

Objectives

- Describe the disorder referred to as fetal and neonatal alloimmune thrombocytopenia (FNAIT) or neonatal alloimmune thrombocytopenia (NAIT) including its estimated incidence, potential intrauterine and postnatal presentation, and specific need for early antenatal recognition and treatment
- Outline the pathophysiology and sequence of occurrences that result in the clinical picture of the disorder and explain the laboratory tests required for diagnosis
- Summarize the postnatal management of suspected NAIT and the antenatal maternal management required in subsequent pregnancies following the birth of an infant affected by NAIT
- Discuss the key findings of the international, retrospective, cohort study presented that involved 389 cases of FNAIT and list the implications for future research and changes in clinical practice

Fetal and Neonatal Autoimmune Thrombocytopenia – Important Aspects

Content Outline

1. Neonatal Alloimmune Thrombocytopenia (NAIT) as a Disease of Platelet Number
 - 1.1 Definition of FNAIT/NAIT
 - 1.2 Pathophysiology
 - 1.3 Clinical presentation
 - 1.4 Laboratory investigation in suspected NAIT cases
 - 1.5 Postnatal management of neonates affected by NAIT
 - 1.6 Maternal antenatal management in subsequent pregnancies
2. Postnatal Treatment for FNAIT/NAIT: Findings of a Multicenter, Retrospective, Cohort Study
 - 2.1 Summary of background, methods, findings, and suggested interpretation
 - 2.2 Comparison of postnatal treatment strategies by country
 - 2.3 Limitations of study
 - 2.4 Further information and actions suggested

Reading Material Resources

Module WB2567: Fetal and Neonatal Autoimmune

Thrombocytopenia – Important Aspects is based on the resources listed below. A copy of each resource is included with the module.

Chapter 129 Diseases of Platelet Number: Immune Thrombocytopenia, Neonatal Alloimmune Thrombocytopenia and Posttransfusion Purpura, Zeller MP et al., in Hoffman et al.'s *Hematology Basic Principles and Practice, Eighth Edition* (2023), Elsevier, 2027-2030 (pages applicable to posttest items)

Postnatal treatment for children with fetal and neonatal alloimmune thrombocytopenia: a multicentre, retrospective, cohort study, de Vos TW et al, *Lancet Haematology*, (9) 2022, e844-e853