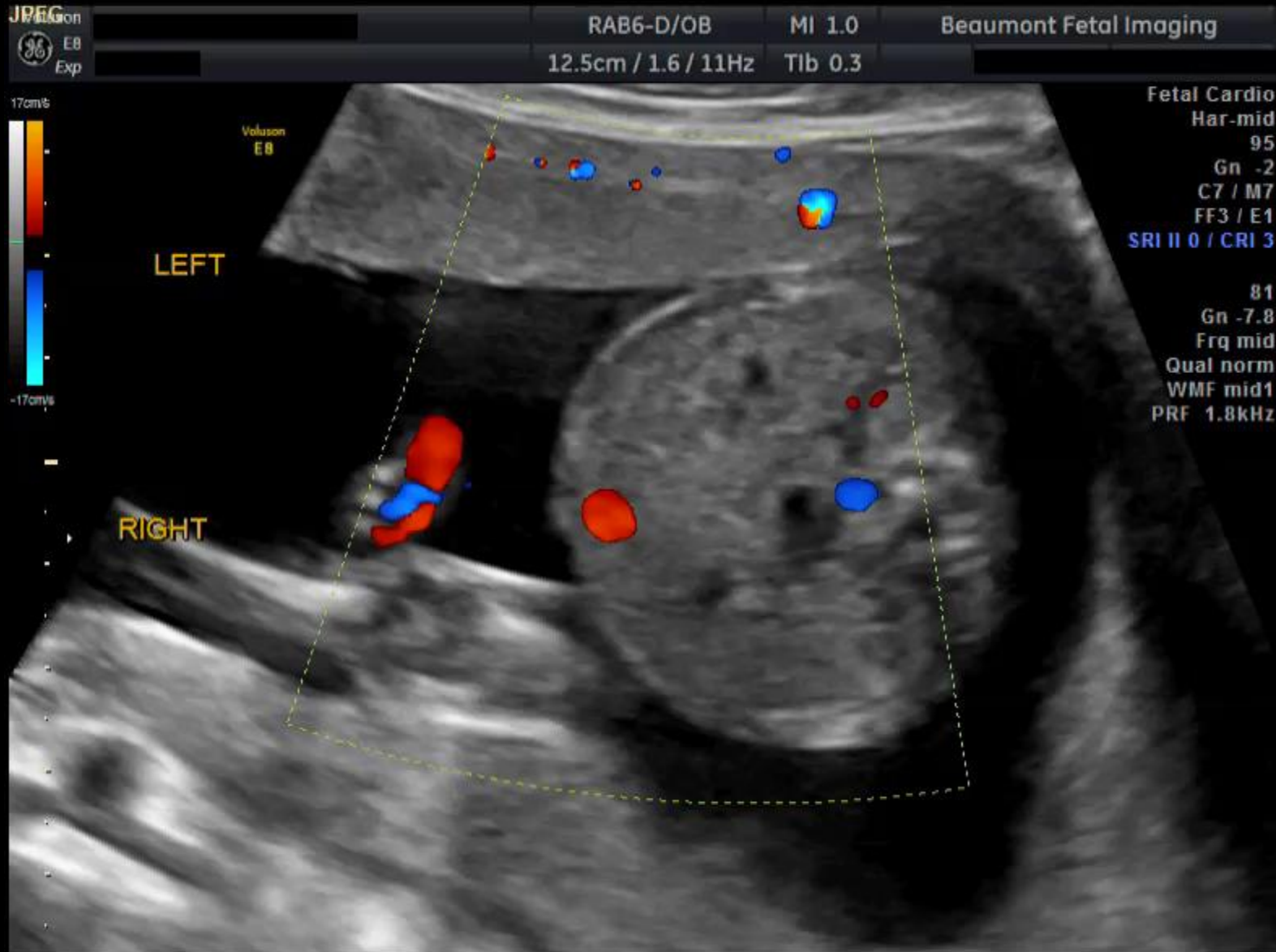


Choledochal Cysts

20 Weeks

20 weeks
gestation:
Choledochal
cyst is seen
as a right
sided cystic
structure
without color
Doppler signal
lying beneath
the portal
sinus.



20 weeks
gestation:
Choledochal
cyst is seen
as a right
sided cystic
structure with
adjacent
gallbladder



20 weeks
gestation: The
umbilical vein
curves right
towards the portal
sinus just above
the cyst. The
stomach can be
seen on the left.



20 weeks
gestation:
Coronal view,
left side up with
fetal stomach
up.
Umbilical vein
can be traced
adjacent to the
right cystic
structure.



22Weeks

22 weeks gestation: The umbilical vein (➡) can be traced and found entering the portal sinus below the cystic structure. The gallbladder (⇨) can be traced to, and connecting to, the cyst.





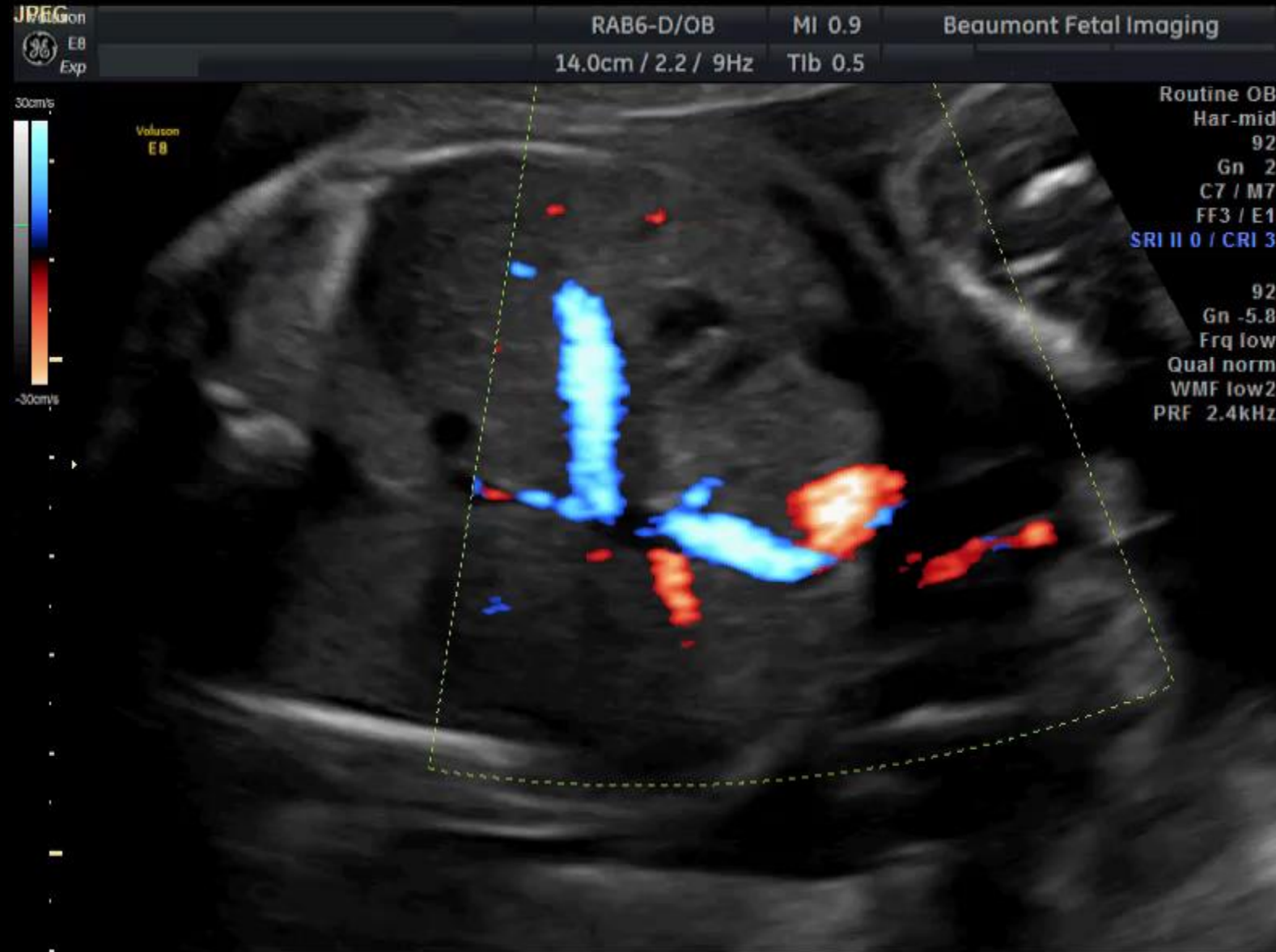
22 weeks
gestation: In this
slightly oblique
view, the red arrow
depicts the
gallbladder as it
courses towards
the cyst and the
white arrow depicts
the umbilical vein.

28 Weeks

28 weeks
gestation: In this
slightly oblique
view, the red arrow
depicts the
gallbladder as it
courses towards
the cyst and the
white arrow depicts
the umbilical vein.



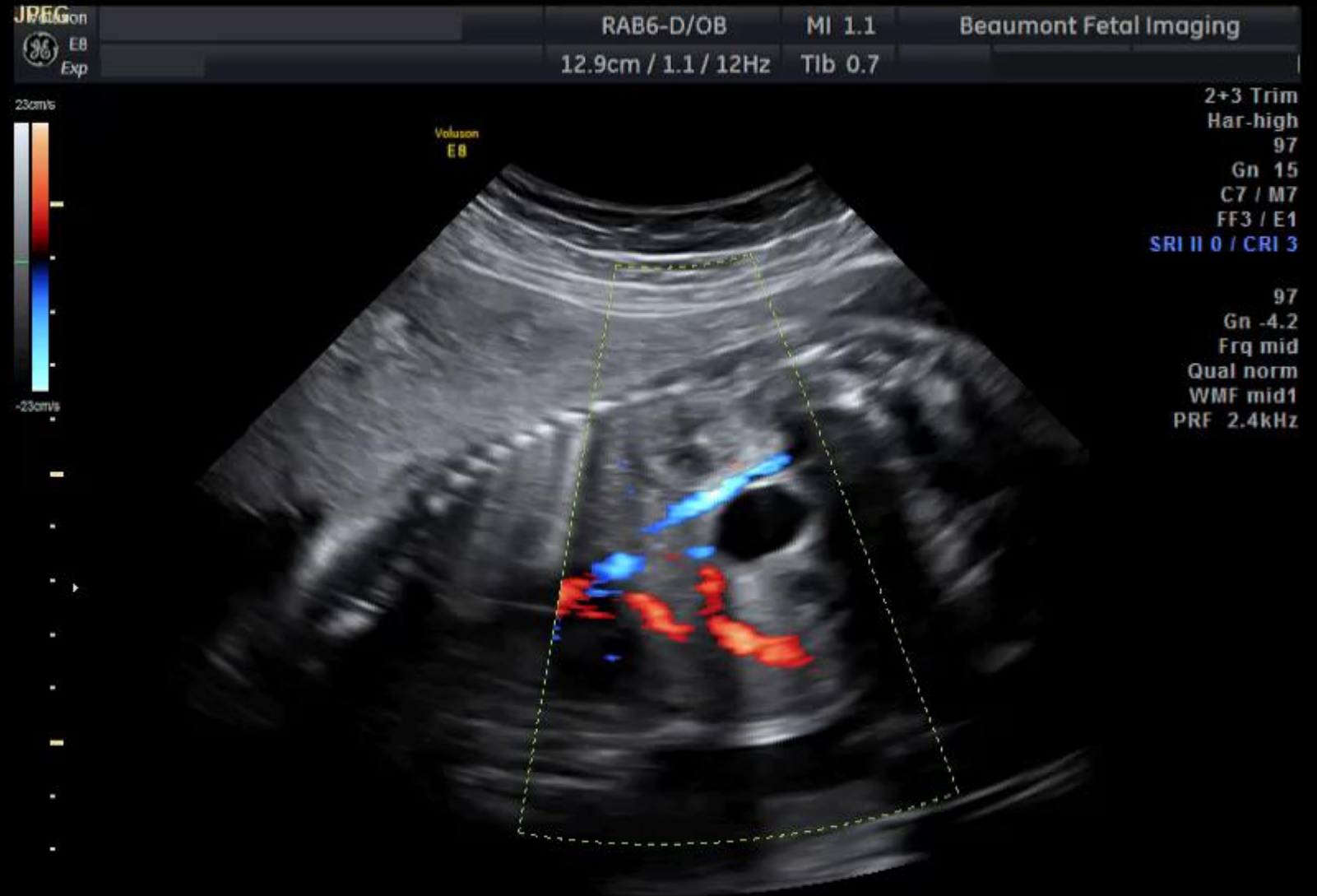
28 weeks gestation: In this slightly oblique view, the gallbladder can be seen coursing alongside the choledochal cyst with vessel connecting it. The umbilical vein and portal sinus are clearly outlined with color Doppler.



28 weeks gestation: In this axial view, the choledochal cyst can be seen just above the portal sinus, delineated by color Doppler.



28 weeks gestation: In this sagittal view, the choledochal cyst can be seen just beneath the umbilical vein and portal sinus. A vessel coming off the choledochal cyst can be seen without color Doppler signal (connecting to the gallbladder).

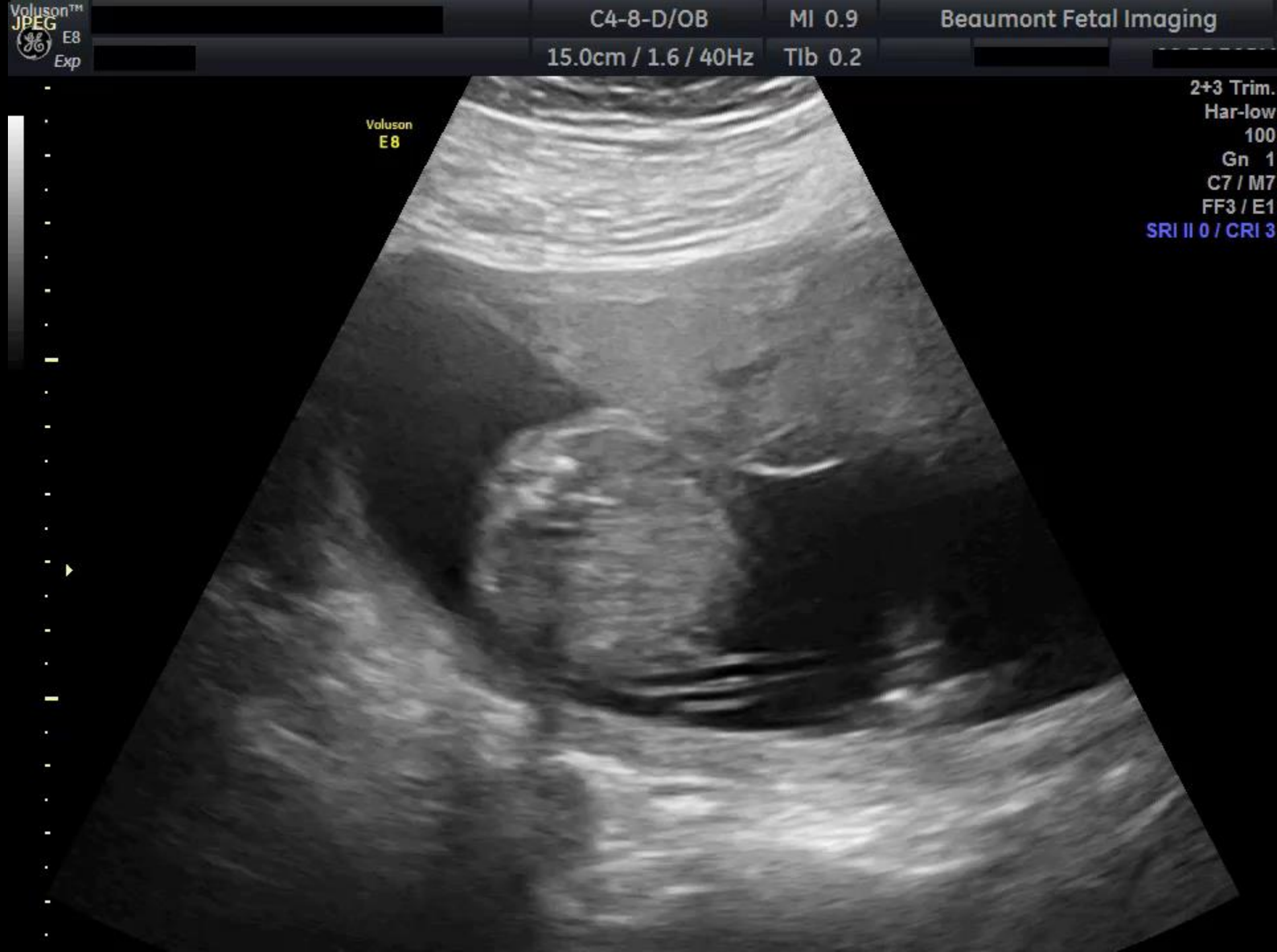




Case 2

- 19 Weeks

19 weeks gestation:
This axial scan shows
the stomach on the left
an another cystic
structure just below the
umbilical vein



21 Weeks

21 weeks gestation: In this axial view a second hypoechoic cyst (choledochal cyst) in the midline with evidence of a connection to a vessel to the right of the umbilical vein



21 weeks gestation: The umbilical vein is seen curving right towards the portal sinus (red color Doppler). The choledochal cyst can be seen just beneath the portal sinus. The stomach is seen on the right



25 Weeks

25 weeks gestation:
This axial view shows
the connection
between the
gallbladder and the
choledochal cyst



25 weeks
gestation:
Choledochal cyst is
seen as a right
sided cystic
structure without
color Doppler
signal lying
beneath the portal
sinus.

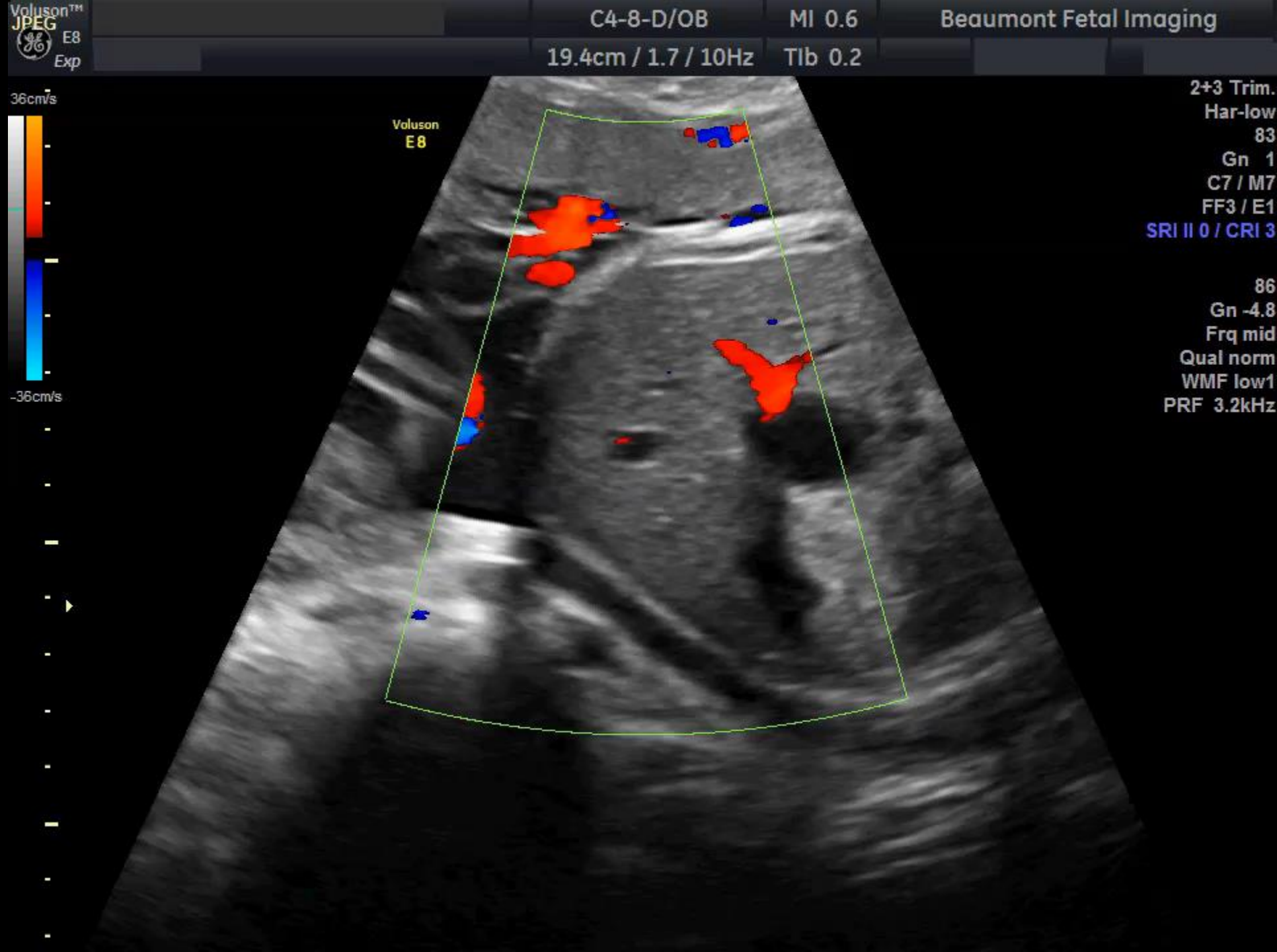


25 weeks gestation:
With sepia contrast,
the midline cystic
structure
(choledochal cyst)
is seen separate from
the curving umbilical
vein and portal
sinus.



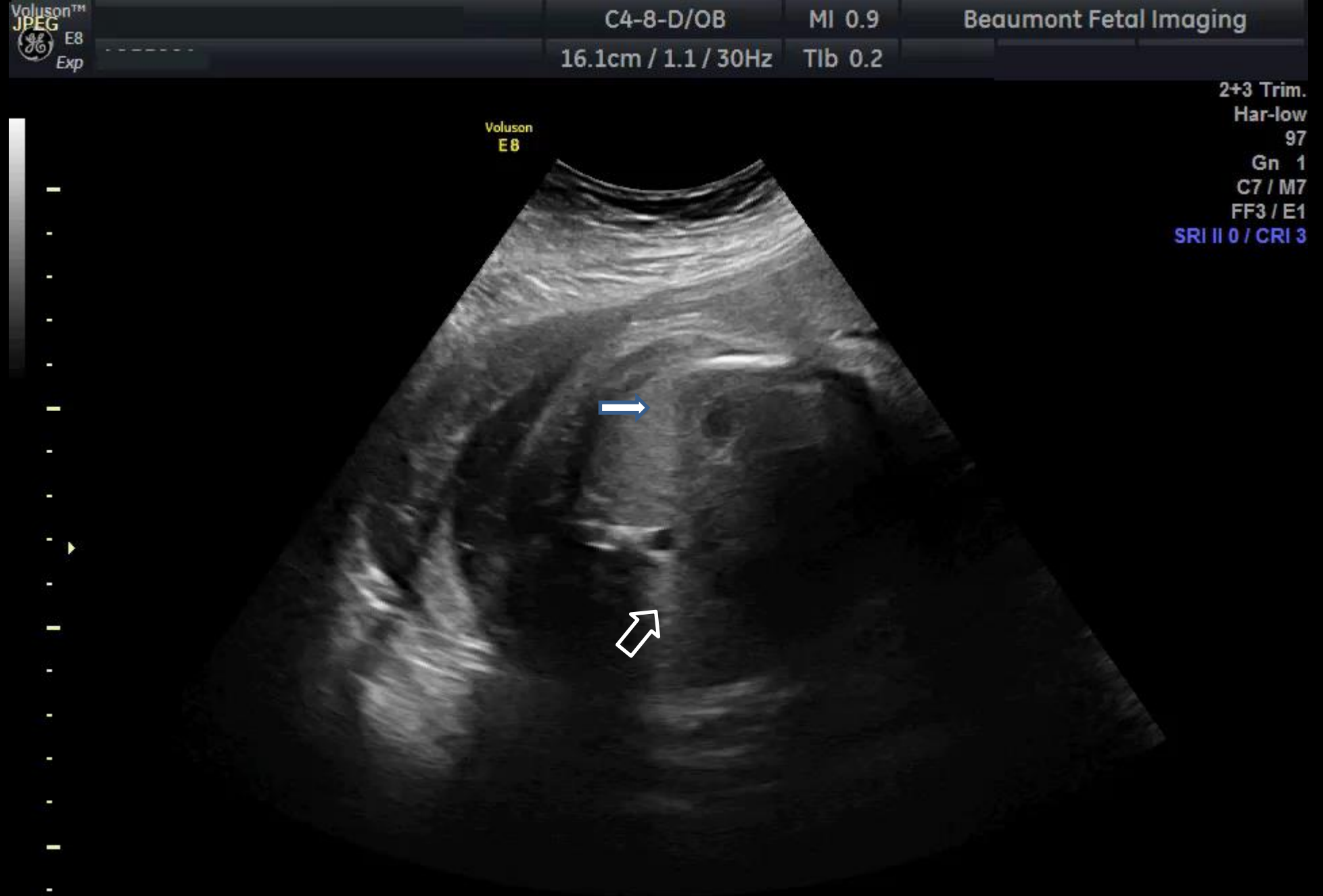
31 weeks

31 weeks
gestation: The cyst
is below the
hepatic veins and
portal sinus. There
is no color Doppler
signal within the
cyst.



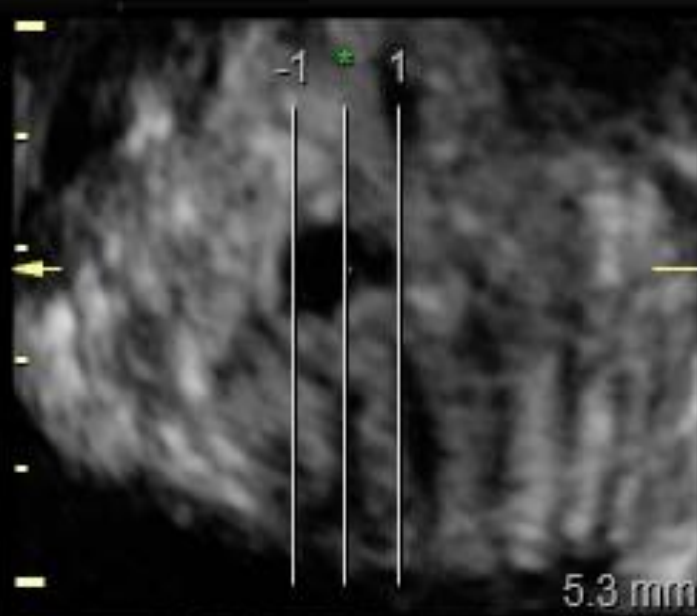
35 Weeks

35 weeks gestation:
Umbilical vein seen
curving right.
Gallbladder can be
seen with a
connection to the
choledochal cyst
().
Stomach () is
seen on the left.



35 weeks gestation: 3D rendered image showing the umbilical vein (→) leading to the portal sinus (★) just below the choledochal cyst (⇨). The cyst is connected to the gallbladder (↪) by a narrow channel.

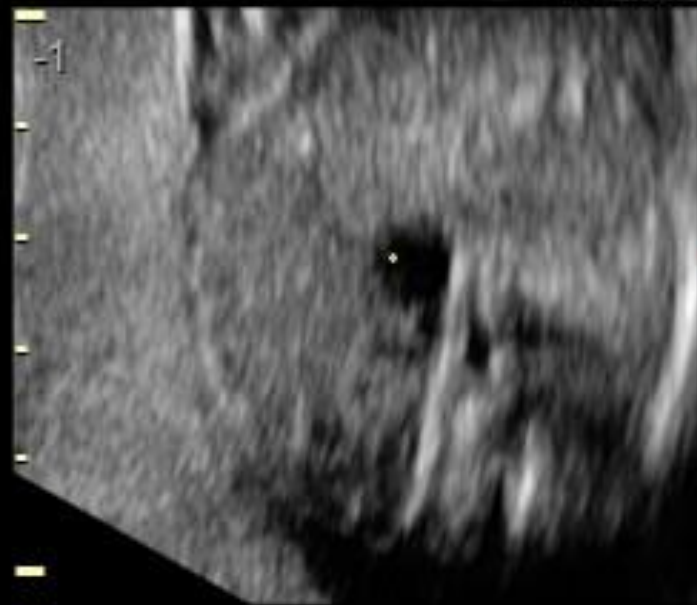




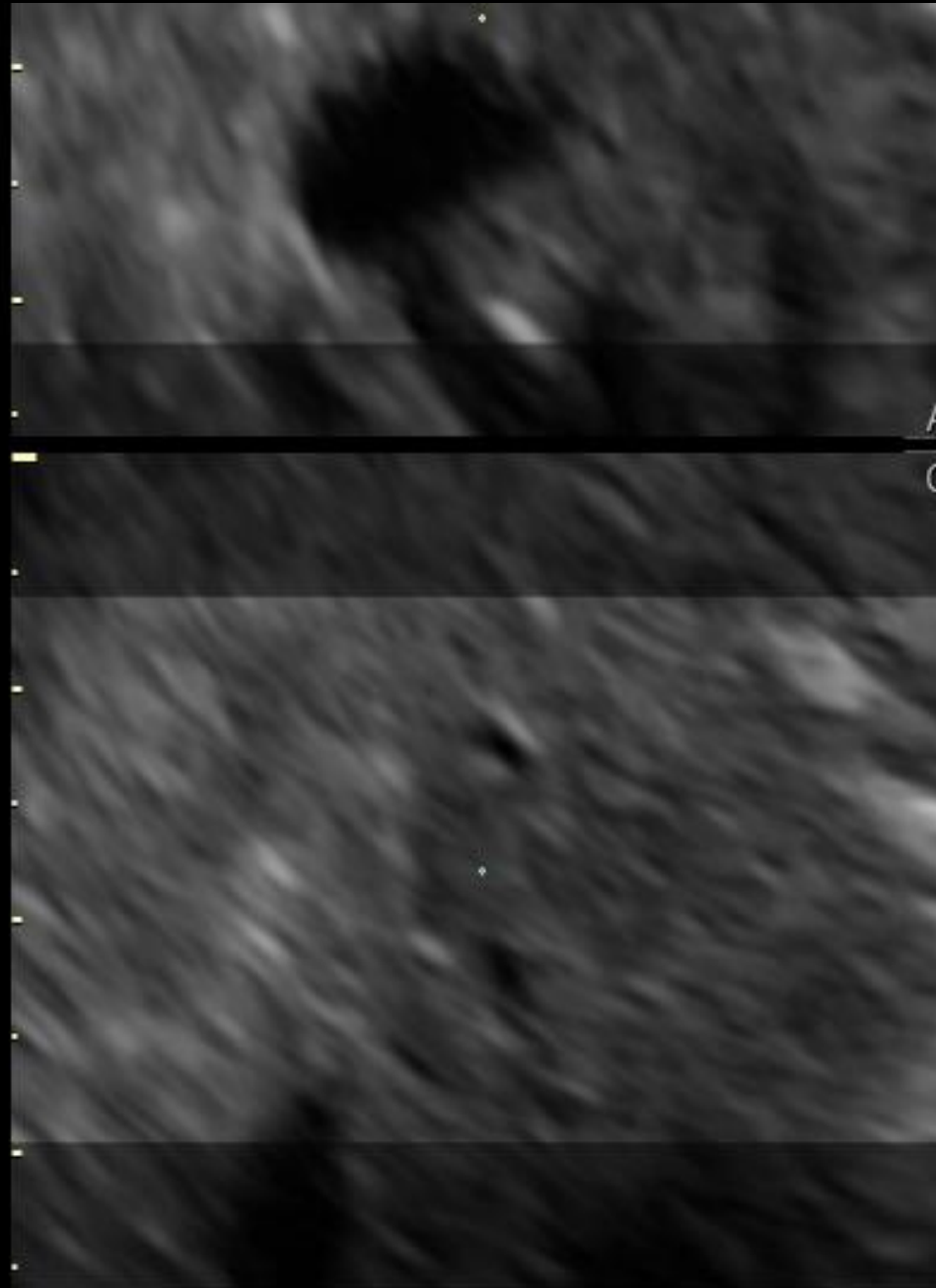
35 weeks gestation: STIC acquisition:
 Gallbladder (→) seen connecting to
 the cyst (⇨). The umbilical vein (↪)
 is seen entering the portal sinus (★)
 just beneath.

--- 3D/4D ---
 DEFAULT
 Qual high2
 B34°/V80°
 CRI 3
 2D: SRI II 1
 3D Static

--- 2D ---
 Fetal Cardio
 Har-mid
 Pwr 95 %
 Gn 1
 C7 / M0
 E1



35 weeks gestation: 3D rendered image showing the umbilical vein (→) running parallel to the cyst (⇔). The gallbladder (↪) is seen connecting to the cyst.



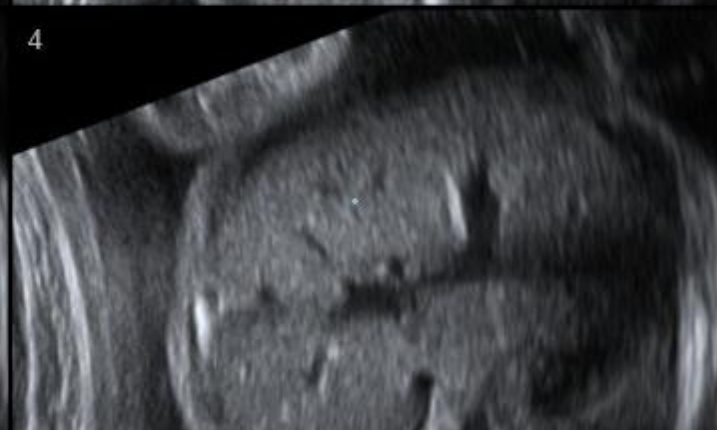
35 weeks gestation:3D rendered image showing the umbilical vein (→) leading to the portal sinus (★) just below the choledochal cyst (⇨). The cyst is connected to the gallbladder (↻) by a narrow channel.





35 week gestation:
Multiplanar view: Solid
white arrow tracing the
course of the gallbladder
adjacent to the cyst.

2D: SRI II 1
3D Static
--- 2D ---
2+3 Trim
Har-high
Pwr 97 %
Gn 10
C7 / M0
E1





Neonatal Ultrasound

Case 2: Neonatal ultrasound. In this sagittal plain, while the gallbladder is seen coursing towards the choledochal cyst, the exact connecting vessel can not be delineated, however the hepatic vessels are seen running alongside the choledochal cyst, without connecting

FR 30Hz
RS

2D
66%
C 62
P Low
Pen

