# Unusual Case of Streptococcus mitis and Streptococcus milleri Group Chorioamnionitis and Maternal Septicemia

## Christina Yang<sup>1</sup>, Tamara Harris<sup>1</sup>

1- Royal North Shore Hospital christina.yang2@health.nsw.gov.au



#### Introduction

- Streptococcus mitis is a common constituent of oral flora, and Streptococcus milleri group is found in oropharyngeal, gastrointestinal, and genitourinary flora.
- Cases of S. mitis chorioamnionitis have been reported in association with periodontal disease and oral sex.1-3

### Aim

The purpose is to report a rare case of S. milleri group and S. mitis chorioamnionitis and maternal septicemia.

Case			
	Presentation		Progress
•	A 35-year-old nulliparous woman underwent induction at 40+2 weeks gestation for gestational hypertension.  She developed a fever intrapartum and was commenced on intravenous antibiotics for sepsis.  Due to fetal tachycardia and recurrent variable decelerations in combination with maternal sepsis, she underwent an emergency Caesarean section 12 hours post rupture of membranes and delivered a live female infant with APGAR scores of 3 and 9 at 1 and 5 minutes.  Blood cultures taken at time of initial fever and placental swabs were both positive for S. mitis and S. milleri group.	•	Urine, high vaginal, fecal, breast milk cultures were negative for any growth. She underwent various imaging for intermittent episodes of tachypnea, right upper quadrant and suprapubic pain, and lumbar back pain, including CT abdomen/pelvis, echocardiogram, MRI lumbar spine, and pelvic ultrasound. None of these revealed any significant results to indicate source of infection.  The patient denied a history of recent dental issues and any sexual activity leading up to delivery.  Her stay was prolonged due to recrudescent fevers despite being on appropriate antibiotic therapy. She was discharged 11 days postpartum and completed a 14-day course of antibiotics.  She was well at follow-up appointments 3 and 6 weeks postpartum and was recommended to seek a dental review for exclude gingivitis.

#### Discussion

- Unknown source of maternal septicemia and chorioamnionitis made this a perplexing case.
- This patient had no risk factors for cases of similar presentation, including prolonged rupture of membranes, cunnilingus from partner with gingivitis, nor a recent history of dental procedures.

## References

- Hosseini BS, Hunt J. Streptococcus mitis Chorioamnionitis after Dental Scaling and Oral Sex. Case Rep Obstet Gynecol. 2020 Nov 2;2020:9251731. Chaemsaithong, P., Lertrut, W., Kamlungkuea, T. et al. Maternal septicemia caused by Streptococcus mitis: a possible link between intra-amniotic infection and periodontitis. Case report and literature review. *BMC Infect Dis.* 2022; 22, 562.
- Gherman RB, Browning J, Tramont J, Eggleston MK. Streptococcus viridans intra-amniotic infection associated with antecedent cunnilingus. *Aust N Z J Obstet Gynaecol*. 1999 May;39(2):257-9.