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PREGNANCY OUTCOMES IN MATERNAL EXPOSURE TO GUSELKUMAB: REVIEW OF CASES REPORTED TO THE COMPANY'S GLOBAL SAFETY DATABASE

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Disclosure information

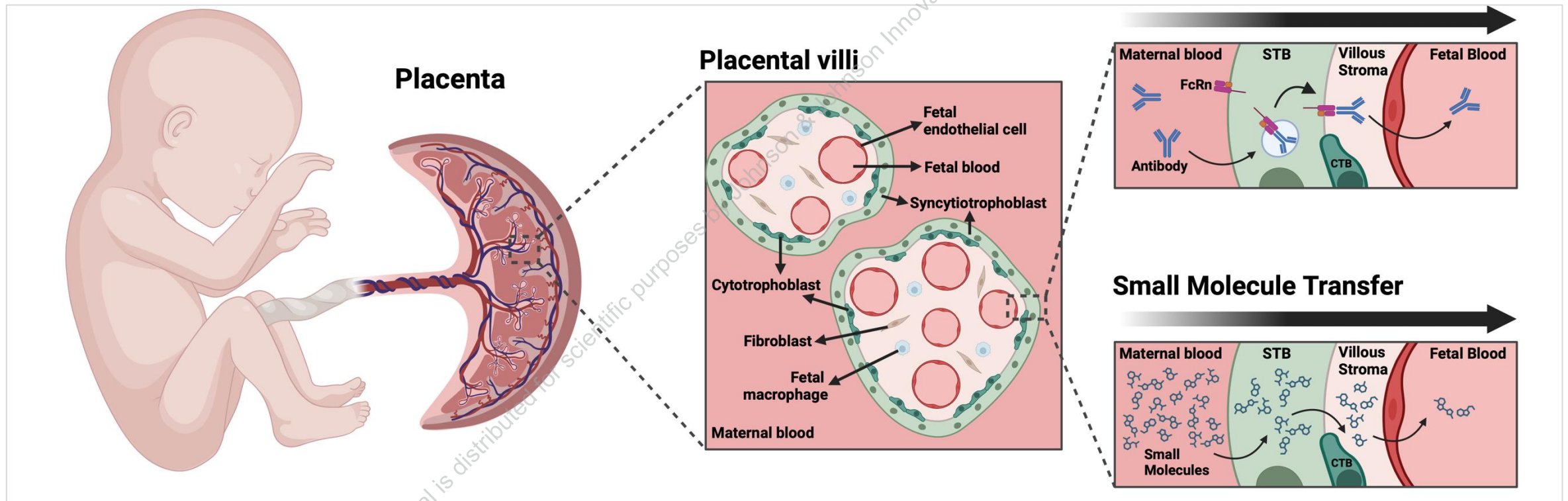
Uma Mahadevan

I disclose the following financial relationship(s) with a commercial interest:

I have served as a consultant and an advisory board member for AbbVie, Abivax, Bristol Myers Squibb, Celltrion, Disc, Enveda, Genentech, Gilead, Johnson & Johnson, Lilly, Merck, Pfizer, Sanofi, Takeda, and Trex.

Background

- The Global Consensus Consortium published a statement on the management of pregnancy in inflammatory bowel disease suggesting women can continue treatment with IL-23 inhibitors throughout pregnancy¹

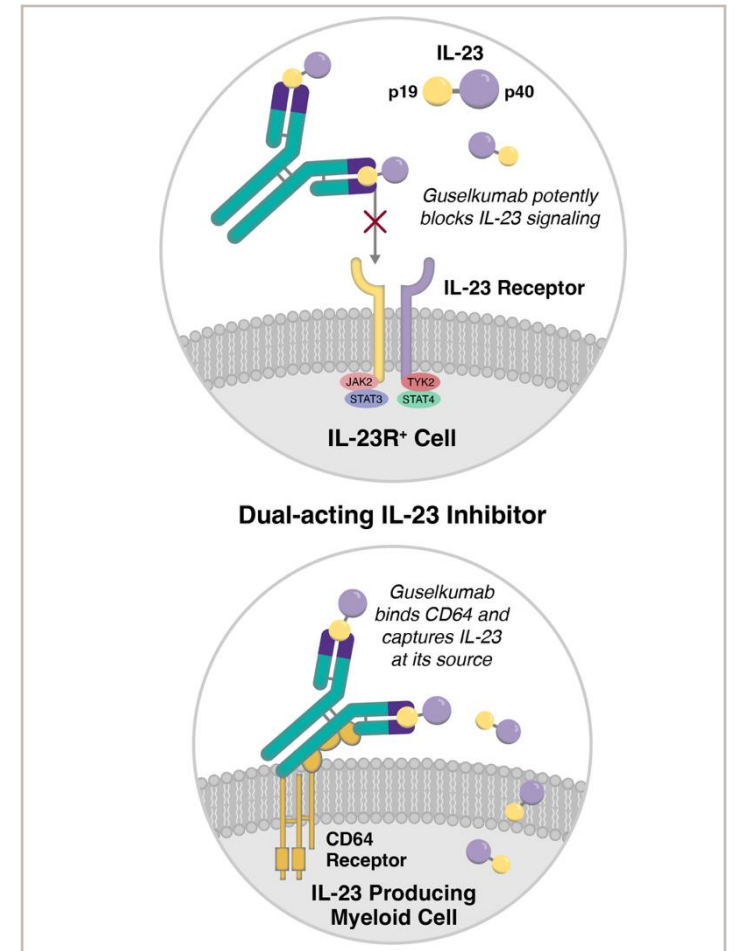


Background & Objective

- GUS is a dual-acting, selective IL-23p19 subunit inhibitor that blocks IL-23 and binds to CD64, a receptor on immune cells that produce IL-23¹
- GUS has received FDA approval for the treatment of:²
 - Moderate-to-severe plaque PsO (in 2017)
 - Active PsA (in 2020)
 - Moderately to severely active UC and CD (in 2024 and 2025, respectively)

Objective

- We report data on pregnancy cases with known outcomes in women exposed to GUS during pregnancy from the Company Global Safety Database



Methods

 ***Pregnancy cases that were reported to the Company Global Safety Database through July 12, 2025 were analyzed***

Reporting sources:

Interventional

- Data reported from clinical trials

Non-interventional

- Data reported from registries (eg, observational studies)

Spontaneous reporting

- Physician or self-reported (eg, unsolicited)

Timing of reporting:

Prospective data

- Collected from pregnancies with GUS exposure reported before outcomes were known

Retrospective data

- Included simultaneous reports of pregnancies and outcomes

Methods

 ***Pregnancy cases that were reported to the Company Global Safety Database through July 12, 2025 were analyzed***

 **Therapeutic indications were categorized as:**

- Psoriatic disease
- CD
- UC
- Other/not reported

 **Maternal GUS exposure occurred:**

- Preconception only
- Any T1: any exposure during the 1st trimester (T1 only; T1+T2; T1-T3)
- T2+T3: after 1st trimester
- T3 only: 3rd trimester exposure only
- NR: not reported

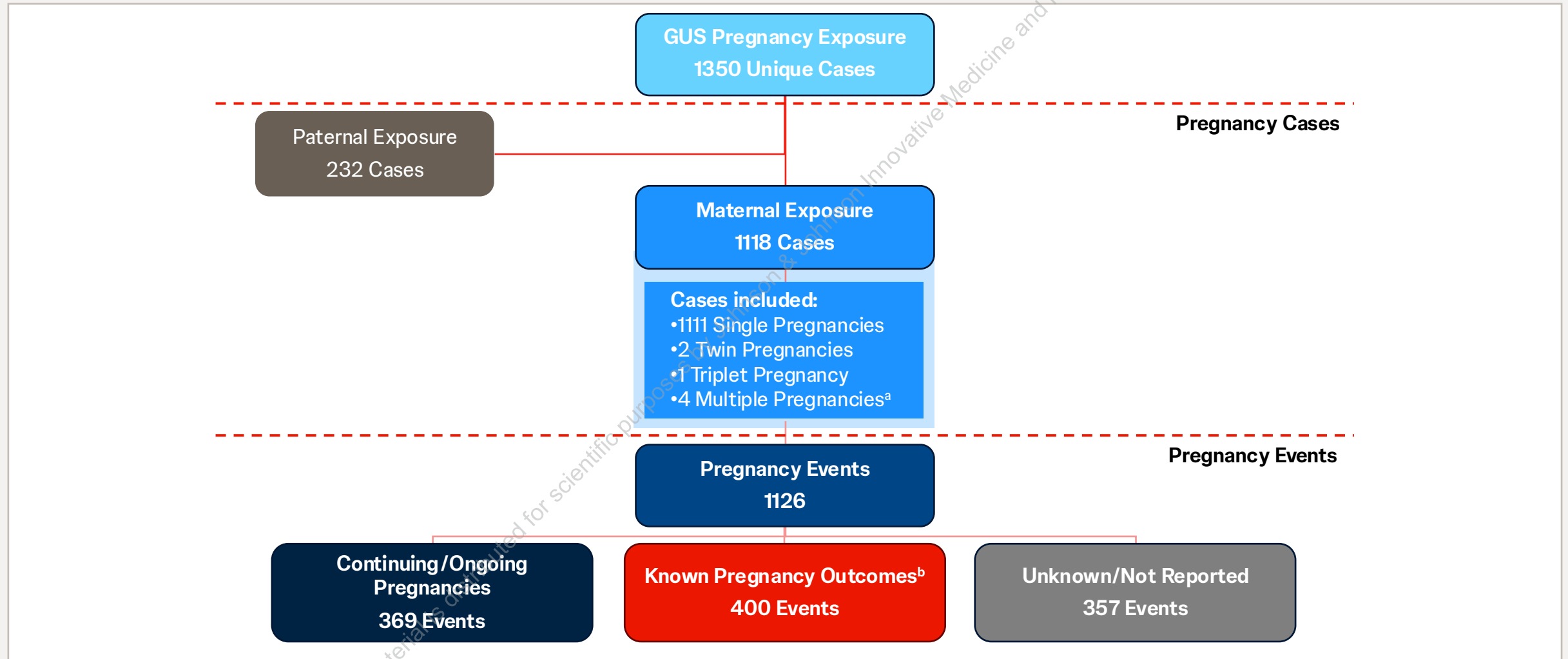
 **Pregnancy outcomes were classified as:**

- Live births
- Spontaneous abortions
- Elective terminations
- Ectopic pregnancies
- Stillbirths

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A total of 400 pregnancy events with known outcomes occurred among 396 women

- Maternal age was reported for 67% (264/396) of women; the mean maternal age was 32 years

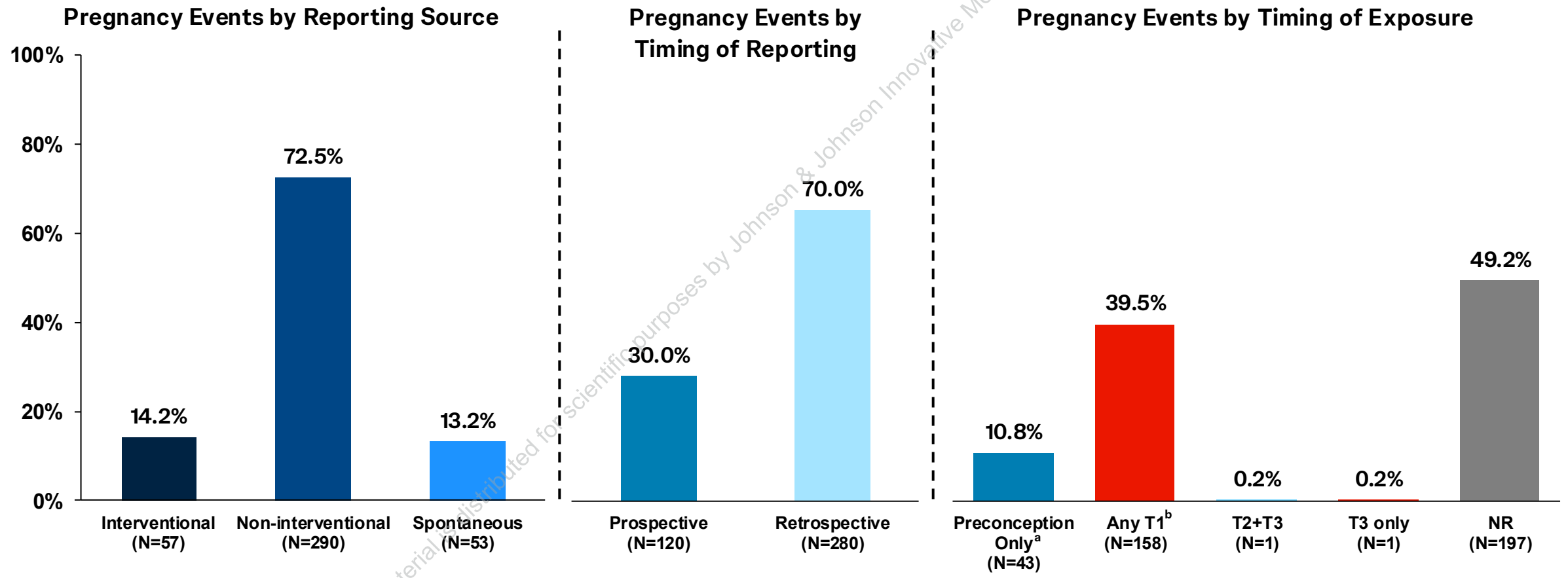


^aFour women had two single pregnancies each. ^bThese 400 events were from 287 medically confirmed pregnancies and 109 medically unconfirmed pregnancies.

Most pregnancy events were from retrospective reports and non-interventional settings

- Among cases with data reported, GUS exposure during the 1st trimester was most common

Distribution of Pregnancy Events by Reporting Source, Timing of Reporting & Exposure

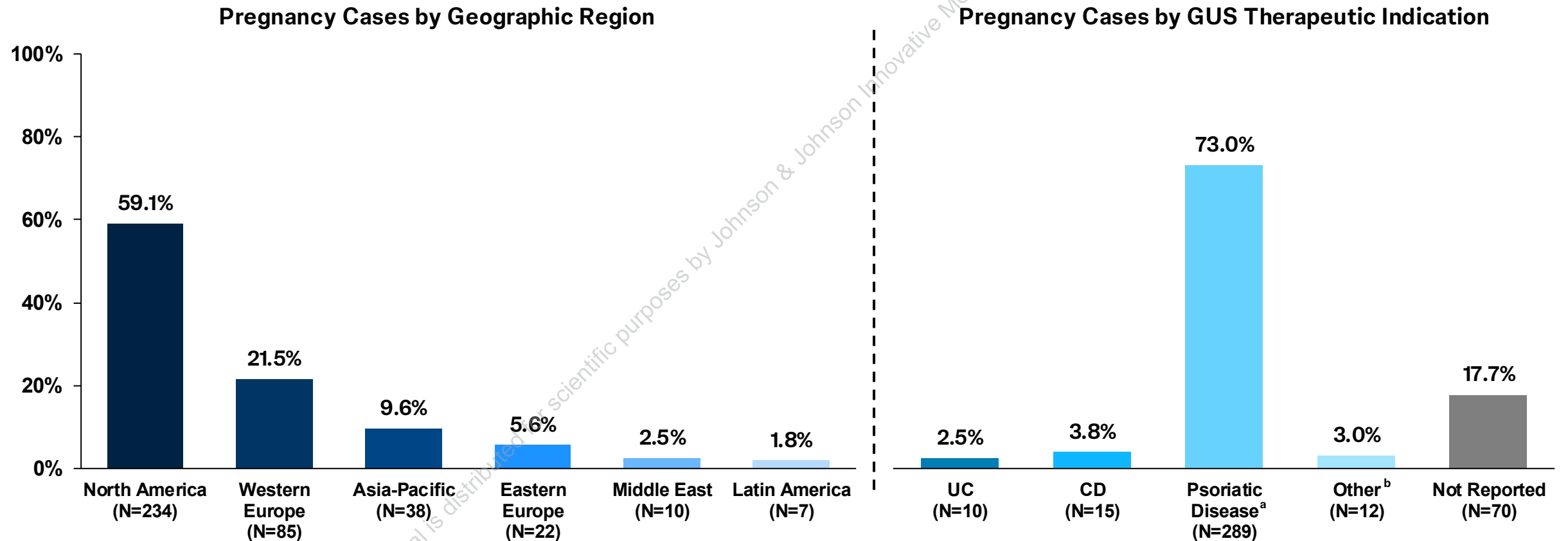


^aPreconception only=within 3 months prior to conception. ^bAny T1 includes 105 events with exposure only during T1, 8 events with T1+T2, 18 events with T1+T2+T3, and 27 events with T1 and possible T2 and/or T3 exposure. NR=timing of exposure was not reported, T1=exposure during the 1st trimester and T2/NR, T1=exposure during the 1st trimester only, T2+T3=exposure after the first trimester, T3=exposure during the 3rd trimester only.

Women living in North America and Western Europe comprised the majority of pregnancy cases

- Among cases with reported therapeutic indication, GUS was mostly used to treat psoriatic disease

Distribution of Pregnancy Cases by Geographic Region and GUS Therapeutic Indication

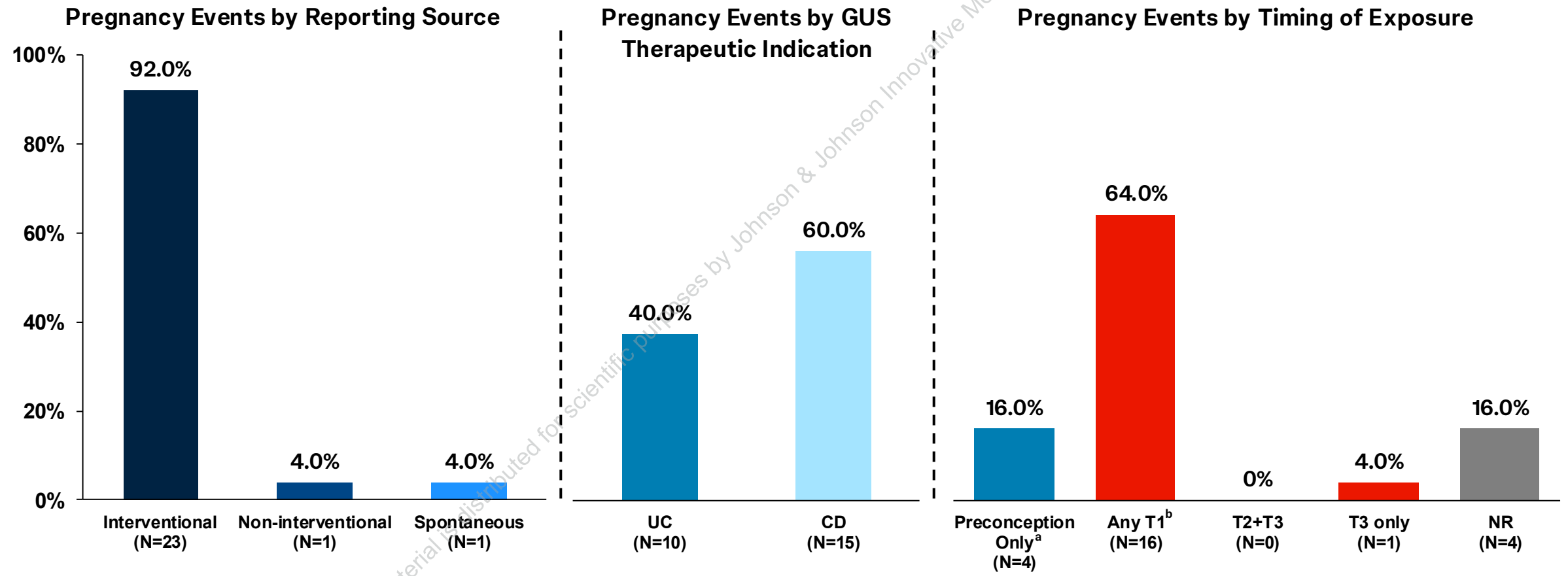


^aIncludes cases reporting indications as PsO, PsA, and PsO + PsA. ^bOther indications included hidradenitis suppurativa, palmoplantar pustulosis, guttate PsO, pityriasis rubra pilaris, rheumatoid arthritis, and healthy individuals from Phase 1 studies.

Most pregnancy events reporting indication of IBD were for CD treatment and from interventional studies

- The 1st trimester was most common time period for GUS exposure

Distribution of IBD Pregnancy Events by Reporting Source, Indication, and Timing of Exposure

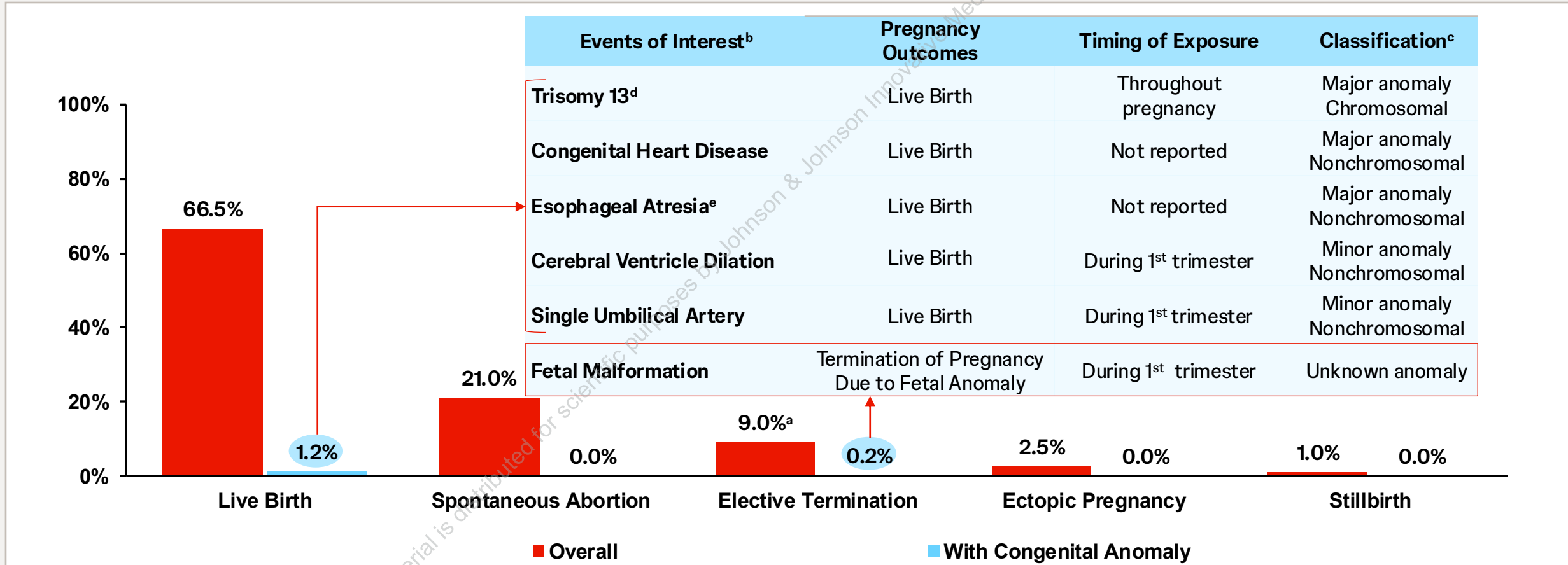


^aPreconception only=within 3 months prior to conception. ^bAny T1 includes 14 events with exposure only during T1, 1 event with T1+T2+T3, and 1 event with T1 and possible T2 and/or T3 exposure. NR=timing of exposure was not reported, T1=exposure during the 1st trimester and T2/NR, T1=exposure during the 1st trimester only, T2+T3=exposure after the first trimester, T3=exposure during the 3rd trimester only.

66.5% (266/400) of pregnancy events with maternal exposure to GUS resulted in live birth

Of the 400 pregnancy events with known outcomes, 6 (1.5%) pregnancies were associated with congenital anomalies

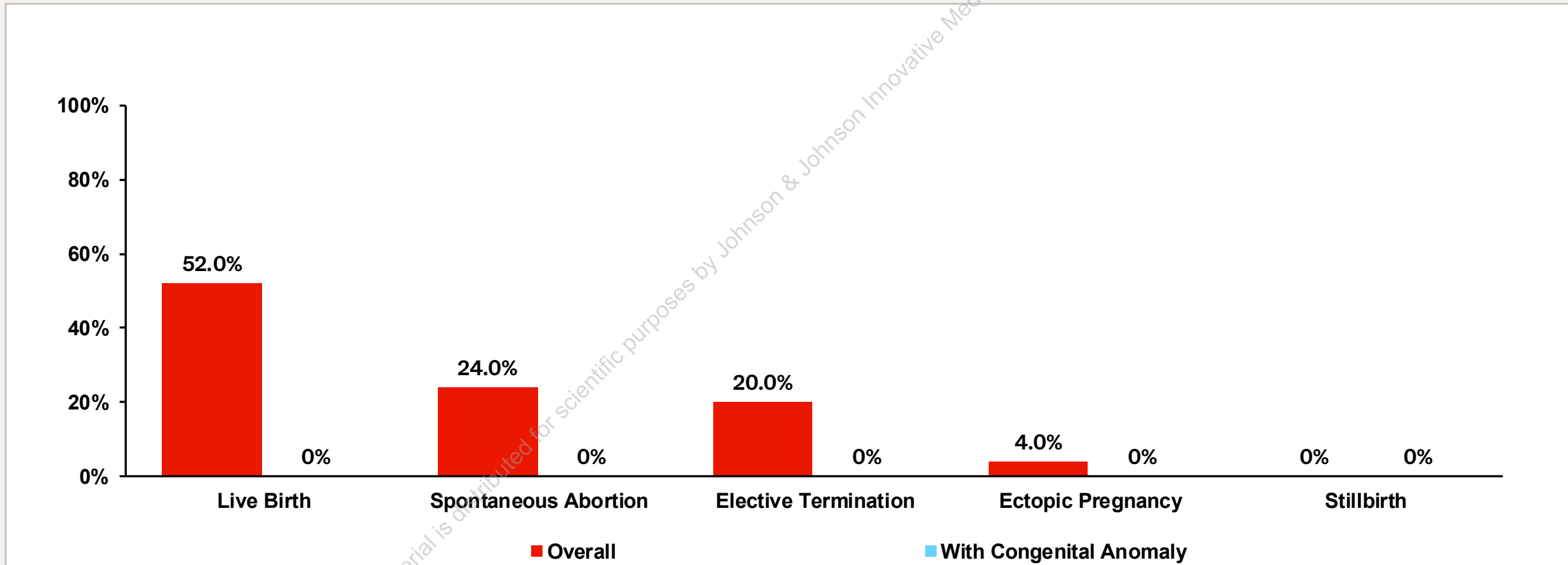
- All pregnancy cases associated with congenital anomalies were reported retrospectively



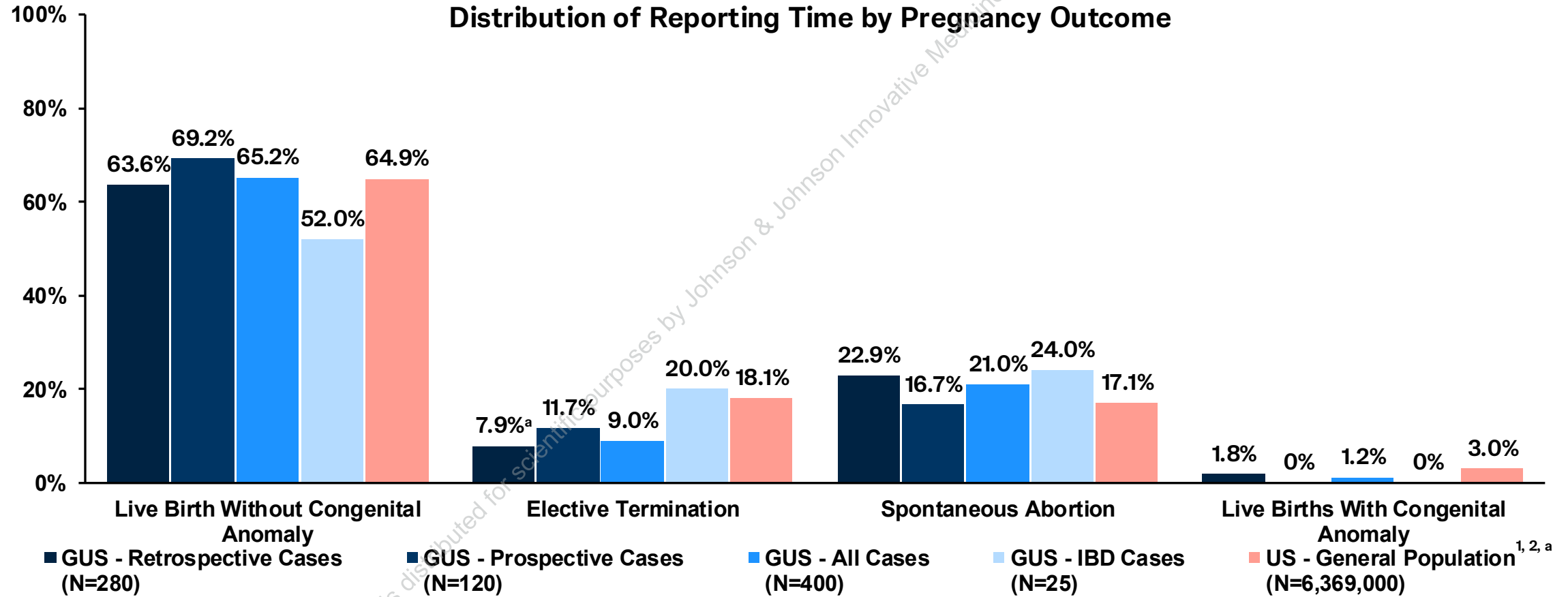
^aOne case reported baby adverse event of fetal disorder with no further information; conservatively, it was categorized as a fetal defect. ^bMedical Dictionary for Regulatory Activities (MedDRA, version 28.0) was used to identify adverse events based on the System Organ Class of congenital, familial, or genetic disorders, which is sub-search of the Standardized MedDRA Query of pregnancy and neonatal topics. ^cMajor and chromosomal congenital anomalies per EUROCAT classification are reported unless otherwise specified. ^dPre-term delivery at less than 37 weeks; baby died due to Trisomy 13. ^eBaby adverse event of tracheomalacia was reported.

52.0% (13/25) of IBD pregnancy events with maternal exposure to GUS resulted in live birth

Of the 25 pregnancy events with IBD indication, no pregnancies were associated with congenital anomalies



Pregnancy outcomes with maternal exposure were consistent with the US general population



¹Curtin SC, et al. *Pregnancy Rates for U.S. Women Continue to Drop*. Centers for Disease Control and Prevention, U.S. Dept of Health and Human Services; 2013:1-7. ²About Birth Defects. U.S. Centers for Disease Control and Prevention. February 25, 2025.

^aCongenital anomalies affect 1 in every 33 babies in the United States.

Key Takeaways



The findings of this study suggest no apparent impact of GUS on pregnancy outcomes



Live births, elective terminations, spontaneous abortions, and congenital anomalies were consistent with the US population



More studies are warranted to confirm these observations and to further characterize the safety profile of GUS exposure during pregnancy

Results should be interpreted cautiously given data limitations:

- **Lack of study control**
- **Small sample size of pregnancies with known outcomes**
- **Data were reported with varying degrees of missing information**

ACKNOWLEDGEMENTS

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