

SUPPLEMENTARY MATERIAL

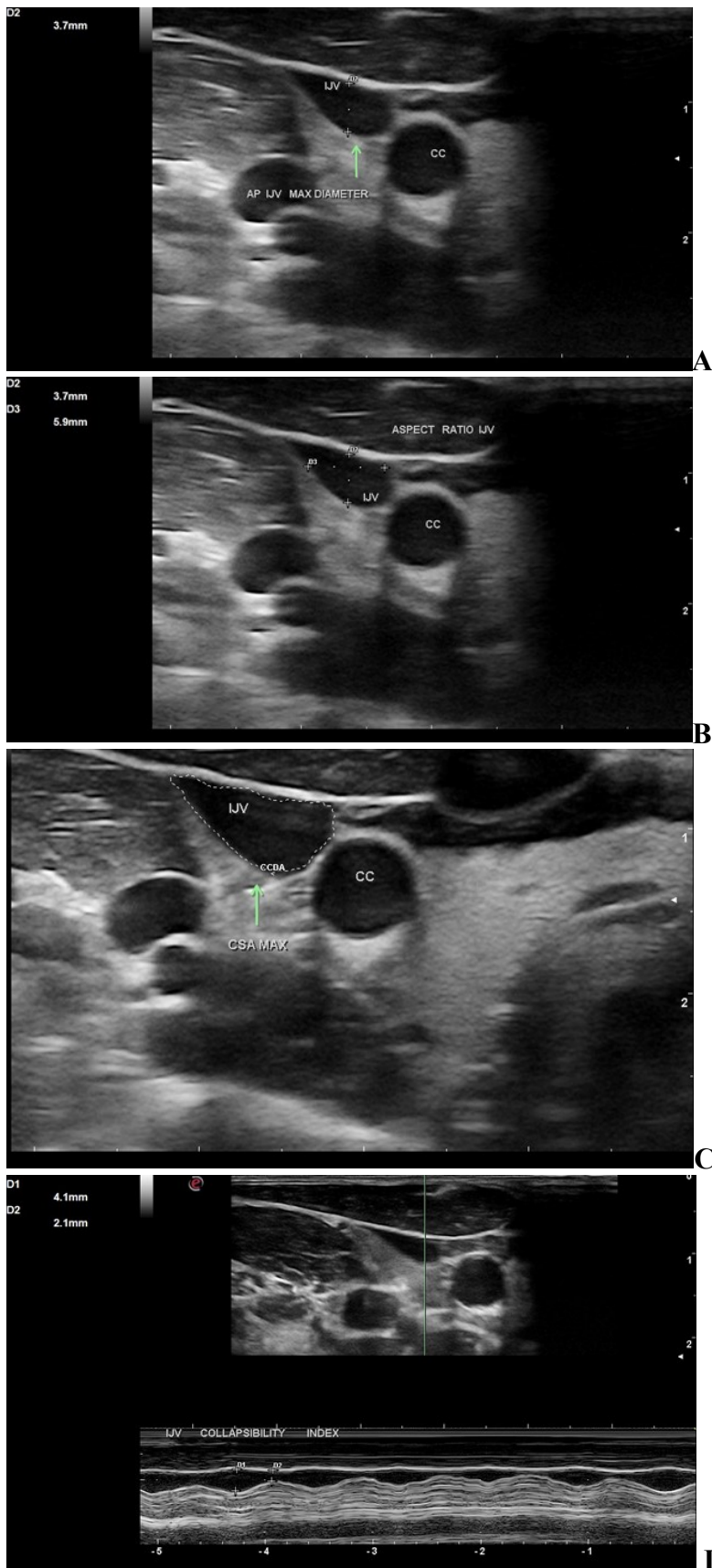
Reproducibility and inter-observer variability of the internal jugular vein ultrasonographic assessment: a multicenter cross-sectional study

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Supplementary Figure 1. Ultrasound measurements of the internal jugular vein. A) The maximum, expiration, anterior-posterior diameter of Internal Jugular Vein (AP-IJV maximum). B) The Aspect ratio of Internal Jugular Vein , based on the formula: maximum anterior-posterior diameter of Internal Jugular Vein / maximum lateral, transversal diameter of Internal Jugular Vein (AP-IJV/LL-IJV). C) The Maximum area of IJV (CSA). D) The collapsibility index (using the M-Mode), derived by the formula: $[(\text{Max diameter} - \text{Min diameter}) / (\text{Max diameter})] \times 100\%$.

Supplementary Table 1. Baseline characteristics of patients.

	Patients (n=10)
Age, years, mean (SD)	77 (12)
BMI, kg/m ² , mean (SD)	25 (3.5)
BSA, m ² , mean (SD)	1.58 (0.58)
Gender male, n (%)	5/10 (50)
Heart failure as main diagnosis, n (%)	3/10 (30)

BMI, body mass index; BSA, body surface area. To calculate BSA, we used the Du Bois formula: $BSA = (W^{0.425} \times H^{0.725}) \times 0.007184$.

Supplementary Table 2. Comparison of measurements registered from patients using ultrasound of internal jugular vein in different views: right vs. left side.

	Right side (n=53) median [IQR]	Left side (n=53) median [IQR]	p
AP-IJV max, mm			
Mandibular angle	3.85 [2.7, 5.10]	2.85 [2.25, 3.75]	0.04
Cricoid	5 [3, 7.7]	3.95 [2.45, 5.75]	0.05
Supraclavicular	7.55 [4.5, 10.7]	7.6 [5.2, 9.20]	0.69
CSA-IJV max, cm²			
Mandibular angle	0.23 [0.13,0.40]	0.15[0.09,0.27]	0.03
Cricoid	0.32 [0.16,0.66]	0.23 [0.10,0.39]	0.04
Supraclavicular	0.52 [0.17,1]	0.53 [0.24,0.81]	0.95
Aspect ratio			
Mandibular angle	0.43 [0.34,0.59]	0.44[0.34,0.56]	0.91
Cricoid	0.49 [0.36,0.69]	0.57 [0.34,0.76]	0.72
Supraclavicular	0,66 [0.57,0.92]	0.77 [0.55,0.99]	0.50

AP-IJV max, antero-posterior, end-expiratory internal jugular vein diameter; CSA-IJV max, the end-expiratory IJV area; aspect ratio, the ratio between the AP-IJV Dmax and transversal IJV diameter (LL-IJV max); IQR, inter quartile range. The data derive from a cross-sectional observational study planned to verify whether the measurements of the ultrasound variables of the internal jugular are influenced by the laterality of the execution of the examination.