

Stats on Risk

Advanced Maternal Age

Fertility Decline

- Fertility decline starts at age 32 and progresses more rapidly after 37
- In up to 12 menstrual cycles in which women with sterile partners received monthly artificial insemination:
 - 74% of women <31 will get pregnant
 - 62% of women 31-34 will get pregnant
 - 54% of women ≥ 35 will get pregnant

ACOG Committee Opinion No. 589 (Reaffirmed 2020)

Advanced Maternal Age

Genetic Risks

- Age is a strong predictor of Down Syndrome and other abnormalities
- Observed in large population-based trials, as well as in-vitro fertilized embryos
- Risk of Down Syndrome at 16 weeks:
 - 1 in 1,120 at age 25
 - 1 in 733 at age 30
 - 1 in 265 at age 35
 - 1 in 60 at age 40
 - 1 in 23 at age 45

Rodeck and Whittle (2009). Fetal Medicine: Basic Science and Clinical Practice, 2nd ed, Elsevier

Advanced Maternal Age

Risk of Miscarriage

- The rate of spontaneous miscarriage climbs gradually with age
- Researchers estimate the spontaneous miscarriage rate is about:
 - 9% at age 22
 - 18% at age 30
 - 20% at age 35
 - 40% at age 40
 - 84% at age 48

Nybo Andersen et al. (2000)

Absolute vs. relative risk

- Absolute risk: the actual risk of something happening to you
 - “Among pregnant people 35-39 years of age, X number of babies out of every 1,000 births are stillborn.”
- Relative risk: the risk of something happening to you in comparison to somebody else
 - “Compared to people 18-34 years of age, those aged 35-39 are X% more likely to experience stillbirth.”

Advanced Maternal Age

When discussing risk...

- Talk about absolute risk!
- Absolute risk: the actual risk of something happening to you
- Helps families make decisions based on understandable information

Factors known to affect the risk of stillbirth

- | | |
|---|---|
| • Age less than 15 years or greater than 35 years | • Having a pregnancy using assisted reproductive technology |
| • Being pregnant with your first baby | • Being pregnant with multiples |
| • Body mass index ≥ 30 | • Male fetal sex |
| • Preexisting diabetes, chronic high blood pressure | • Unmarried status |
| • Smoking, alcohol use | • Placenta previa |
| | • History of a previous stillbirth |

ACOG/SMFM, 2020

Advanced Maternal Age

Risks are Real

- Previously given birth at term
 - <35 = 1.29 per 1,000 or **1 in 775**
 - 35-39 = 1.99 per 1,000 or **1 in 502**
 - 40+ = 3.29 per 1,000 or **1 in 303**

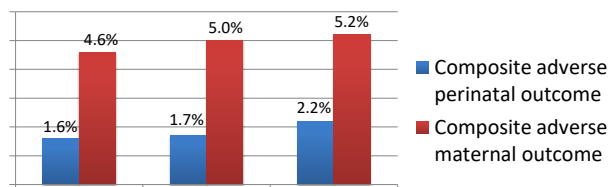
Cause of increased stillbirth?

.... is unknown.

- Other health problems that are more likely to occur with aging? That doesn't fully explain it.
 - The risk is still increased when we remove these risk factors
- Placental factors? "A logical avenue to explore."
 - A meta-analysis found that older age was linked to increased risk of fetal growth restriction, placental abruption and preeclampsia- all conditions related to placental pathology/dysfunction and to stillbirth
- Advanced paternal age? Needs more research.
 - At least one study has found it to be an independent risk factor

(Lean et al. 2017)

Composite adverse outcome- Netherlands Registry

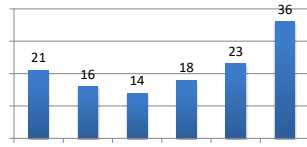


Kortekaas et al. 2020. Acta Obstet Gynecol Scand. 99:1022-1030

Advanced Maternal Age

Risks to the pregnant person

- Retro study, included all singleton births to residents of Washington State, 2003-2013
- Included 800,000+ births
- Rate of serious maternal complications low, but increased with age

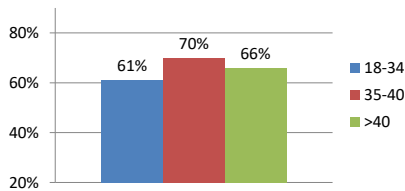


Lisonkova et al. (2017)

Advanced Maternal Age

Benefits?

- More likely to breastfeed



Jolly et al. (2000). Human Reproduction 15(11): 2433-2437.

Advanced Maternal Age

Other benefits of being an older parent?

- Maturity, life experience
- Greater economic security
- Advance education, career
- Social support

Where can professionals learn more?

Handout

Advanced Maternal Age
