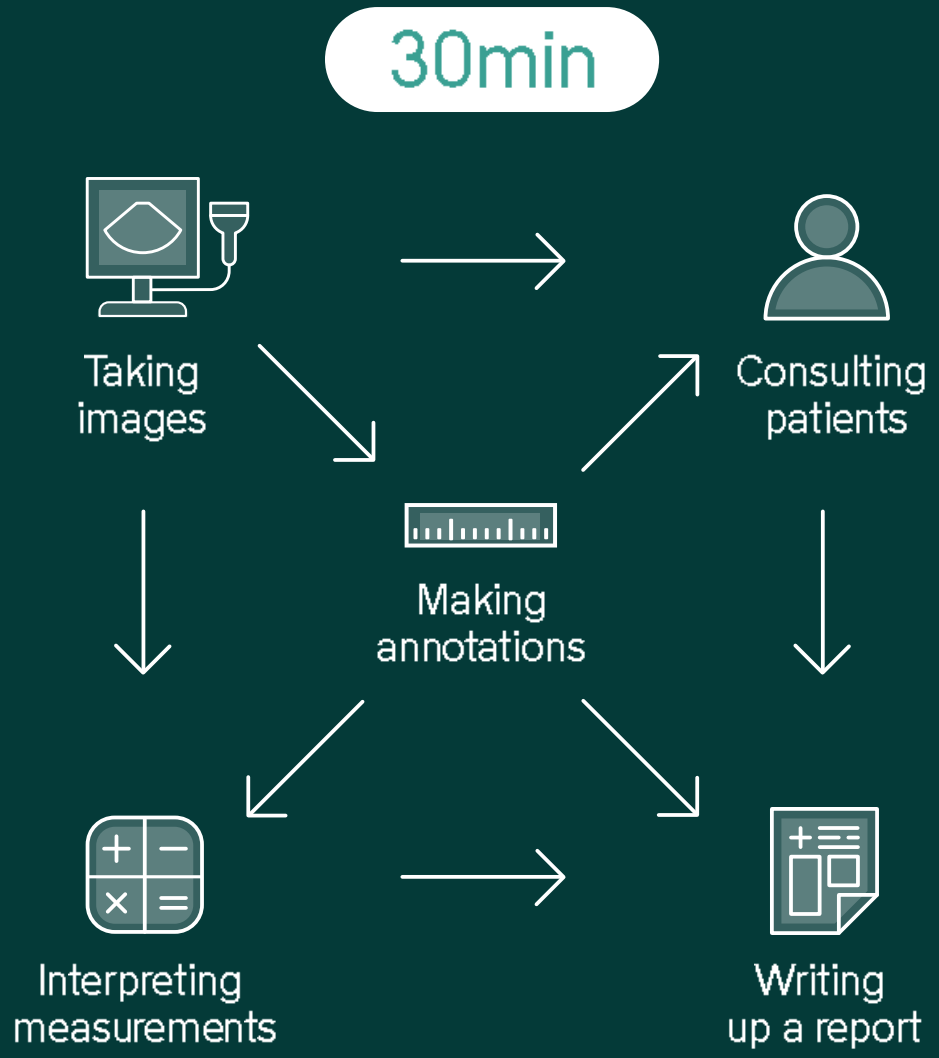
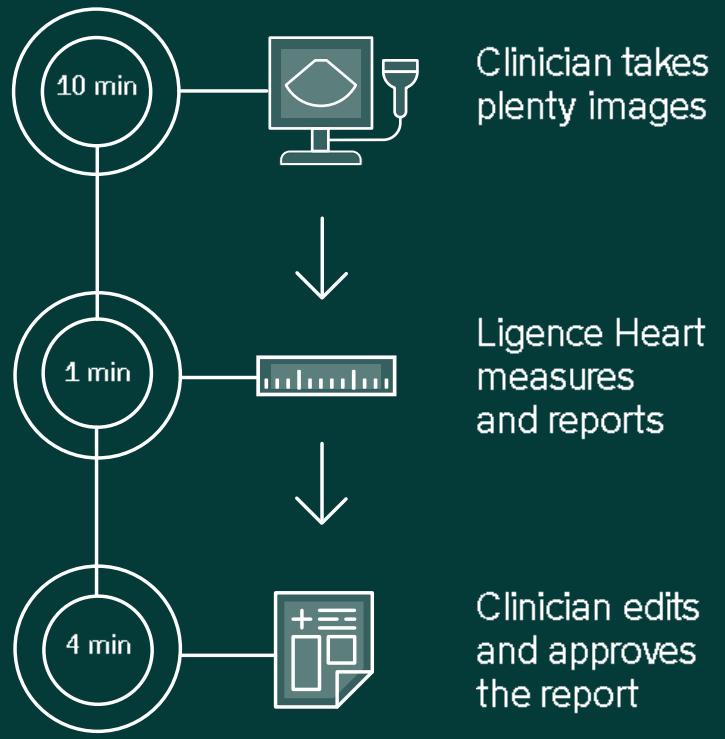
Hectic echo workflow now



Echo workflow that makes sense

Workflow with Ligence Heart

15min



All you need is a software

Ligence Heart™

Software for Intelligent Heart Ultrasound Analysis

EU-MDR 2017/745

ISO 13485:2016

(Echocardiography 2015; 32: 1233– 1240)Quality Control and Reproducibility in M-Mode, Two-Dimensional, and Speckle Tracking Echocardiography Acquisition and Analysis: The CARDIA Study, Year 25 Examination Experience
Picard MH,American Society of Echocardiography. American Society of Echocardiography recommendations for quality echocardiography laboratory operations. J Am Soc Echocardiogr. 2011 Jan;24(1):1-10.
Wharton G, Steeds R, Allen J, et al. A minimum dataset for a standard adult transthoracic echocardiogram: a guideline protocol from the British Society of Echocardiography. Echo Res Pract. 2015;2(1):G9-G24.
Papolos, A., Narula Hospital Use of Echocardiography: Insights From the Nationwide Inpatient Sample. J. Am. Coll. Cardiol. 67, 502–511 (2016) Benefits of an open access echocardiography service: a Dutch prospective cohort study, Neth Heart J. 2013 Sep; 21(9): 399–4a05.

Ligence Heart™ 29 automatic measurements

Heart failure

HFrEF

EF BP
EDV BP
ESV BP
LVIDd
IVSd
LVPWd

HFpEF

MV E
MV A
Med E'
Lat E'
TR PG
LA Volume

Aortic stenosis

AV Peak Vel
AV PG
AV MG
AV VTI
LVOT Peak Vel
LVOT VTI
LVOTd

HCM/Amyloidosis

MV E, MV A,
Med E', Lat E'
TR PG
LVEF HCM
LA Volume
LVIDd, IVS, LVPWd
LV GLS
LA GLS

50+ measurements in 2024

Standardized reporting

Echocardiography Report

Ligence

Patient	Laura Mathieu
Patient ID	1025
Study date	2022-06-03
Sex	Male
Weight	90 (kg)
Height	170 (cm)
BSA	2.06 (Mosteller)

Measurement	Value	Units (normal ranges)	Description
Aortic Root Dimensions			
AoS	**35.5**	mm (31 - 37)	Aortic Sinus Diameter
AoSi	**17.2**	mm/m² (15 - 19)	Aortic Sinus Diameter Index
STJ	**28.7**	mm (26 - 32)	Sinotubular Junction
STJi	**13.9**	mm/m² (13 - 17)	Sinotubular Junction Index
AAo	**29.8**	mm (26 - 34)	Ascending Aorta Diameter
AAoi	**14.5**	mm/m² (13 - 17)	Ascending Aorta Diameter Index
Aortic Valve			
AV Vmax	**1**	m/s	Aortic Peak Velocity
APG	**4.04**	mmHg	Aortic Peak Gradient
AMG	**2.52**	mmHg	Aortic Mean Gradient
AV VTI	**22.2**	cm (18 - 25)	Aortic Valve Maximum Velocity Time Integral
Left Ventricle			
IVSd ↑	**10.5**	mm (6 - 10)	Interventricular Septum (diastole)
LVPWd	**9.35**	mm (6 - 10)	Left Ventricular Posterior Wall (diastole)
LVEDD ↑	**67.7**	mm (42 - 58)	Left Ventricular End-Diastolic Diameter
LVEDDi ↑	**32.8**	mm/m² (22 - 30)	Left Ventricular End-Diastolic Diameter Index
LVM ↑	**301.4**	g (88 - 224)	Left Ventricular Mass
LVMi ↑	**146.2**	g/m² (49 - 115)	Left Ventricular Mass Index
RWT	**0.29**	(0.24 - 0.42)	Relative Wall Thickness
LVEDV (4Ch)	**261.4**	ml	Left Ventricular End Diastolic Volume (A4CH)
LVEDVi (4Ch)	**126.8**	ml/m²	Left Ventricular End Diastolic Volume Index (A4CH)

Value created

	Clinician only	Clinician + AI conservative	Clinician + AI optimistic
Exam time	30 min	25 min	15 min
Echo (2D TTE) price	€150		
Patients analysed per day per clinician (8h)	16	19	32
Patients analysed per year per clinician	4160	4940	8320
Revenue per year per clinician	$624 000	$741 000	$1 248 000
Objective value per clinician per year		$117 000	$624 000

Echo workflow that makes sense

Let’s talk!

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