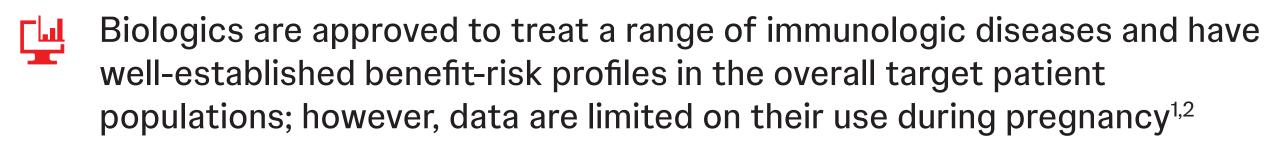
# Pregnancy Outcomes in Women Exposed to Guselkumab: Review of Cases Reported to the Manufacturer's Global Safety Database

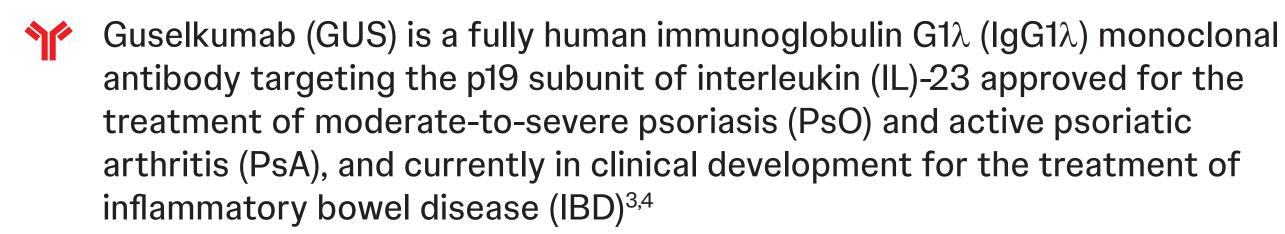


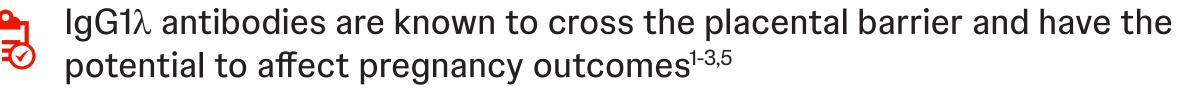
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## Background







#### Objective

Here, we assess pregnancy outcomes in pregnant women exposed to GUS

## Methods

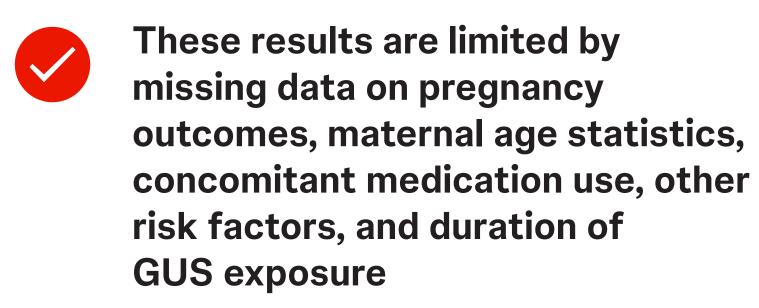
- Cumulative data through 12 July 2023 from the Janssen Global Safety Database, including medically confirmed and unconfirmed pregnancies reported from various sources, are summarized descriptively for pregnancies with maternal exposure to GUS:
- Before conception (within 3 months prior to confirmed pregnancy)
- During the first trimester (T1)
- After the first trimester (T2, T3)
- During all pregnancy
- Pregnancy data were also analyzed as:
- Prospectively reported pregnancies (ie, pregnancy outcome is not known when first reported)
- Retrospectively reported pregnancies (ie, pregnancy outcome is known when first reported)

- Pregnancy outcomes were classified as:
- Live births with or without congenital anomalies
- Spontaneous abortions and missed abortions
- Elective terminations, induced abortions, or unspecified abortions with or without fetal defects
- Stillbirths
- Fetal deaths
- Ectopic pregnancies
- Pregnancies that are ongoing or that have no reported outcome

### **Key Takeaways**

Among pregnancy cases with known outcomes, rates of live births, spontaneous and elective/induced abortions, and congenital anomalies in pregnancies with maternal exposure to GUS ≤3 months before or during pregnancy are consistent with rates reported for the United States general population,<sup>6,7</sup> suggesting no apparent impact of GUS on pregnancy outcomes





Additional evidence is needed to increase our understanding of pregnancy outcomes with exposure to GUS across disease indications

#### Results

590 pregnancy outcomes<sup>a</sup> (including twins [2] and triplets [1]) in 586 women exposed to GUS have been reported through 12 July 2023

- Mean maternal age in those with reported data (N=349) was 32 years (median [range], 32 [19-56])
- Mean duration of GUS exposure prior to pregnancy, in cases reporting this information (N=158), was 385 days (median [range], 238 [0-1717])
- 59.0% of the women exposed to GUS were from North America (Figure 1)
- 67.4% of GUS exposures were reported from non-interventional clinical studies and support programs (**Figure 1**)
- 85.6% of pregnancy outcomes were reported prospectively (Figure 2)
- Among cases in which the GUS therapeutic indication was reported, 90.0% were PsO (Figure 2)
- Among cases with data allowing for calculation of the timing of GUS exposure,
   77.8% occurred during T1 (Figure 2)

<sup>a</sup>Includes known and unknown pregnancy outcomes.

Figure 1. Maternal GUS Exposure: Geographic Region and Reporting Source (N=586)

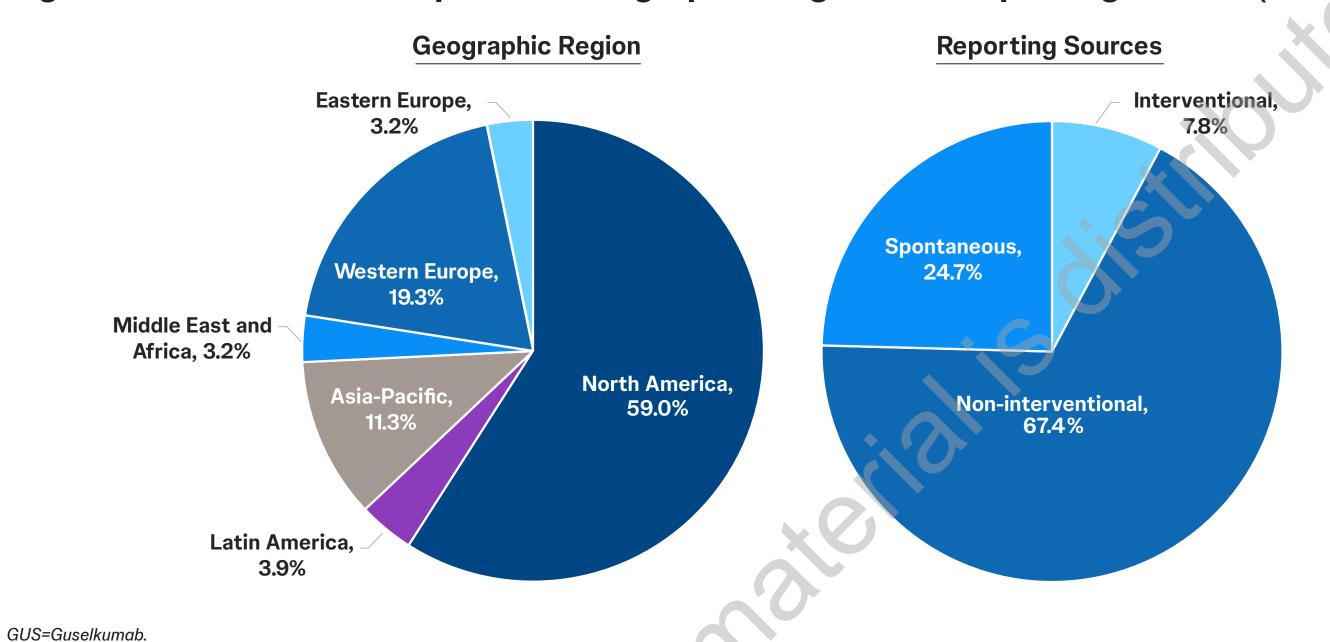
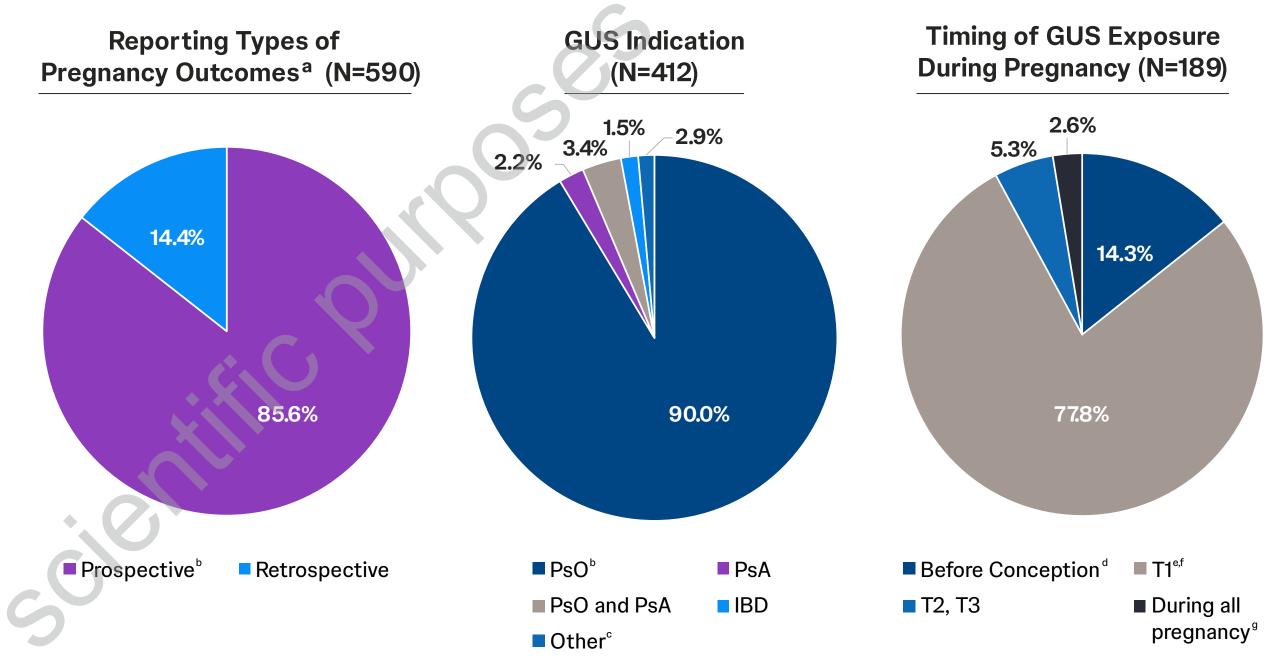


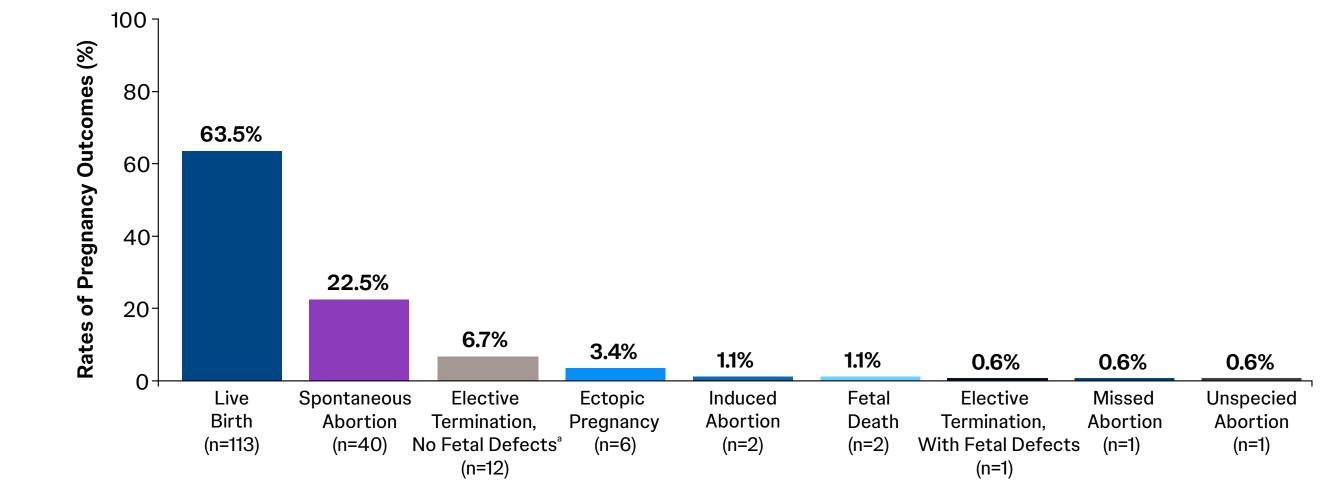
Figure 2. Maternal GUS Exposure: Reporting Types, Indication, and Timing of GUS Exposure



"Includes known and unknown pregnancy outcomes; blincludes 2 twin pregnancies and 1 triplet pregnancy; of the includes the following indications: Hidradenitis and PsO, Palmoplantar pustulosis, PsO and Guttate PsO, PsO and Rheumatoid arthritis, Pustular PsO, and healthy patients; alncludes exposure only within 3 months prior to confirmed pregnancy; are cases reporting either second or third trimester exposure along with the first trimester exposure have been counted only once under T1; flincludes 1 twin pregnancy; acres reporting exposure to GUS in all 3 trimesters have been counted only once under 'During All Pregnancy' category. GUS=Guselkumab; IBD=Inflammatory bowel disease; PsA=Psoriatic arthritis; PsO=Psoriasis; T=Trimester.

#### Known outcomes were reported for 178 (30.2%) pregnancies

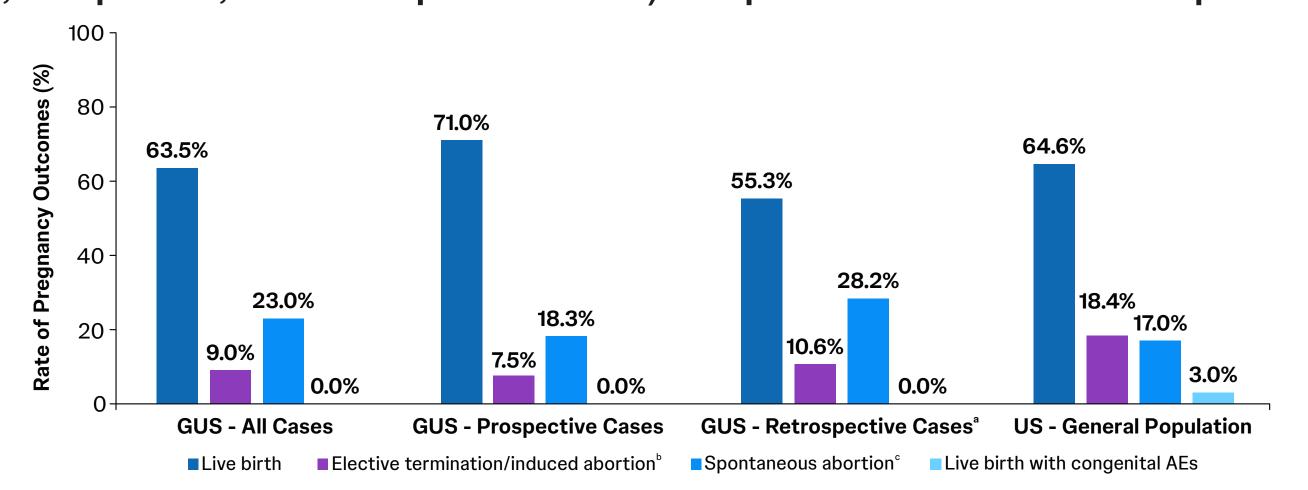
Figure 3. Rates of Known Pregnancy Outcomes for GUS-treated Patients



No cases of live birth with congenital anomaly, unspecified abortion (no fetal defects or unknown), or stillbirth occurred. Includes no fetal defects or unknown. GUS=Guselkumab.

Rates of pregnancy outcomes were consistent with those for the United States general population<sup>6,7</sup>

Figure 4. Rates of Known Pregnancy Outcomes for GUS-treated Patients (All, Prospective, and Retrospective Cases) Compared to the US General Population



In GUS-all cases, the rate of ectopic pregnancy was 3.4% and the rate of fetal death was 1.1%; no cases of stillbirth occurred. aRetrospective cases are subject to reporting bias and should be interpreted with caution; Count included cases reporting unspecified abortion; Count included cases reporting missed abortion. AEs=Adverse events; GUS=Guselkumab; US=United States.

Table 1. Pregnancy Outcomes by Reported Timing of Maternal Exposure to GUS

Trimester of GUS exposure during pregnancy <sup>a</sup>	Cases with known outcomes	Pregnancy outcome										
		Live birth without congenital anomaly	Live birth with congenital anomaly	Abortion				Elective termination				
				Spontaneous	Induced	Missed	Unspecified	No fetal defects or unknown	With fetal defects	Ectopic pregnancy Fe	Fetal death	Stillbirth
Before conception	13	10	0	2	0	0	0	1	0	0	0	0
During first trimester	73	44	0	16	1	1	<b>1</b> b	6	1	1	2	0
After first trimester	4	3	0	0	0	0	0	1	0	0	0	0
During all pregnancy	3	3	0	0	0	0	0	0	0	0	0	0
Total	93	60°	0	18	1	1	1	8	1	1	2	0

<sup>a</sup>Cases reporting exposure to GUS in all 3 trimesters have been counted only once under 'During all pregnancy' category. Cases reporting either second or third trimester exposure along with first trimester exposure have been counted only once under 'First trimester' category; <sup>b</sup>One case reported congenital anomaly (fetal malformation not specified); <sup>c</sup>Includes five cases of premature birth. GUS=Guselkumab.