Neck vein ultrasound

Left and right comparison | 10 November 2026

The estimated blood flow is higher on the right. This difference alone does not mean the left vein is blocked.

Measure	Left - image 1	Right - image 2
Vein width (CSD)	5.88 mm	11.10 mm
Estimated area (CSA)	0.27 cm^2	0.97 cm^2
Peak flow speed (PSV)	12.43 cm/s	32.78 cm/s
EDV (machine value)	1.54 cm/s	10.29 cm/s
Average peak speed (TAP)	5.83 cm/s	19.05 cm/s
Average flow speed (TAM)	4.46 cm/s	8.30 cm/s
Estimated blood flow (VF)	**72.6 mL/min**	**481.7 mL/min**
Pulse index (PI)	1.87	1.18
Resistance index (RI)	0.88	0.69
How fast speed rises (ACC)	152.56 cm/s^2	146.76 cm/s^2
Time for speed to rise (AcT)	79 ms	224 ms

Values are copied from the images. Left and right follow the labels you provided.

What the numbers show

Blood flow was measured on both sides. The right vein was about **1.9 times wider**, with about **1.9 times the average speed** and **6.6 times the estimated blood flow**.

Healthy people can have different vein sizes. A larger right vein can be normal. [1]

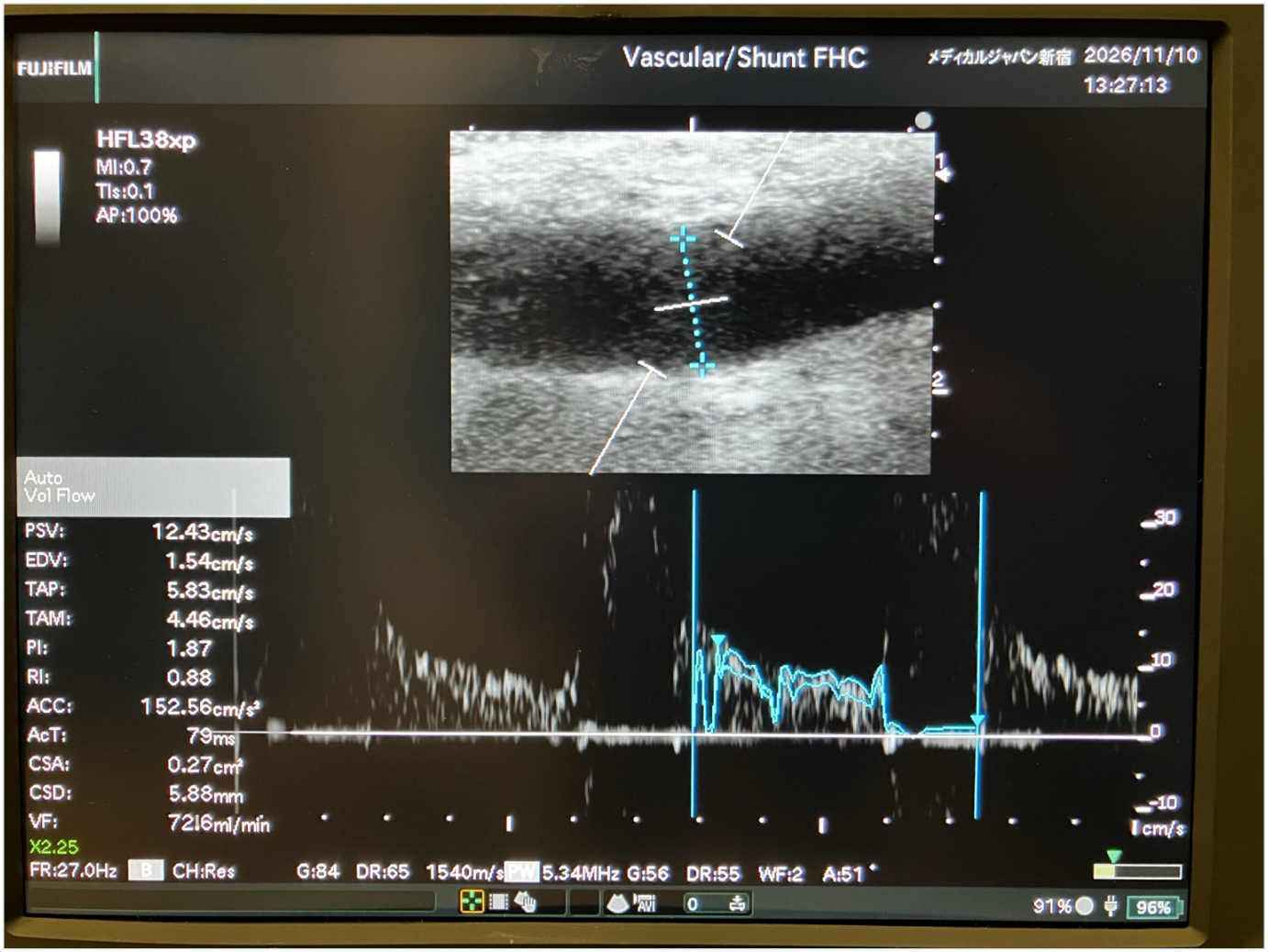
What to keep in mind

The flow values are estimates. Breathing, body position, and the scan method can change the result. [2, 3] The area values match a calculation that treats the vein as round. A flat vein can give a different area and flow estimate. [2]

PI and RI alone do not show whether a neck vein is blocked. These two saved images cannot confirm or rule out a blood clot, a narrow vein, or abnormal backward flow.

Left neck vein

Image 1 | Scan time: 13:27:13



Vein width	Average speed	Estimated flow
5.88 mm	**4.46 cm/s**	**72.6 mL/min**

What this image shows

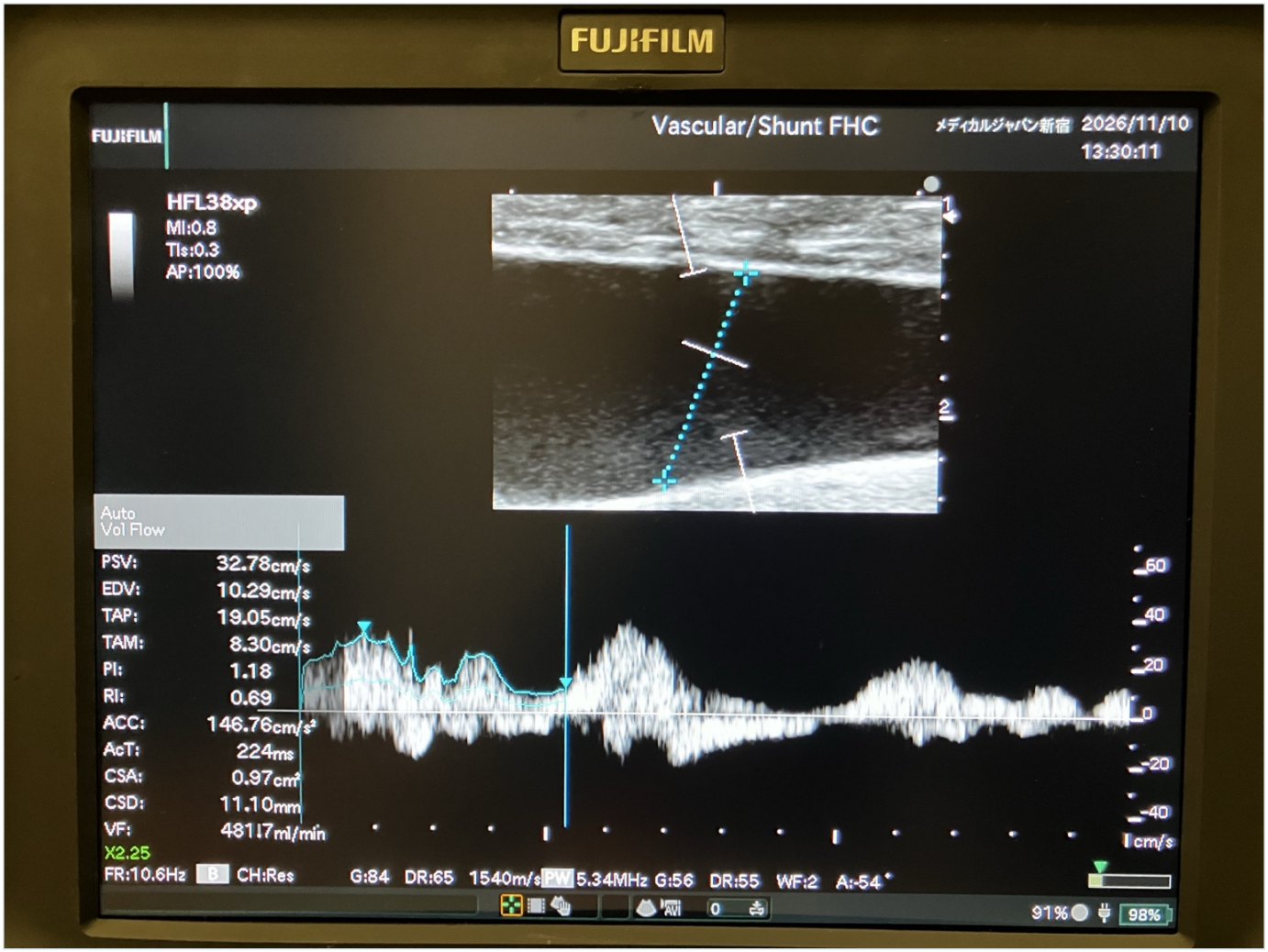
Blood flow was measured on the left. The estimated flow was lower than on the right. A lower value on one side alone does not show a blockage.

Useful next checks

1. Repeat both scans with the same body and head position and normal breathing.
2. Measure the actual vein area in a cross-section, rather than using width alone.
3. A clinician can check whether the vein closes with gentle probe pressure and use color Doppler to check the flow.

Right neck vein

Image 2 | Scan time: 13:30:11



Vein width	Average speed	Estimated flow
11.10 mm	**8.30 cm/s**	**481.7 mL/min**

How to use these results

The right side has the higher estimated flow. A clinician should review the full scan and the person's symptoms before deciding whether further tests are needed.

Background sources

[1] Normal differences between the left and right neck veins (2015).

[2] Limits of automatic vein flow measurements (2018).

[3] How breathing, heartbeat, and position affect vein flow (2017).

Sources explain the background notes. The measured values come from the two original images above.