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TEXAS OUTPACES NATIONAL GROWTH IN ASSISTED REPRODUCTIVE TECHNOLOGY–ASSOCIATED BIRTHS: A POPULATION-BASED ANALYSIS

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BACKGROUND

- Assisted reproductive technology (ART) use has increased nationally in recent years.
- Regional variation may reflect differences in access, utilization, and fertillty care expansion.
- We evaluated trends in ART-associated births in Texas compared with national patterns in the United States.

METHODS

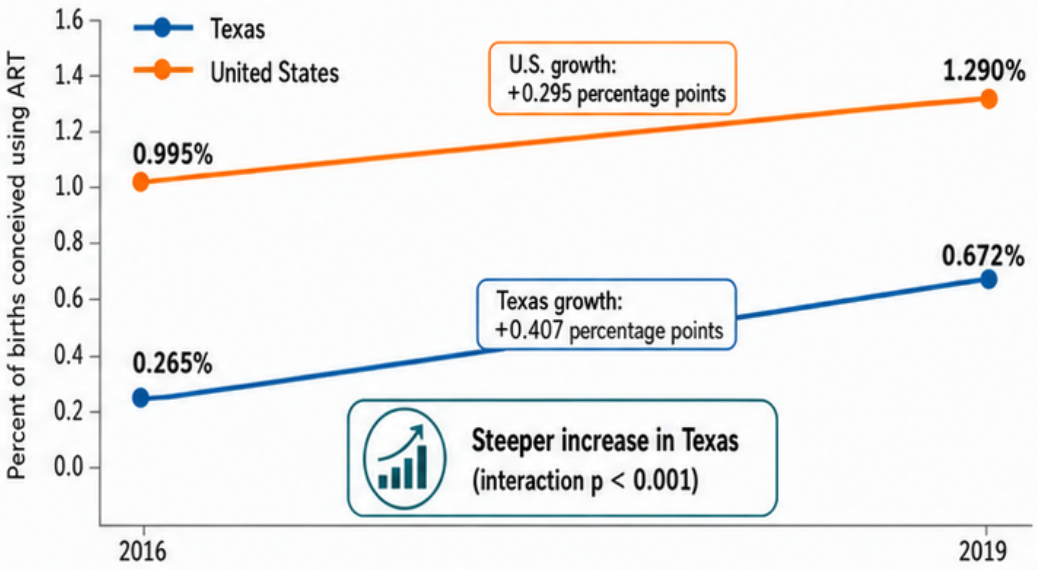
- Population-based retrospective observational study.
- Final natality data from the CDC WONDER database were analyzed for 2016–2019.
- Births were grouped by maternal state of residence: Texas versus United States overall.
- Primary outcome: proportion of births conceived using ART, defined by the birth certificate indicator "Assisted Reproductive Technology Used."
- Temporal trends were analyzed using regression modeling to compare annual changes in ART-associated births between Texas and national trends.

KEY RESULTS

- In Texas, ART-associated births increased from 0.265% (1,054 of 398,047 births) in 2016 to 0.672% (2,537 of 377,599 births) in 2019.
- Nationally, ART-associated births increased from 0.995% (78,488 of 7,891,750 births) in 2016 to 1.290% (96,712 of 7,495,080 births) in 2019.
- Regression analysis showed increasing odds of ART-associated birth annually in both groups.
- Texas demonstrated a significantly steeper increase than the United States overall (interaction $p < 0.001$).
- The largest increase in Texas occurred between 2018 and 2019.

RESULTS

Figure. Trends in assisted reproductive technology-associated births as a percentage of total births in Texas and the United States, 2016–2019



- ART-associated births increased in both Texas and the United States from 2016 to 2019.
- Texas remained lower in absolute proportion than the United States overall in both years.
- Texas experienced a larger absolute increase in ART-associated births (+0.407 percentage points) compared with the national increase (+0.295 percentage points).

From 2016 to 2019, ART-associated births increased in both Texas and the United States, but the rate of increase was disproportionately greater in Texas.

CONCLUSION

- ART-associated births increased nationally from 2016–2019; however, Texas experienced a disproportionately greater rate of growth.
- These findings suggest evolving regional patterns in reproductive technology utilization and may reflect expansion of ART access within Texas.

KEY TAKEAWAY

Texas outpaced the national trend in growth of ART-associated births from 2016 to 2019.

DATA SOURCE

- CDC WONDER natality data
- United States and Texas, 2016–2019
- Data extracted: 2026
- ART variable reported on birth certificates