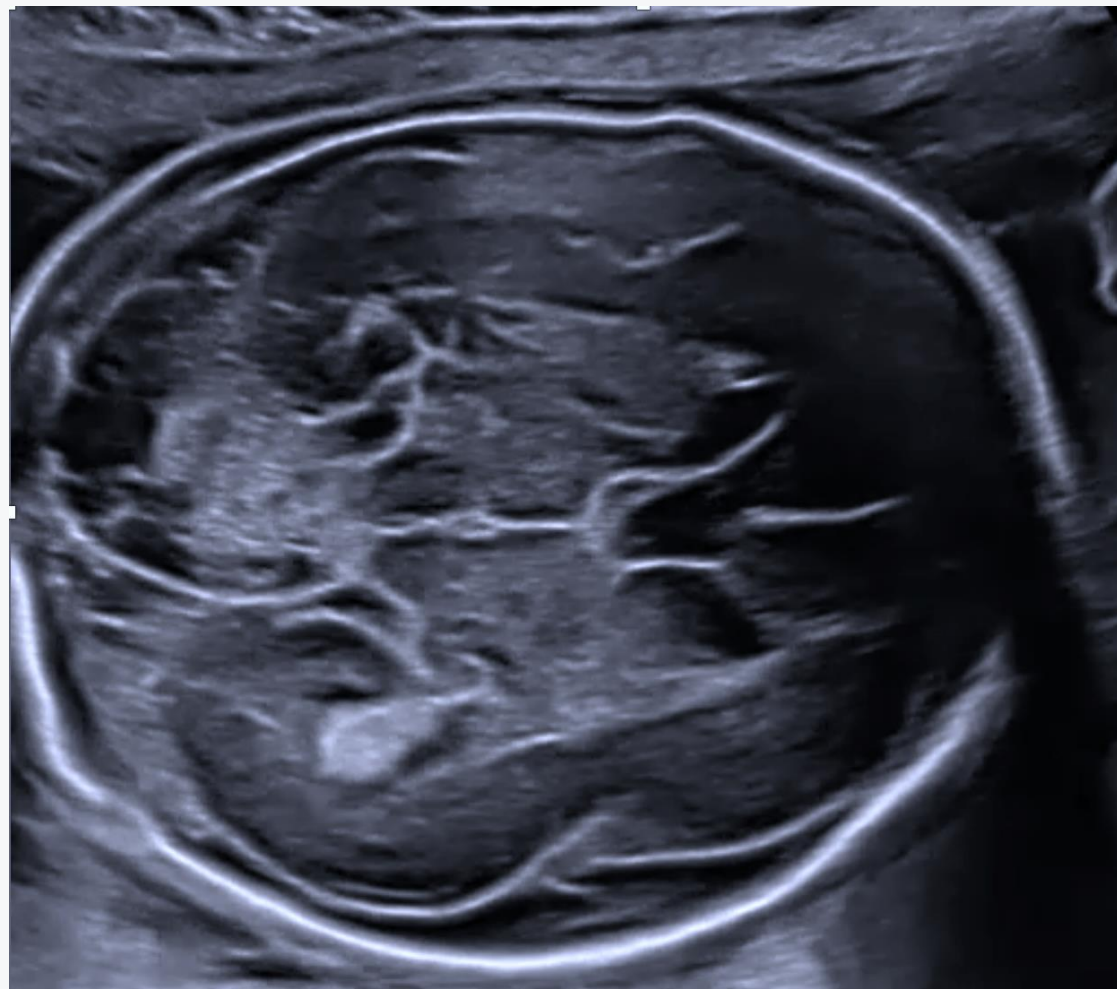


14804ed Prenatal diagnosis and outcomes of echogenic cavum septi pellucidi: tertiary fetal neurosonography unit experience

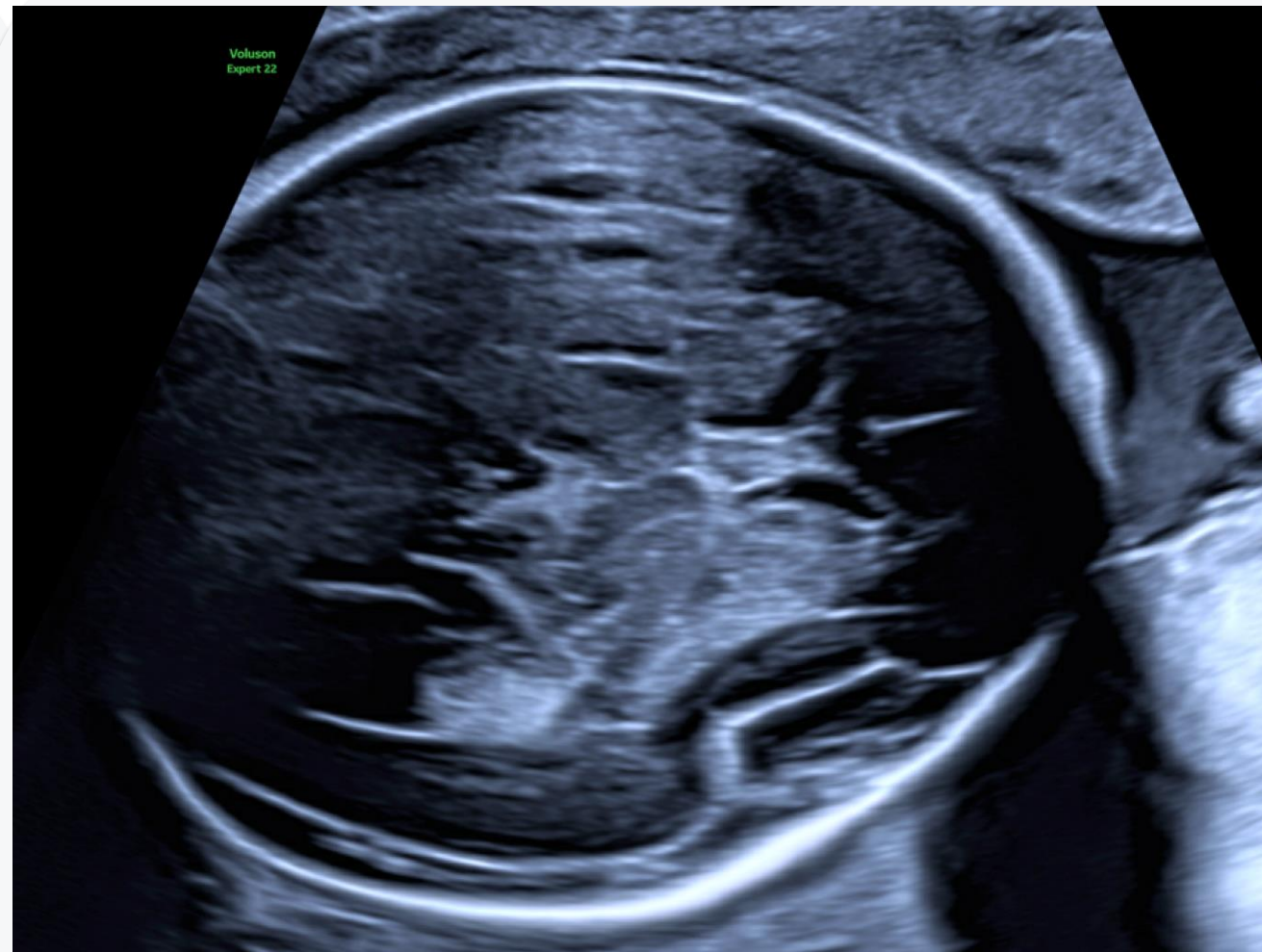
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WHAT IS AN ECHOGENIC CSP?

The normal CSP is a fluid-filled midline cavity. In an echogenic CSP, the fluid space is obliterated and replaced by solid-appearing echoes.



Normal CSP



Echogenic CSP

STUDY DESIGN AND POPULATION

Retrospective tertiary neurosonography cohort
NSG database • Aug 2022-Apr 2026

Echogenic CSP identified n = 43

Confirmed on expert NSG n = 43

OBJECTIVE

To characterize associated findings, evolution, MRI contribution and outcome.

1 HOW OFTEN IS IT ISOLATED?

47%

ISOLATED
n = 20

53%

NON-ISOLATED
n = 23

2 WHAT HAPPENS TO ISOLATED CASES?

100%

remained isolated

100%

normal
neurodevelopment

0

genetic abnormalities

3 WHAT IS THE EVOLUTION?

18%

transient finding

Mostly disappeared within the first 4 weeks.

13%

new findings

3/23 non-isolated cases: hemorrhage or cortical abnormalities.

4 NON-ISOLATED CASES



Corpus Callosum
anomalies (6)

6



Ventriculomegaly (6)

6



Head Circumference
<2SD (2)

2



Multiple findings (9)

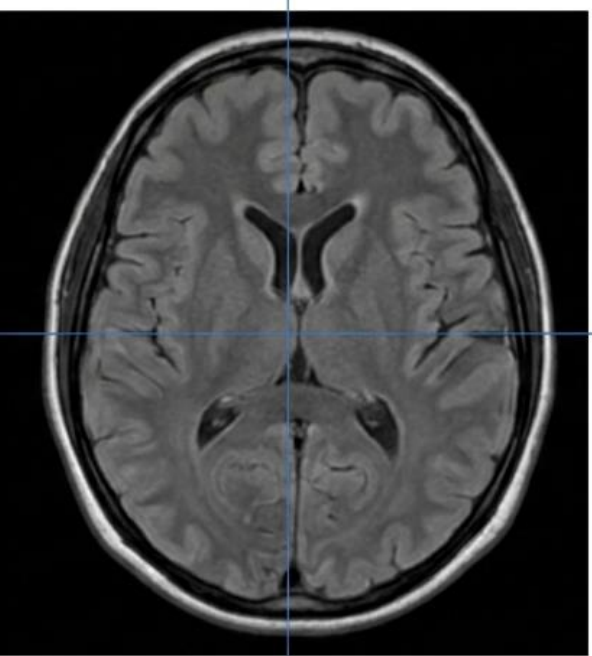
9

Expert NSG added diagnoses

40%

Complete diagnosis by referring
clinician: n = 14
Prognosis was determined by
the associated CNS anomaly.

5 WHAT DOES MRI ADD?



CONFIRM NORMALITY

Especially when NSG biometry is at the limits of normal.

DETECT SUBTLE FINDINGS (IN NON-ISOLATED)

Occult hemorrhage 5% • cortical anomalies 10%

REFINING COUNSELING

PROPOSED COUNSELLING PATHWAY

ECHOGENIC CSP ON NSG



Detailed expert neurosonography



ISOLATED



NSG follow-up
Confirm persistence / resolution



Persistent & truly isolated
→ reassuring prognosis



ASSOCIATED CNS FINDINGS



MRI + individualized work-up
according to associated anomaly



Counsel prognosis based on
associated CNS findings

MRI refines counseling rather than replacing expert neurosonography.

TAKE-HOME MESSAGES

1

~20% of initially isolated cases resolve, mostly within 4 weeks

2

Persistent, truly isolated echogenic CSP carries an excellent neurodevelopmental prognosis

3

Associated CNS anomalies—not the echogenic CSP itself—drive prognosis