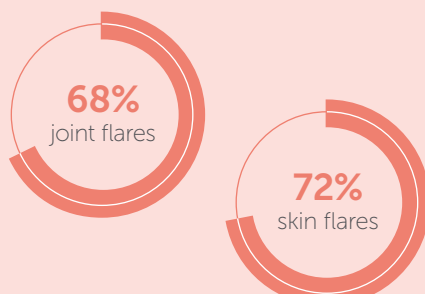


Disease control of moderate-to-severe psoriasis (PSO) is crucial, including for women of childbearing potential.^{1,2} However, many women with psoriasis stop treatment during pregnancy^{3,4}

Pregnancy can have an unpredictable effect on psoriasis⁵

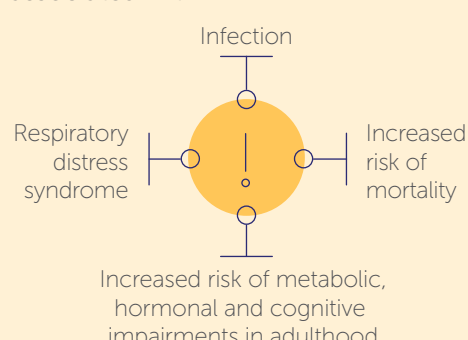
Women with psoriatic disease may experience skin disease worsening during pregnancy^{a,6}



Postpartum, 68% of women with psoriatic disease experience disease flares⁶

High disease activity can increase the risk of pregnancy complications, including neonate complications such as preterm birth and low birth weight⁷

Preterm birth and low birth weight are associated with:⁸⁻¹²



Many women stop treatment during pregnancy

65% of PSO patients may stop treatment during pregnancy due to different reasons:^{b,3,4}

79% did so out of fear of harming their baby⁴

33% stopped due to misinformation³

44% experienced a worsening in the severity of their disease⁴

57% of dermatologists consider their knowledge about the impact of treatments on pregnancy suboptimal^{c,13}

54% of dermatologists reported being comfortable with prescribing anti-tumour necrosis factor (TNF) for women of childbearing age^{d,4}

Stopping treatment can lead to higher rates of disease flares¹⁴

Rates of flare in pregnant women with immune-mediated inflammatory diseases (IMIDs) who, prior to conception:¹⁴



Stopping biologic therapy increases the risk of disease flare and the need to treat with corticosteroids, which may in turn increase the risk of:¹⁵

- Gestational diabetes
- Infection
- Preterm premature rupture of the membranes with higher doses

Pregnant women with IMIDs who discontinue biologics are more likely to have:¹⁴

- Active disease
- Gestational diabetes
- Disease flares
- Higher rates of glucocorticoid use during pregnancy

in comparison to pregnant women with IMIDs who don't discontinue biologics

It is important that female patients planning a family are made fully aware of the importance of controlling severe or unstable PSO to maintain maternal health²

If your patient with moderate-to-severe PSO requires biologic treatment to control disease activity, consider whether they will still require this treatment during pregnancy

Some treatments for moderate-to-severe PSO are incompatible with pregnancy^{2,5}

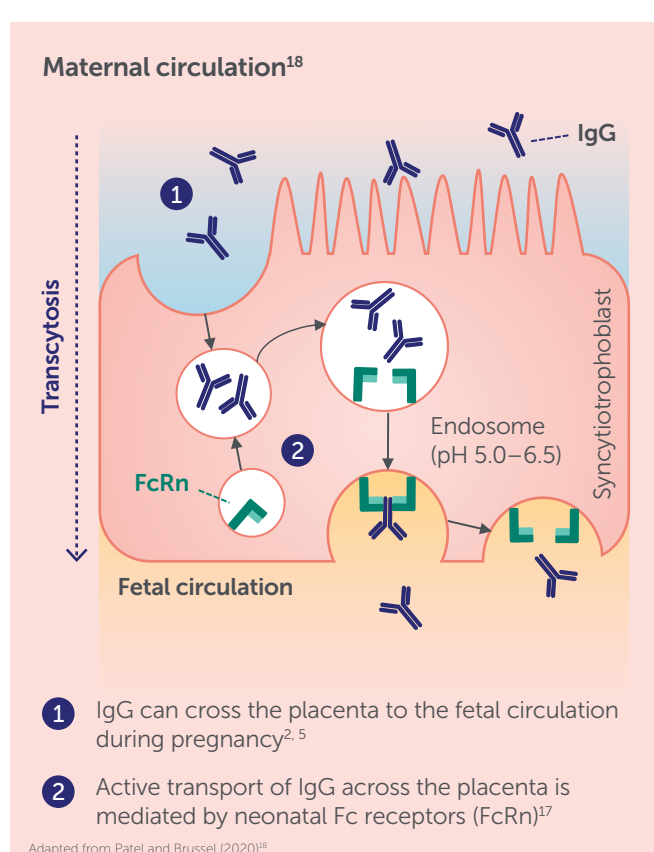
~50% of pregnancies are unplanned⁴

Implications of treatment choice should be discussed with all women of childbearing age with PSO, even if they are not actively planning to start a family⁴

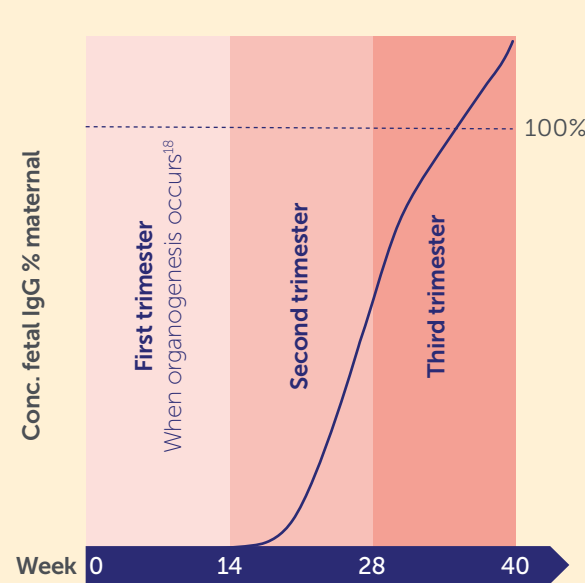
Shared decision-making between dermatologists and patients has been shown to contribute to better treatment choices, improved treatment satisfaction and adherence¹⁶

If treatment with biologics is required, consider which treatments are compatible

Some biologics are monoclonal IgG1 antibodies and can therefore be actively transported across the placenta¹⁷



The expression of FcRn and therefore IgG placental transfer is dependent on gestational age^{19,20}



Impact of biologic exposure throughout pregnancy on neonates

- Some biologics have been detected in intrauterine exposed newborns^{21,22}
- Most of the biologicals have a prolonged half-life in newborn's blood, being detectable in infants up to 12 months after birth (usually 6-9 months)^{21,22}
- Recent meta-analyses and studies on large cohorts of patients have shown an increase between 10% and 50% of severe neonatal infections following *in utero* exposure to anti-TNFs²³⁻²⁵
- Guidelines therefore recommend against the use of live vaccinations in infants up to six months old whose mothers received biologic therapy beyond 16 weeks gestation^{e,2,5}

Pregnancy can have an unpredictable effect on PSO

Some women will require systemic treatment during pregnancy to ensure optimal outcomes for mother and baby^{2,4-6}

Initiate timely conversations

It is important that dermatologists discuss the risks and benefits of treatment during pregnancy with all women of childbearing age^{4,16}

Assess compatibility of treatments

Consider the benefits of a treatment option that is compatible with pregnancy for all women of childbearing age to allow continuity of treatment before, during and after pregnancy, if clinically required^{e,2,5,16,17,19}

^aResults from a survey across Europe in women aged 18-45 years with moderate-to-severe PSO, PsA, or PSO + PsA (N=573). Participants were pregnant or had given birth in the last five years. ^bResults from a survey in the United States (US) (N=141). ^cData from interviews with dermatologists from Germany, United Kingdom and the US (N=167). ^dResults from a survey of EU5 dermatologists (N=135). ^eUnless the benefit of the vaccination clearly outweighs the theoretical risk of administration.

1. Korman N. Br J Dermatol. 2019;182:840-848. 2. Smith C et al. Br J Dermatol. 2020;183:628-637. 3. De Simone C et al. G Ital Dermatol Venereol. 2020;155:434-440. 4. Gottlieb A et al. Int J Womens Dermatol. 2019;5:141-150. 5. Nast A et al. J Eur Acad Dermatol Venereol. 2021;35:281-317. 6. McBride S et al. Int J Womens Dermatol. 2021;7:697-707. 7. Broms G et al. Acta Derm Venereol. 2018;98:728-734. 8. Bentley J et al. Acta Obstet Gynecol Scand. 2018;97:988-997. 9. Cidi N et al. BMJ Paediatr Open. 2020;4:e000740. 10. Jain S et al. Ann Pediatr Res. 2021;4:1071. 11. Muhihi A et al. BMC Pregnancy Childbirth. 2016;16:110. 12. Ludvigsson J et al. PLoS Med. 2018;15:e1002717. 13. Murray S et al. BMJ Open. 2021;11:e043960. 14. Allen K et al. Arch Obstet Gynaecol. 2022;306:1929-1937. 15. Andreoli L et al. Autoimmun Rev. 2023;22(3):103259. 16. van der Kraaij GE et al. J Eur Acad Dermatol Venereol. 2020;34:2574-2583. 17. Giles I et al. Nat Rev Rheumatol. 2019;15:391-402. 18. Patel D & Brussel J. J Allergy Clin Immunol. 2020;146:467-478. 19. Lozano N et al. Ann J Reprod Immunol. 2018;80:e12972. 20. Pfaller B et al. Allergy. 2020;75:171-179. 21. Weiss B et al. Front Pediatr. 2022;10:955034. 22. Luo Y et al. Pediatr Allergy Immunol. 2023;34(2):e13911. 23. Borenbrug L et al. J Autoimmun. 2021;122:102676. 24. Broms G et al. Aliment Pharmacol Ther. 2020;52(5):845-854. 25. Demonceau A et al. BioDrugs. 2023;37(1):73-87.

Conc: concentration; FcRn: neonatal Fc receptors; IgG: immunoglobulin G; IMID: immune-mediated inflammatory diseases; PsA: psoriatic arthritis; PSO: psoriasis; TNF: tumour necrosis factor; US: United States.