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Wolfgang Moroder Via Rezia, 64 Ortisei BZ 39046 Italy

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## Assessment of ductus venosus flow

Dear Wolfgang Moroder,

Thank you for submitting your logbook of 3 images. I examined each image for the following criteria: magnification, mid-sagittal view, sample volume between 0.5 and 1 mm, angle of insonation angle less than 30 degrees, low filter: 50-70 Hz, high sweep-speed (3-6 waveforms), and your assessment (see table below).

	Image number		
Criteria	1	2	3
Magnification	1	1	<b>✓</b>
Mid-sagittal view	<b>✓</b>	<b>✓</b>	<b>✓</b>
Sample volume 0.5-1 mm	<b>✓</b>	<b>✓</b>	<b>✓</b>
Insonation angle less than 30°	<b>✓</b>	<b>✓</b>	<b>✓</b>
Low filter: 50-70 Hz	<b>✓</b>	<b>✓</b>	<b>✓</b>
High sweep-speed (3-6 waveforms)	1	1	<b>✓</b>
User's assessment	<b>✓</b>	1	<b>✓</b>

Legend: ✓ = pass X = fail -- = not possible to assess

Your images are satisfactory. Your software license will include the assessment of **ductus venosus flow** in the risk calculation for chromosomal abnormalities and your name will appear on the list of sonographers certified for ductus venosus assessment.

Best wishes,

Olga Torres Khoury