

# Abstract – Posterpræsentation

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Congenital Pulmonary Malformation, pre- and postnatal diagnosis and management.

**BACKGROUND** Congenital pulmonary malformations (CPMs) are a group of rare developmental abnormalities in the lungs and respiratory tree. The diagnosis of CPM is now often made prenatally, due to the growing use and sensitivity of prenatal ultrasonography. In most cases, the prognosis of prenatally detected CPM is favorable, but in rare cases severe prenatal complications, and intrauterine death can occur. Some neonates with CPM will have respiratory symptoms at birth and need surgical removal of the lesion. However, most neonates with CPM have no symptoms and will remain asymptomatic beyond the neonatal period.

Surgical removal of the lung lesion is the standard of care for symptomatic children with CPM. However, the management of asymptomatic children remains controversial.

**AIMS** We aim to investigate the incidence of CPM in Denmark and evaluate associations between prenatal findings and pre- and postnatal outcomes. Further, to evaluate clinical outcomes after surgical excision of symptomatic CPM, and the clinical outcomes of asymptomatic CPM managed conservatively versus surgically.

**METHODS** National prospective cohort studies including pre- and postnatally diagnosed CPM from 2000 to 2022 and follow-up data from the highly specialized Danish centers managing CPM.

**PERSPECTIVES** The project will help identify potential prenatal predictors of respiratory impact among neonates with CPM. Furthermore, the study will provide national results regarding the management of children with CPM, with follow-up of several years, which may lead to an optimization of the current management of children born with CPM in Denmark.