

Pregnancy Outcomes in Maternal Exposure to Guselkumab: Review of Cases Reported to the Company's Global Safety Database

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Background

- The Global Consensus Consortium statement on the management of pregnancy in inflammatory bowel disease suggests women can continue treatment with interleukin (IL)-23 inhibitors throughout pregnancy¹
- Guselkumab (GUS) is a dual-acting selective p19 subunit-targeted IL-23 inhibitor that blocks IL-23 signaling and binds to CD64, a receptor on immune cells that produce IL-23²
- GUS is approved to treat moderate-to-severe psoriasis (PsO), active psoriatic arthritis (PsA), and moderately to severely active ulcerative colitis (UC) and Crohn's disease (CD)³

Objectives

- In this analysis, we report data on pregnancy cases with known outcomes in women exposed to GUS during pregnancy

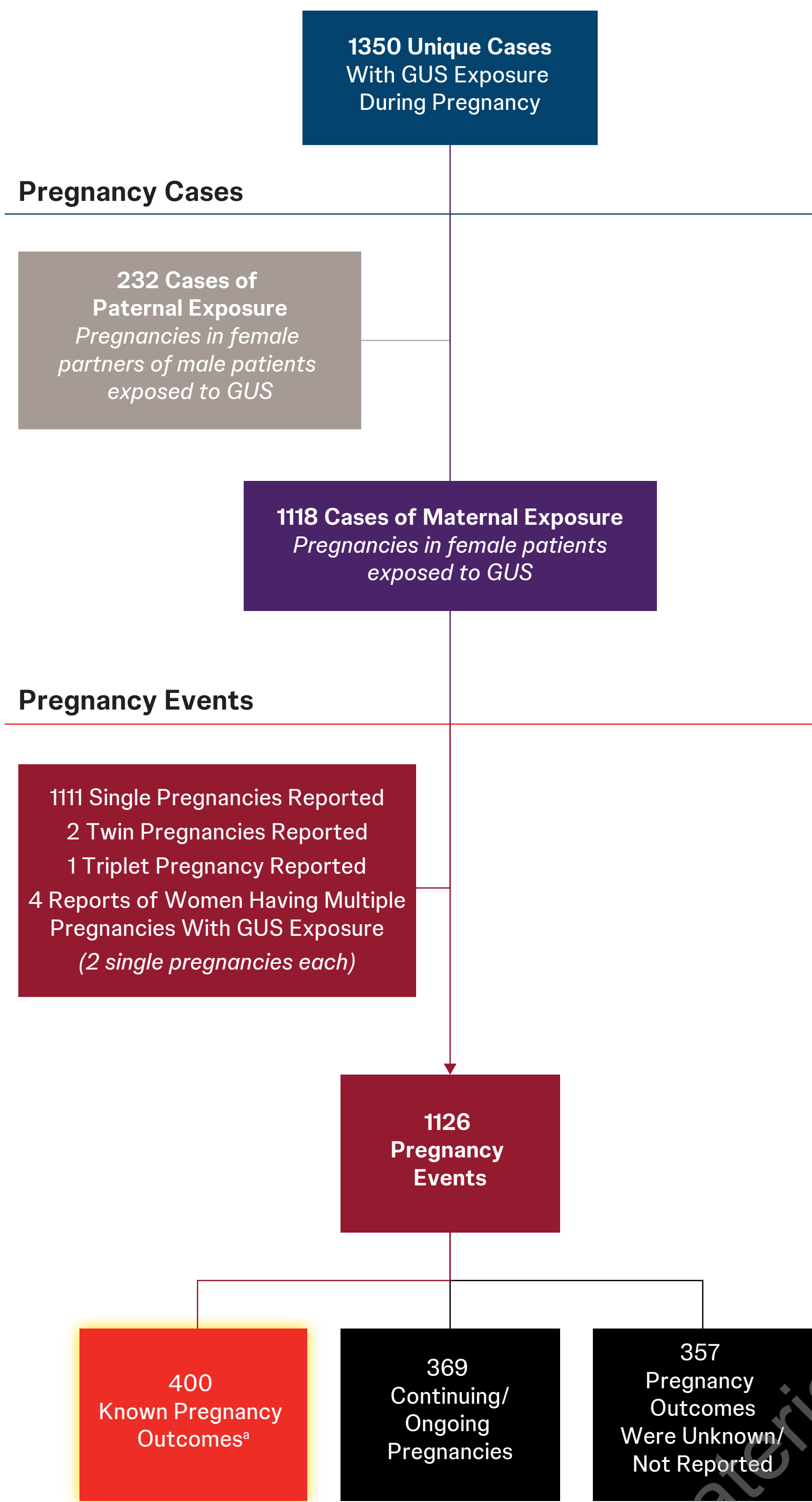
Methods

- Pregnancy cases were reported to the Company's Global Safety Database through 12 July 2025**
 - Cases with known outcomes were reported from clinical studies and spontaneous sources
- Data were summarized descriptively for pregnancies reported prospectively and retrospectively**
- GUS therapeutic indications in pregnancy cases were:**
 - Psoriatic disease
 - CD
 - UC
 - Other/not reported
- Maternal GUS exposure was categorized as follows:**
 - Before conception (within 3 months prior to conception)
 - During the first trimester (T1)
 - After the first trimester only (T2, T3)
 - Throughout pregnancy
 - Not reported
- Pregnancy outcomes were classified as:**
 - Live births with or without congenital anomalies
 - Spontaneous abortions
 - Elective terminations with or without fetal defects or unknown
 - Ectopic pregnancies
 - Stillbirths with or without fetal defects
 - Unspecified abortions with or without fetal defects or unknown

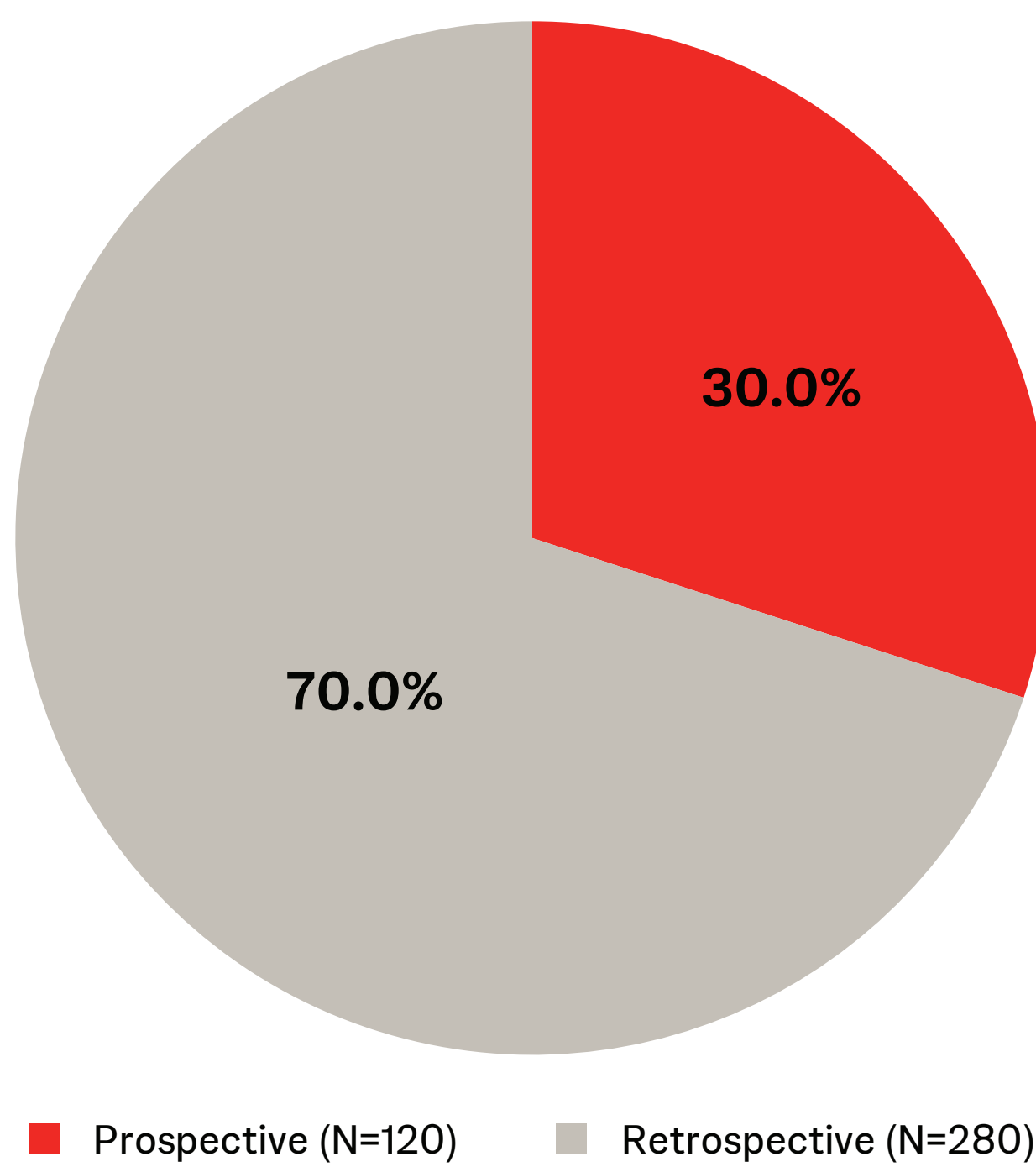
Results

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

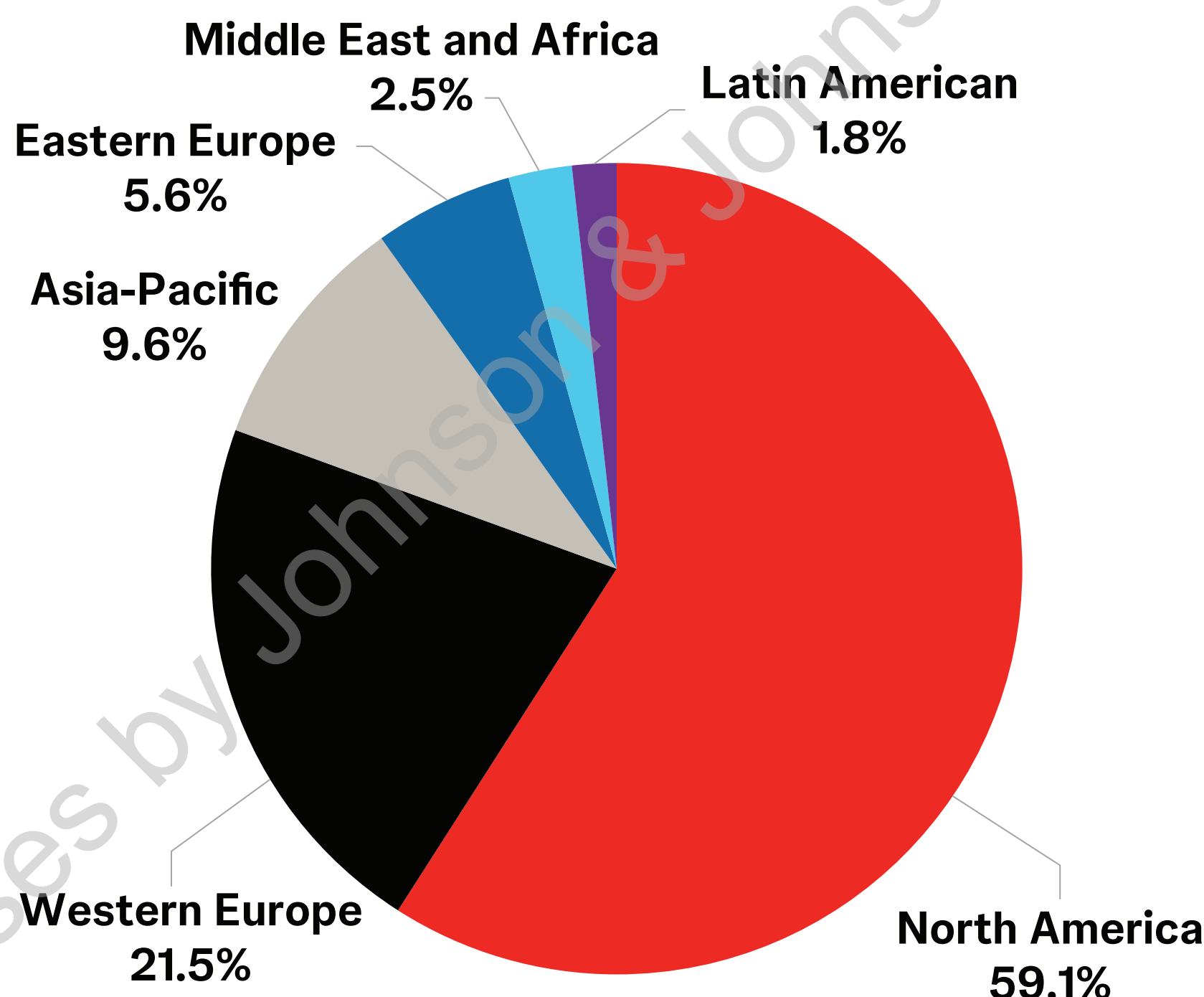
- Maternal age was reported for 264/396 (67%) women, and the mean maternal age was 32 years



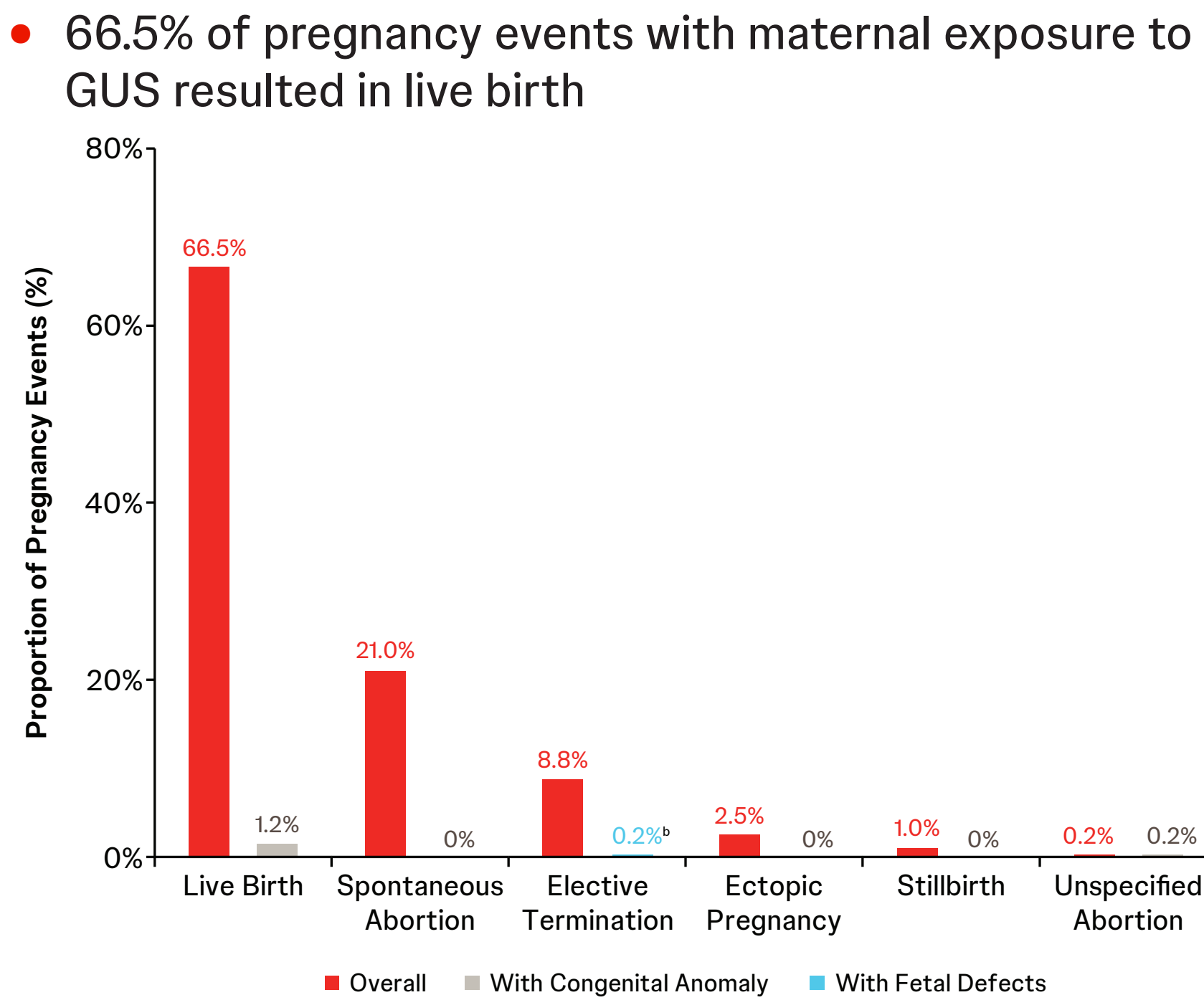
Proportions of prospectively and retrospectively reported pregnancy events, N=400



Proportions of pregnancy cases reported by geographic region, N=396



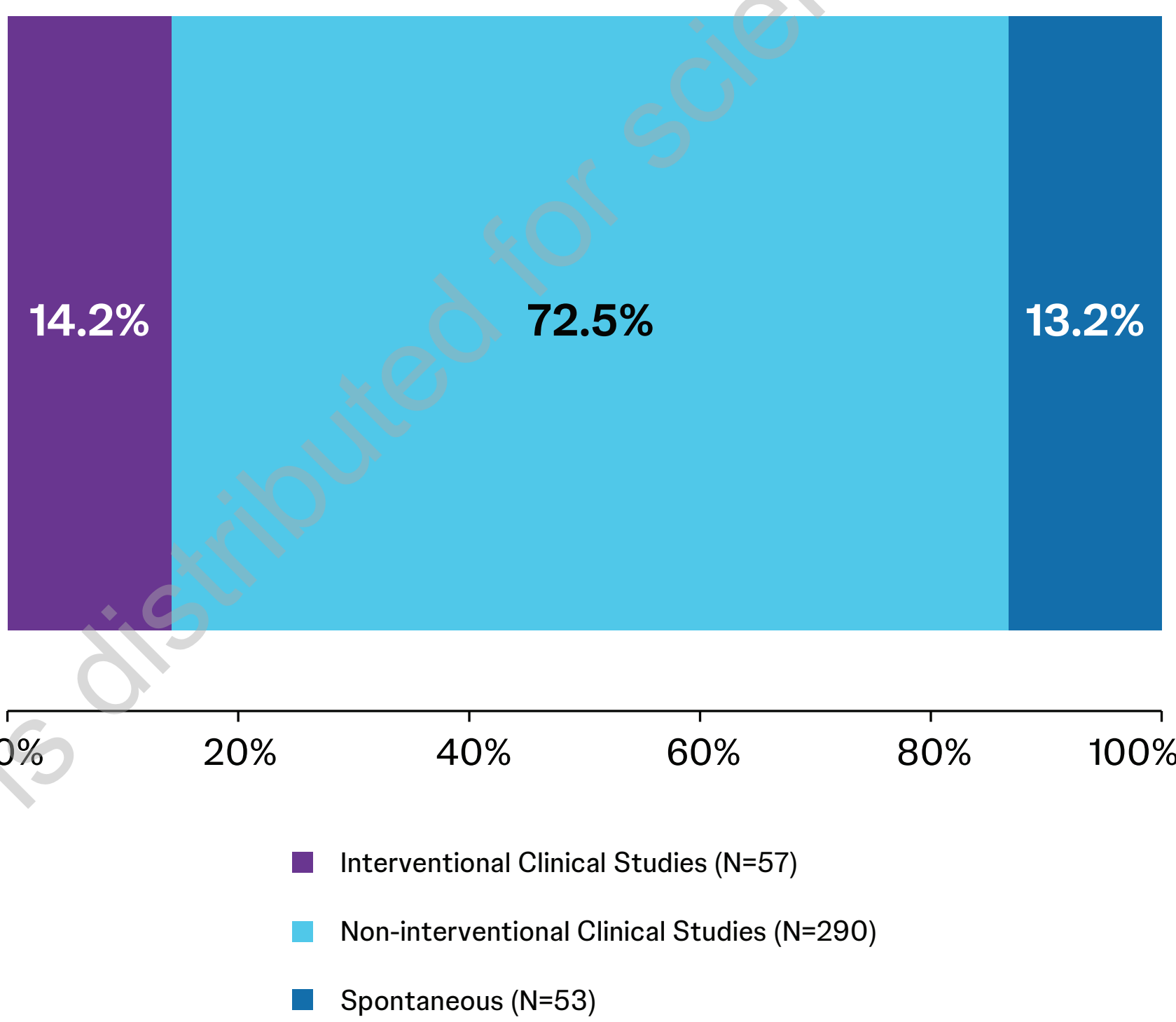
Proportions of pregnancy events by outcome, N=400



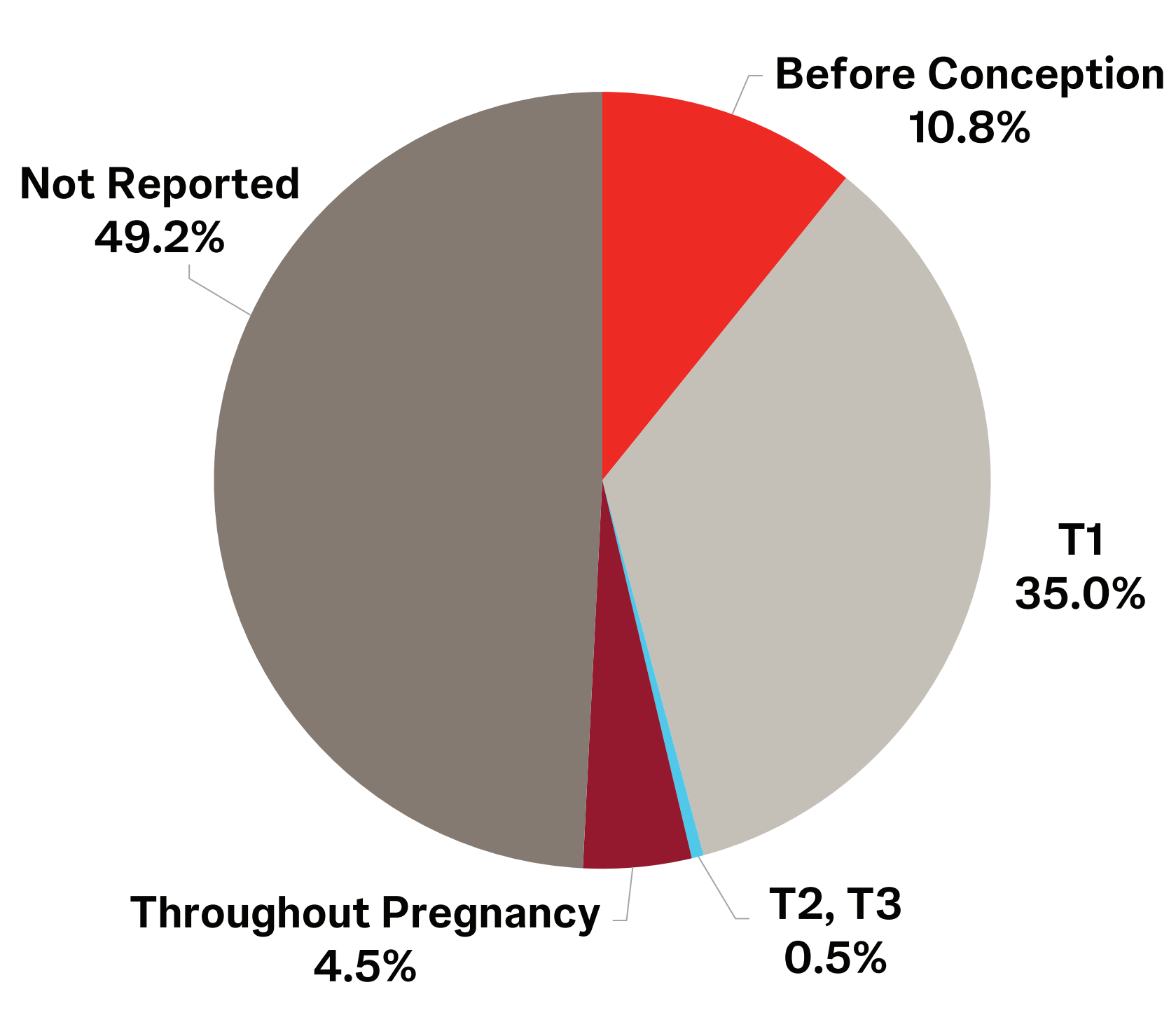
Women exposed to GUS during pregnancy were treated for the following:

	Indication (N=396)	
	n-value	Percentage
Psoriatic Disease ^d	289	73.0%
Not Reported	70	17.7%
Inflammatory Bowel Disease	25	6.3%
CD	15	3.8%
UC	10	2.5%
Other ^e	12	3.0%

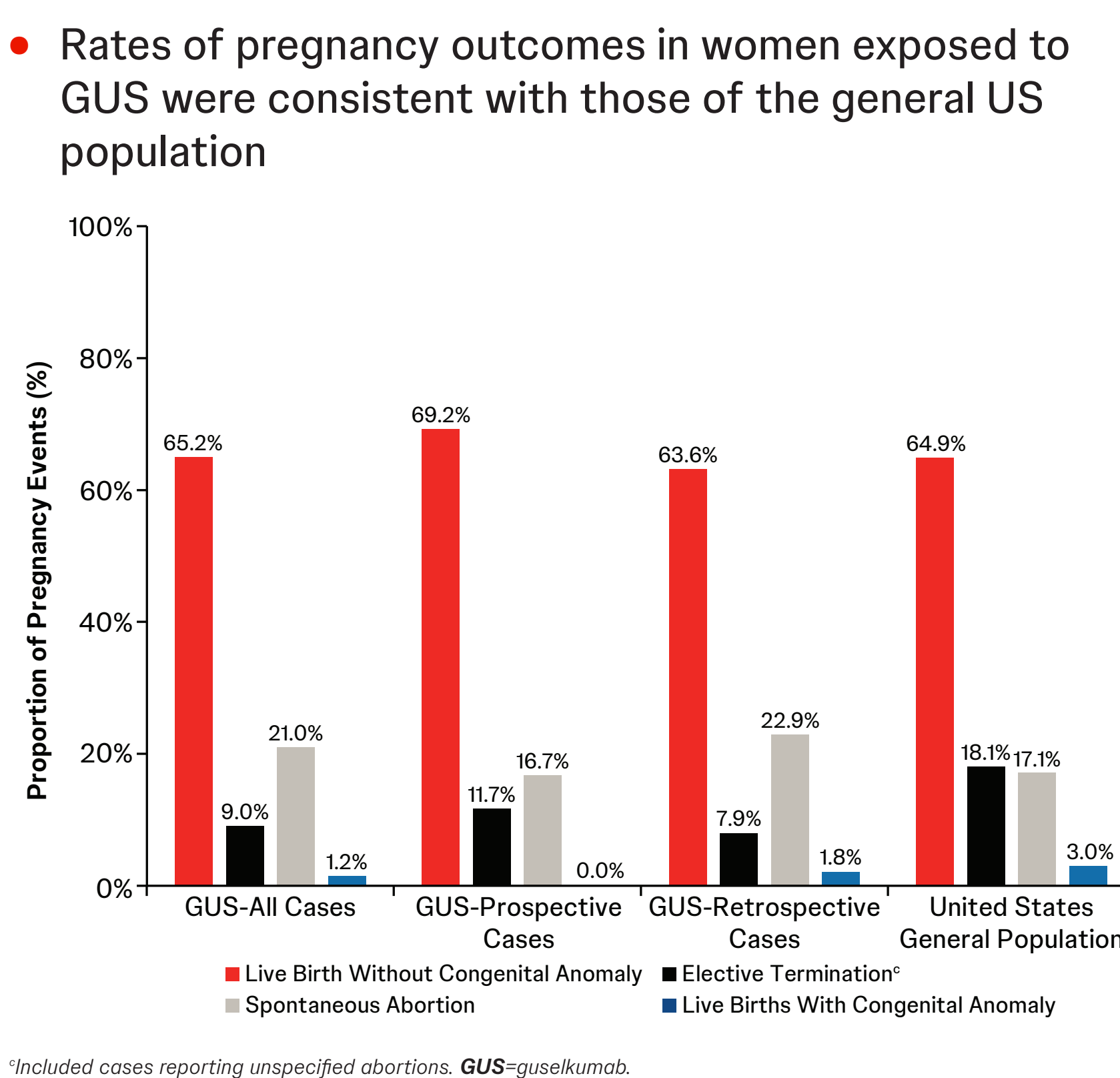
Proportions of pregnancy events by reporting source, N=400



Proportions of pregnancy cases reported by timing of exposure, N=400



Rates of pregnancy outcomes with maternal exposure vs United States general population^{4,5}



Congenital anomalies by pregnancy outcome and timing of exposure

Events of Interest ^f	Number of Events	Pregnancy Outcomes	Timing of Maternal Exposure	Classification ^g
Trisomy 13 ^h	1	Live Birth	Throughout pregnancy	Major anomaly Chromosomal
Congenital Heart Disease	1	Live Birth	Not reported	Major anomaly Nonchromosomal
Esophageal Atresia ⁱ	1	Live Birth	Not reported	Major anomaly Nonchromosomal
Cerebral Ventricle Dilation	1	Live Birth	During the first trimester	Minor anomaly Nonchromosomal
Single Umbilical Artery	1	Live Birth	During the first trimester	Minor anomaly Nonchromosomal
Fetal Malformation	1	Unspecified Abortion	During the first trimester	Termination of pregnancy due to fetal anomaly

¹Includes 287 medically confirmed pregnancies and 109 medically unconfirmed pregnancies. GUS=guselkumab.

T1=first trimester, T2=second trimester, T3=third trimester.

⁴Included cases reporting unspecified abortions. GUS=guselkumab.

PRESENTED BY: Allison Hester at the Rheumatology Advanced Practice Providers (RbAPP)™ Annual National Conference, September 23-26, 2026, Las Vegas, Nevada, USA. **REFERENCES:** 1. Mahadevan U, et al. *J Crohns Colitis*. 2025;19:jaf129. 2. Sachin KL, et al. *Front Immunol*. 2025;16:532852. 3. TREMFYA. Package insert. Janssen Biotech, Inc.; 2025. 4. Curtin SC, et al. Pregnancy Rates for US Women Continue to Drop. Centers for Disease Control and Prevention, US Dept of Health and Human Services; 2013:1-7. 5. About Birth Defects. US Centers for Disease Control and Prevention. February 25, 2025. **ACKNOWLEDGMENTS:** Medical writing support was provided by Alysia Cortina, PharmD, under the direction of the authors in accordance with Good Publication Practice guidelines (*Ann Intern Med*. 2022;175:1298-1304). Layout design and formatting for this encore presentation were provided by Amit Kavle (SIRO Medical Writing Pvt. Ltd., India). This study and presentation were sponsored by Johnson & Johnson. **DISCLOSURES:** UM has served as a consultant and an advisory board member for AbbVie, Allergan, Bristol Myers Squibb, Gilead, Johnson & Johnson, Merck, Lilly, Pfizer, Prometheus, Roivant, Sanofi, Spyre, Target RWE, and Takeda. **CL** has reported research support from Celtrion, Eli Lilly, Pfizer, and Takeda, and has consulted for AbbVie, Bristol Myers Squibb, Celtrion, Intercept, Johnson & Johnson, Merck, Lilly, Pfizer, Prometheus, Roivant, Sanofi, Spyre, Target RWE, and Takeda. **MJ** has reported research grants for investigator-driven studies from Novo Nordisk Foundation and Takeda (grant no. NNP230C0081717); has consulted for Ferring, Orion Pharma, and Takeda; has received speaker's fees from Eli Lilly, Ferring, MSD, Takeda, and is on the advisory board of AbbVie, Eli Lilly, PharmaCosmos, and Tiltotts Pharma. **CL**, **AG**, **MRB**, **HL**, and **AH** are employees of Johnson & Johnson and may own stock/stock options in Johnson & Johnson. **JPG** has received grants from AbbVie, Biogen, Casen Fleet, Celgene/Bristol Myers Squibb, Chiesi, Dr. Falk Pharma, Faes Pharma, Ferring, Gabro Pharma, Gilead/Galapagos/Alfasigma, Johnson & Johnson, Kern Pharma, Eli Lilly, MSD, Mylan, Norgine, Italfarmaco, Otsuka Pharmaceutical, Pfizer, Roche, Sandoz, Takeda, Sanofi, Shire Pharmaceuticals, STADA, Teva, Tiltotts Pharma, and Vifor Pharma. **MC** has received grants from AbbVie, Biogen, Johnson & Johnson, Eli Lilly, and Pfizer; has received fees from AbbVie, Faes, Johnson & Johnson, and Pfizer. **PREVIOUSLY PRESENTED AT:** The European Crohns and Colitis Organisation (ECCO), February 18-21, 2026, Stockholm, Sweden.