

A Case Report of a Pregnant Woman with Familial Chylomicronemia Syndrome Treated With Plozasiran, a Small Interfering RNA Against ApoC3

Ann Mertens, Bart Van der Schueren, Roman Vangoitsenhoven, Lalitha Aiyer, Jennifer Hellowell, Ted Okerson, James Hamilton



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Disclosure Slide

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| <input checked="" type="checkbox"/> | No, nothing to disclose |
| <input type="checkbox"/> | Yes, please specify: |

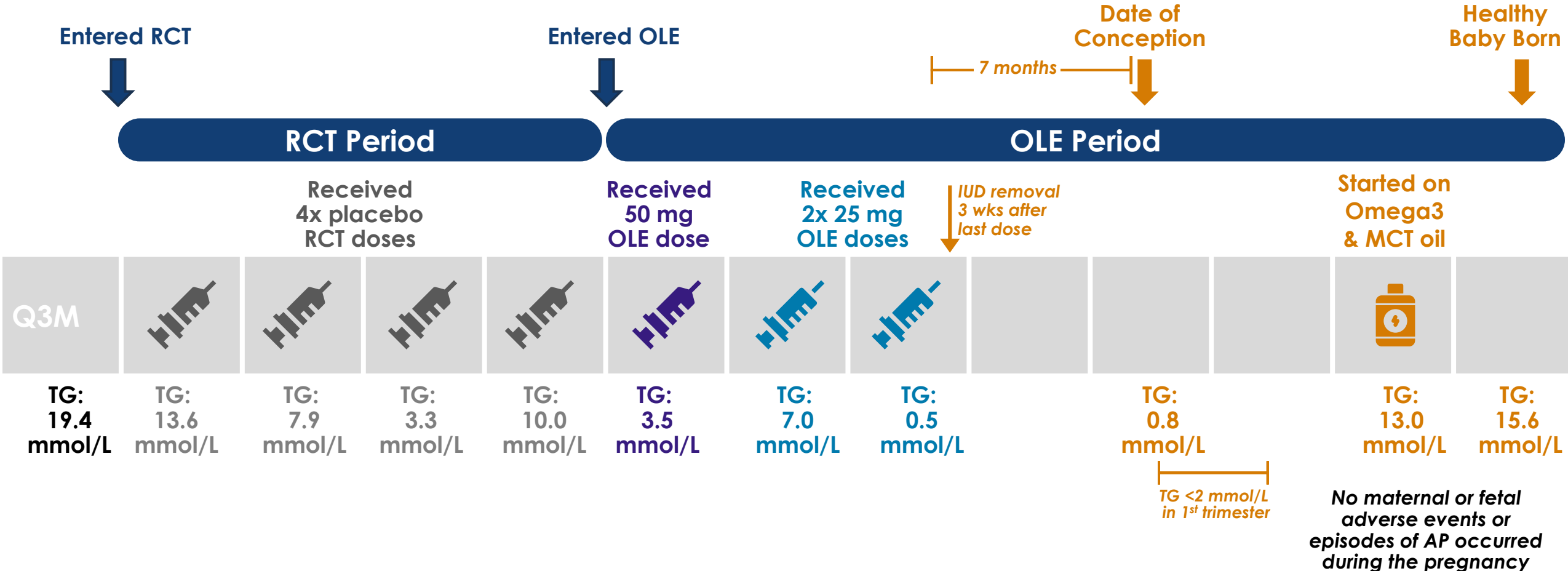
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- Familial chylomicronemia syndrome (FCS) is characterized by markedly elevated fasting triglyceride (TG) levels (>10 mmol/L) and is associated with a high risk of acute pancreatitis (AP)¹
- More pronounced increases in TG levels have been reported in women with FCS during pregnancy, increasing the risk of AP¹
- Plozasiran (REDEMPLO), a GalNAc conjugated small interfering RNA targeting apolipoprotein CIII (ApoCIII) dosed every 3 months, is FDA approved as an adjunct to diet to reduce triglycerides in adults with FCS and has received a positive CHMP opinion in the EU
 - Currently in clinical development for the treatment of severe hypertriglyceridemia
- This is the second case report of a pregnancy associated with the PALISADE study, the first resulted in delivery of a healthy baby²
- Data on exposure are insufficient to inform the safety and efficacy during pregnancy

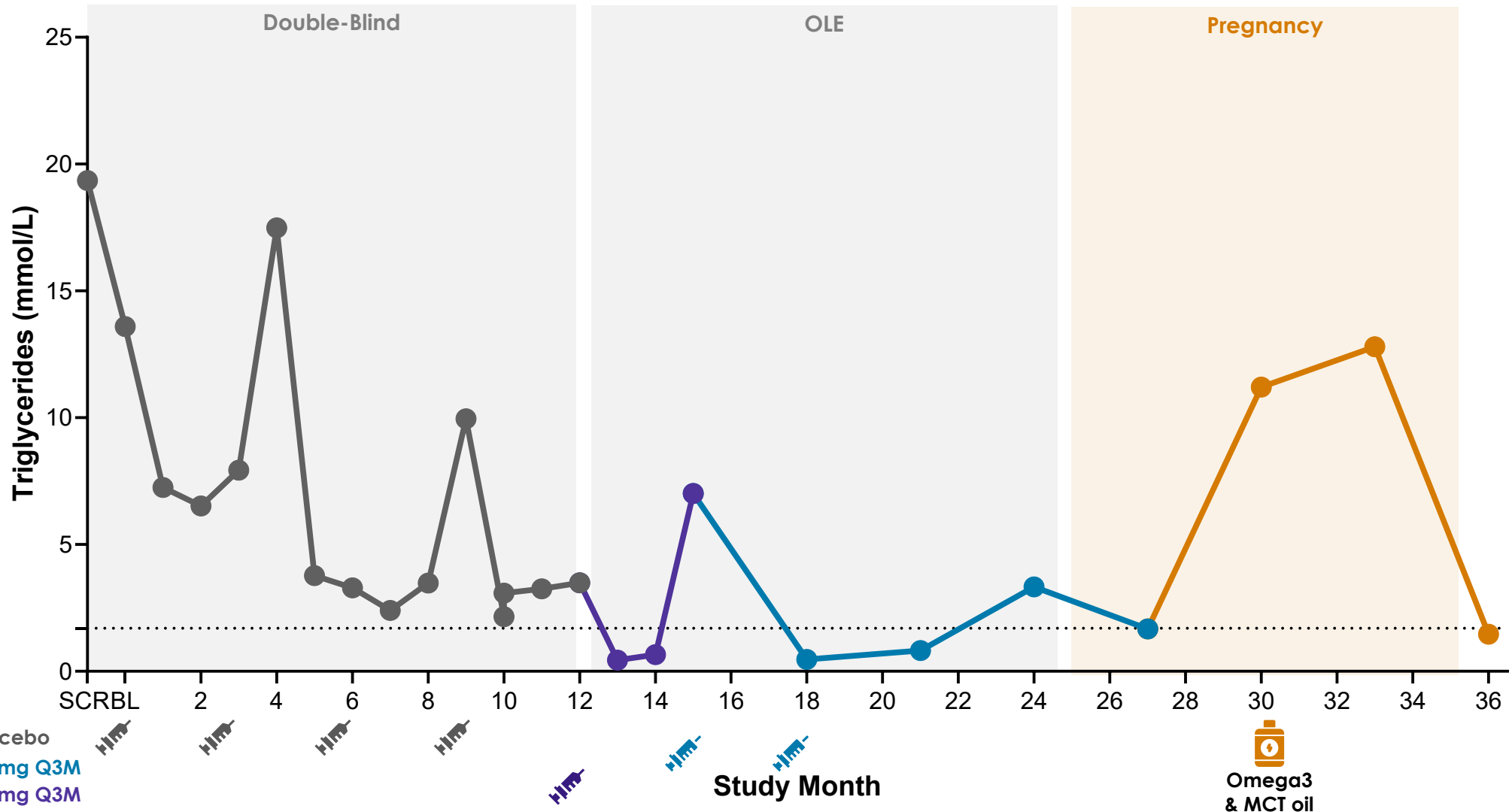
Case Description: 28-year-old Woman with Genetically Confirmed FCS

History of 1 prior AP event prior to start of study



AP, acute pancreatitis; FCS, familial chylomicronemia syndrome; MCT, medium-chain triglyceride; OLE, open-label extension; Q3M, every 3 months; RCT, randomized control trial; TG, triglycerides.

Triglyceride Levels Over Course of PALISADE Study and Pregnancy



BL, baseline; OLE, open-label extension; MCT, medium-chain triglyceride; Q3M, every 3 months.

Safety Data Measures

| | Study Baseline | Month 12 | OLE Dose 1 | OLE Dose 2 | OLE Dose 3 | Pre-pregnancy | Post-pregnancy |
|-------------------------|----------------|----------|------------|------------|------------|---------------|----------------|
| Glucose (mmol/L) | 4.3 | 4.7 | — | 4.8 | — | 4.5 | 3.7 |
| HbA1c (%) | 4.9 | 5.3 | 5.3 | 5.5 | 5.1 | 5.2 | 4.9 |
| HOMA-IR | 0.71 | 0.68 | — | 1.8 | — | 0.5 | 0.42 |
| ALT (U/L) | 13 | 15 | 18 | 13 | 15 | 14 | 7 |
| AST (U/L) | 16 | 18 | 17 | 14 | 17 | 18 | 14 |
| Lipase (U/L) | 21 | 26 | — | 31 | 17 | 21 | 33 |

No maternal or fetal adverse events or episodes of AP occurred during the pregnancy

The baby was born full term with a normal APGAR with a birth weight reported as 3.2 kg (7.1 lbs) and length of 50 cm (19.7 in) which are within the normal ranges.

Clinical Challenge: Pregnancies in patients with FCS are associated with a high and often recurrent risk of AP, particularly in later trimesters, with the potential for serious maternal and fetal complications; accordingly, TG levels should be monitored as a dynamic risk marker requiring close and sustained control.¹⁻³

- This case suggests that preconception exposure to plozasiran may be associated with sustained lowering of fasting TG levels throughout the term of a pregnancy, consistent with the prolonged pharmacodynamic effects of ApoCIII inhibition reported in PALISADE, yet without any evident adverse maternal or fetal complications.
- This is the second case report of a pregnancy associated with the PALISADE study, the first also resulted in delivery of a healthy baby, suggesting that plozasiran administration a few weeks before pregnancy in women with FCS may lower TG levels.⁴
- Additional data are needed to define the safety and efficacy of ApoCIII-targeted therapies during pregnancy.