

HEALTH INFORMATION TECHNOLOGY

# **Reporting Workflow** Echocardiography Reporting Module

# ACV 8.0

doc v1

To build and record a study, ASCEND aggregates and assembles information from multiple data sources, including the hospital information system's electronic health record and the image review workstation.

### HIS / EHR system

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• <del>6- 11</del>		

#### Image review



npressions, recommen	dations - trar	nsthorad	cic		ASCEND General 1234 Main St. Anywhe	Hospital re_USA 02345
Impressions >		Ξ	Recommendations (cont'd)		Phone: (800) 555-1234 Fax: (800) 555-1235	Ļ
Normal study CHD, pediatric Coronary artery disease Coronary artery disease	*		TEE, R/O thrombus	Tra M-mode, co Patient: Mito	msthoracic Echoc omplete 2D, and com shell Carson Study	ardiography plete spectral Doppler 08/09/2018Height: 180 cm
Angina, ischemia, infarcti	on 🕨		TTE, saline 🤾	MRN: #31 Accession: #11	62935 (MRN) date: 2233 Birth	(70.9 in) 12/25/1947Weight: 90 kg
Myocardial disease	Item recorded	T		Patient location:	date:	(198 lb)
No vegetation	8			Study status: Rou	itine Age:	70 year(s) BSA: 2.14 m <sup>2</sup>
Valve disease	No valve disease	▼ ←		Facility: Wes	st Campus Birth	M BMI: 27.8 kg/r
No source of embolism	8				Patient	Outpatient BP:
Lesions/embolic sources	Cannot exclude so				status:	
Pericardial disease		-		Summany		
Manifestations of systemic di	sease 🕨			1. Mild left ventricular	r dysfunction. 🗉	
Hemodynamic description				2. Left ventricle: The	cavity size is normal. Wa	all thickness is normal. 🗏 Syste
Overall assessment	Normal hemo	₩ ←		function is mildly re	educed. The estimated e	jection fraction is 55-65%.
Comparison v prior study	Unchanged	▼ ←		3. Left ventricle: Ther	e is hypokinesis of the a	pical anterior wall. 🗏
Prior study date	2018-08-09	$\forall \leftarrow$		Pacommondations:		
Study data 🐱				1. This procedure has	s been discussed with th	e referring physician. 🗏
Teaching case				A ranstnoracić echo     New recommendatio	on branchography in 6 month	<u>(s)</u> .
IAC candidate ii		-				
				Study data: Race: Wi	hite. 🗉 Study status: Ro	outine. 🗉 Study location: Echc



Patient information is pulled from the hospital information system (HIS), including patient identity, age, birth date, demographics, and the physicians involved in the study. The hospital system reports what kind of study was ordered and where the results will be sent.

#### HIS / EHR system

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#### Image review



mpressions +			Recommendations (cont'd)	ASCEND	1234 Main St Phone: (800) Fax: (800) 55	Anywhei 555-1234 5-1235	re, USA 0234	5	
Normal study CHD, pediatric ► Coronary artery disease Coronary artery disease	*		Refer for cath	General Hospital Tra M-mode, c Patient: Mit	ansthoracic omplete 2D, a chell Carson	Echoc and com Study	ardiograp plete spectr 08/09/2018	hy ral Dop leight:	<b>opler</b> 180 cm
Angina, ischemia, infarcti	on 🕨		TTE, Same	Accession: #1	122335 (MIRIN)	Birth	12/25/1947	Neight:	90 kg
Myocardial disease	Item recorded	T		Patient location:		date:	70 () 7	-	(198 lb)
No vegetation	×			Study status: Ro	utine est Campus	Age: Birth	/Uyear(s) b	SSA:	2.14 m <sup>2</sup>
√alve disease	No valve disease	- ▼ -		racinty. We	st Gampus	aender:	- IVI - I	IR:	27.0 Kg/III
No source of embolism	×					Patient	Outpatient E	3P:	
Lesions/embolic sources	Cannot exclude s	ioui 🔻 🛏				status:			
Pericardial disease		-		Summary:					
Manifestations of systemic di	isease 🕨			1. Mild left ventricula	r dysfunction.	3			
Hemodynamic description				2. Left ventricle: The	cavity size is n	ormal. Wa	II thickness is	normal	I. 🗏 Systolic
Overall assessment	Normal hemo	₩ ←		3 Left ventricle: The	educed. The es	timated e	ection fraction	n is 55-t wali 🗐	65%. 🗉
Comparison v prior study	Unchanged	→ ▼		<ol> <li>New summary item</li> </ol>	is is hypokilles	o or the a	picaramenur	wan. 🗆	
Prior study date	2018-08-09			Recommendations:					
Study data 😽				1. This procedure ha	as been discuss	ed with th	e referring ph	ysician.	
- Teaching case				<ol> <li>Transthoracic ech</li> <li>New recommondation</li> </ol>	ocardiography i	n 6 month	n(s). ⊟		
AC candidate 🗓		-		J. Inew recommendat					
				Churcher allerters Discours M		- t - t	ution E Oto	de la serie de	- <b>-</b> -



When the report is first opened, measurements made on the ultrasound machine will already have been imported into the image review workstation as well as the report. The image review workstation can be used to modify existing measurements or to add new ones, and new or changed measurements can be re-imported.

### HIS / EHR system

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#### **Image review**







The echocardiography reporting module supports a comprehensive set of studies, each being rich in content. The sonographer sets up the study by answering questions in the *Startup* screen using the sonographer workflow. For this example, we will use the 'Transthoracic complete' study.

🥎 Undo 🕜 Redo ? Help	D 🔅 Options 🚫 LEARN		
Startup		Findings Report	
Responses         No questions have been completed.	• Transthoracic (TTE) complete         • Transthoracic (TTE) limited         • Transesophageal (TEE)         • Operative/procedure support         • Cardioversion (TEE)         • Pharmacological stress TTE         • Bruce stress ECG without imaging         • Transcranial Doppler         • Enter manually	Summary       Image: Study data         Patient birthdate:       12/25/1947.         Study type       Observation.         Study type       Observation.         Recommendations       Image: New recommendation	
		8.0	1 A T

Before entering the report, select the sonographer data entry option. This builds a separate user interface for the sonographer and the physician.

🕤 Undo 🛛 👩 Redo 👔	Help 💥 Options 😥 LEARN			
Startup			Findings Report	
Responses	How do you want to start the report		Summary I New summary item	^
What type of study is this? • Transthoracic (TTE) complete	<ul> <li>Start with blank study</li> <li>Prepopulate normal results</li> <li>Go to sonographer data entry now</li> </ul> Previous Begin reporting	9	Study data E Patient birthdate: 12/25/1947. White. Birth gender: male. Study type ! Observation. New recommendation New recommendation	
				~



Each echocardiography laboratory sets policies to delineate the sonographer's and the physician's responsibilities for report generation. In most laboratories, the sonographer is responsible for recording the patient's history, describing the procedure performed, and recording measurements and other results of the procedure.

S Undo 🙋 Redo 💡 Help 👔	Coptions 😡 LEA	RN									
Q SearchI IndexPrior reportsHistory	Study Measurements	Calculations D	)iagrams	Minor abnormalities	Findings	Comparisons		Findings	Report		
History - transthoracic								Summary	E anv item		^
TTE indications >	HPI and inc Pericare	lications (cont'd) <b>lial</b>		LV function Evalu	<i>n (cont'd)</i> ate pre-che	emotherapy	^	Study data	ary item a	17 🗐 White	
HPI and indications ► Signs and symptoms Chest pain Dyspnea Fever Hypotension Murmur Syncope Palpitations Endocarditis, infections ► Bacteremia Endocarditis Coronary CAD Angina pectoris Acute coronary syndrome		ardial disease ion d rhythm rmal ECG fibrillation flutter ac arrest sease a regurgitation a stenosis regurgitation a stenosis regurgitation betic valve ry disease ► onary hypertensio	<ul> <li></li></ul>	Evalu Evalu Prior MI of MI Labs, pr Prior cath Prior cath Prior CAE Prior CAE Prior tran Abnorma Patient s Family hi Smoking Hyperten	ate post-ch dical histo on date ior proceed on on date onary stent 3G 3G on date splant on d I ECG status, ris story of CA sion	dures > on date late k factors >		Patient birtl Patient birtl Birth ger echocardio complete 2 Doppler. E tolerated th Procedure Transthora performed. Scanning w parasternal acoustic wi Recommen New recomm	hdate: 12/25/194 nder: male. Tri graphy. M-mo D, and complete Observation. e procedure well narrative cic echocardiogr Image quality w vas performed fri apical, and sub ndows. mendation	47.	
Myocardial CHF Cardiomegaly Transplant complication Primary cardiomyopathy Hypertrophic cardiomyopathy	Noncard Chro Aorti Strok TIA LV func Evalu	nac disease nic hypertension : dissection e tion nate		Diabetes Dyslipide Allergies Beta bloc Calcium	mellitus mia <b>5, diet, an</b> kers channel blo Scroll for addi	d meds → ockers itional content →	>				

ASCEND

The basic study description is provided by the *Startup* screen choices, and is configured to match your laboratory's preferences. The *Study* tab is used to describe additional information not represented in the study text. This may include the circumstances of the patient and the study, the procedure description, and complications. Sonographers may also leave private notes for the physician, which will be prominently displayed in the *Findings* viewer, but will not show in the

report.							
🕤 Undo 📝 Redo 📪 H	lelp 💥 Options 😥 !	LEARN					
Search Index Prior	History Study Measu s	rements Calculations Diagrar	ns Minor abnormalitie	Findings s	· D	Findings Report	
Study - transthoracic						Summary	
Study data ⊷		Procedure narrative +			Di	Study data	
Patient 🐱		Transthoracic echo 🕨				Patient birthdate: 12/25/1947.  White.  Birth	
Height (cm)		Procedure performed				gender: male. E Transthoracic	
Height (in)		Purpose	Diagnosis	▼ ←		and complete spectral Doppler.	
Weight (kg)		Ultrasound machine		-		E The patient tolerated the procedure well.	
Weight (lb)		Technical difficulty	Limited windows	▼ ←		Procedure narrative 🗉	
Heart rate (bpm)		Image quality	Adequate	<b>▼</b> ×		Transthoracic echocardiography was performed.	
Systolic (mm Hg)	<b>•</b>	Acoustic windows	3 items recorded	-		Image quality was adequate. Scanning was	
Diastolic (mm Hg)	<b>•</b>	Image format	Quad screen	▼ ←		performed from the parasternal, apical, and subcostal acoustic windows	
Study status and location +		Enhancement purpose	Opacify LV	▼ ←			
Patient status	Observation V	Urgent and critical find	lings			New recommendation	
Study status	Routine 🔻 🕂	Orgent and ontiour inte	ings			New recommendation	
Location	Procedure room	Significance	Critical result	<b>▼</b> ←			
Procedure room number		Absence of					
Study type	Transthoracic (TTE) 💌 🗙	Finding					
Study components	3 items recorded	Reported by		-			
Teaching case		Reported to					
Teaching case details	Ξ	Role	0040.00.05				
Changes from preliminary	▼	Date	2018-08-05				
IAC candidate 🗓	<b>•</b>	lime D. III. hussified	11:27:01				
Technical notes [not on a	report] )	Read-back verified					
IAC - echocardiography ii		Adverse outcomes +					
IAC - echocardiography 🗉		No complications					
			Scroll for add	litional content	t→		/



If study data becomes available after you have started reporting, it will not be imported automatically – you will choose if and when you want to import it. ASCEND notifies you that a data set is available by placing a red exclamation point next to the *Data* button in the header. Click *Data* to open the data import interface.

ASCEND	<b>Data</b> Images	Participants Study details	s Workflow I	Print			
			To be read	For atten	nding overread	Preliminary release	Sign Close
🕤 Undo 🛛 🙋 Redo 🛛 💡 H	lelp 💥 Options 🔇	DLEARN					
Search Index Prio	r History Study Me ts	asurements Calculations Diagram	s Minor abnormalities	Findings	Findings R	eport	
Study - transthoracic					Summary		~
Study data 🐱		Procedure narrative +			Di Study data		
Patient ►✓ Height (cm) Height (in) Weight (kg) Weight (lb) Heart rate (bpm) Systolic (mm Hg) Diastolic (mm Hg) Diastolic (mm Hg) Study status and location ► Patient status Study status Location Procedure room number Study type Study components Teaching case Teaching case details Changes from preliminary IAC candidate []	Observation   X   Routine   Y   Procedure room   Y   Transthoracic (TTE)   X   3 items recorded   Y   Image: Second sec	Transthoracic echo → Procedure performed Purpose Ultrasound machine Technical difficulty Image quality Acoustic windows Image format Enhancement purpose Urgent and critical findin Significance Absence of Finding Reported by Reported by Reported to Role Date Time Read-back verified Adverse outcomes →	Diagnosis Diagnosis Limited windows Adequate 3 items recorded Quad screen Opacify LV ngs Critical result		Patient birthd gender: male echocardiogra and complete The patien <b>Procedure n</b> Transthoracic Image quality performed fro subcostal acc <b>Recommend</b> New recomme	ate: 12/25/1947.	ite. I Birth blete 2D, bservation. re well. I s performed. ng was al, and
IAC - echocardiography 🗓	Enforce compliance	N P P	_				
A S C E N D							8.0 v1

A list of available imports will be shown, with patient data and the data source clearly indicated. You may either *Import* or *Decline* any data set. If you decline an import, you can change your mind later.



The participant panel may also display, showing what information is needed. In this case, the sonographer has not been selected. Your lab policies determine which fields are required. Every study must have a responsible physician, which is set automatically to be the user signing the report.

ASCEN	l D <sup>°</sup> Data Ir	nages	Participants Study details	Workflow Print				
				To be read Fo	or atter	nding overread	Preliminary release	Sign Close
🕤 Undo 🕜 Redo 🔮	🕨 Help 💥 Opt	tions 🤇	Catalyst					
Search Index S	tudy Measuremen	its Calcı	ulations Diagrams Minor abnormalities	Findings Comparison	ns D	Findings Repo	rt	
Findings						Study data 🗉		^
Left ventricle 🐱			Ventricular septum (cont'd)		Aor	Patient is 67 yea 12/25/1947. S	r(s) old.	ate: Study
Normal by TTE	8	Parti	cipants				E Height: 70.1 in. E We	eight: 73 kg.
Cavity size	Normal						Ib. 🗏 BMI: 23 kg/m². 🗏	BSA:
Thickness	Normal	Show	only: East Campus Z Echocar	diography 🗸 Role 🗸			te 2D, and complete spe	ectral
Diffuse hypokinesis	Mild	onew	Role	Parti	icipant		ervation. 🗉 Patient unit: I	EC 2B. 🗏
Systolic function workshe	eet ▶						nber: 2011. 🗏 The patie	nt tolerated
Systolic function	Normal		Responsible physician	[none]		-		ni ray. 🖬
EF (%) 山	55-65		Preliminary signer	Inonel			itive 🗉	formed
Normal, no regional abro	ormality 🔽		r reliminary signer	[none]		_	is adequate. Scanning w	lonned. Jas
No RVVIVIA, but limited se	ensitivity		Sonographer	[none]			he parasternal, apical, a	nd subcostal
Cannot exclude abnorma	ality 📋	L					s. 🗏	
High LV filling processo	Absent		Referring physician	Abrahams, Tim	n, MD	<b>—</b>		
Cannot assess due to			Ordering physician	Abrahams, Tim	n. MD		normal. Wall thickness	is normal.
Diastolic function [i]							unction is normal. The es	stimated
Blactone fanction E			Practice	[none]		-	no regional wall motion	louon is
Ventricular septum >							🖁 🗉 Wall motion score: '	1.00. 🗉
Normal		I Thes	e fields are required		O	Cancel	nterpretations	
Thickness							1	
Dyssynergy	Present	▼←	Normal	8	Si	The velve is stru	⊒ sturally pormal. The valv	o is trilooflot
Paradox	Present	▼ ←	Mild aortic calcification	8		Cusp separati	ion is normal. 🗏 Transva	alvular
Other abnormalities		▼ ←	Description	1 New	Pu	velocity is within	the normal range. There	is no
Diastolic flattening	Present	▼ ←	Visualization	rlv visualized ▼←	Ri	stenosis. 🗉 Thei	re is no regurgitation. 🗉	



When the exam is completed, the sonographer marks the study *To be read* or *Preliminary release*, depending on your laboratory's protocol, and closes the study. This lets the physician know that the sonographer's work has been completed.

			To be read	For atte	ending overread	Preliminary release	Sign	Close
🕤 Undo 🛛 🛃 Redo	? Help 💥 Options	Q LEARN						
Search Index	Study Measurements C	calculations Diagrams Minor abnormal	Findings Compari	isons ▶	Findings Repor	t		
Findings					Study data 🗏		1-1-1	<b>`</b> ^
Left ventricle >> Normal by TTE	1	Ventricular septum (cont'd, VSD measurements ▶	)	Aor Ao	Patient is 67 year 12/25/1947.	r(s) old.	date: ■ Study r: male. eight: 73	■ kg.
Cavity size	Normal 🔻 🗙	Aortic valve 🐱	■		E Weight: 160.6	lb. 🗏 BMI: 23 kg/m². 🗏	BSA:	
Thickness	Normal 🔻 🗙	Normal by TTE	8	Mi	1.9 m². ⊟ Franst M-mode_complet	horacic echocardiograp te 2D, and complete sp	hy. ⊟ ectral	
Diffuse hypokinesis	Mild 🔻 🖵	Prosthesis ►		N	Doppler. Obse	rvation. E Patient unit:	EC 2B.	
Systolic function works	heet 🕨	Prosthesis type	Unspecified 🔻 🛏	Vi	Patient room nun	nber: 2011. 🗏 The patie	ent tolera	ted
Systolic function	Normal 💌 🗙	Overall impression	Normal function	Pr	the procedure we	ell. 🗉 Financial class: S	elf Pay. I	
EF (%) 🗓	55-65 💌 🗙	Description 🐱			Procedure narra	itive 🗏		
Normal, no regional ab	normality 🖌	Annular calcification	Mild 🗸 🛏		Transthoracic ecl	hocardiography was pe	formed.	
No RWMA, but limited	sensitivity	Visualization	Not well visualized 🔻 🕂	Ar	Image quality wa	s adequate. Scanning v he parasternal, anical, s	vas and subci	leteo
Cannot exclude abnorr	nality 🗌	Leaflet number	Trileaflet 💌 🗙	Le	acoustic windows			UStar
Regional wall motion w	orksheet 🕨	Appearance	Normal thickness	Bo	l eft ventricle			
High LV filling pressure	Absent 🗸 🛏	Mild sclerosis	8	Ve	The cavity size is	normal Wall thickness	is norm:	al
Cannot assess due to		Sclerosis without stenos	ais 👌	St	Sum E Systolic fu	inction is normal. The e	stimated	
Diastolic function 🗓	Normal diastology 🔻 🕂	Velocity	Normal 🔻 🗙	R	ejection fraction i	s 55-65%. <sup>Sum•</sup> 🗉 Wall i	motion is	;
Vantriaular contum		Stenosis	Absent 💌 🗙		normal; there are	no regional wall motion	ı	
ventricular septum	-	Regurgitation	Absent 💌 🗙	Le	abnormalities.mar	🖉 🗏 Wall motion score:	1.00. 🗏	
Normal				N		nterpretations		
Thickness	Normal 🔍 🕂	Aorta and arteries		Vi	Aortic valve	]		
Dyssynergy	Present 🗸 🕂	Normal	8	Si	The valve is struc	- turally normal. The val-	/e is trile:	aflet
Paradox	Present 🔻 🕂	Mild aortic calcification	8	D.	Cusp separati	on is normal. 🗉 Transv	alvular	anot.
Other abnormalities	Early diastolic notch 🔻 🕂	Description +	1 New	FU	velocity is within	the normal range. There	e is no	
Diastolic flattening	Present 🔻 🕂	Visualization	Poorly visualized V	Ri	stenosis. 🗉 Ther	e is no regurgitation.		
Systolic flattening	Present 🔻 🕂	Size	Normal-sized	N	⊞ Suggested in	nterpretations		
A S C E N	D'					_	8	3.0 v1

The physician interface portion of the study is now available to be opened, read, and signed. Physician's workflow is likely to begin in the *Measurements* tab, where measurements from the study and any relevant reference ranges are located. The measurements displayed here will be shown in the final report.

S Undo	🔗 Redo 🛛 💡 I	Help 👔	≸ Optic	ons 🧕	D LEAR	N					
Q Search	Heas	surements	Calcu	lations	Diagram	s Minor abnormal	ities	Findings	Comparisons	Concl	Findings Report
l afterant	viele	1/-				Deferre		C	Deceder	<b>T</b> _black	Study data 🗏
Len vent	ricie	va	lue		~	Reference		Summary •	Кероп	Table •	Patient is 67 year(s) old. E Patient birthdate:
GLS, 2D,	A4C 🗓		-20.73	×	%						12/25/1947.  ≡ Study date: 07/23/2015.  ≡ Study time: 09:38 PM  ≡W/bite.  ≡Birth gender: male.  ≡
GLS, 2D,	A3C 🗓		-19.56	×	%						Height: 178 cm. I Height: 70.1 in. Weight: 73 kg.
GLS, 2D /	A2C 🗓		-22.97	. × 10	%						
GLS, 3P 🛛	]		-20.95	×	%						1.9 m². E Transthoracic echocardiography.
EDV, 3D	ī	•	120	<b>X</b>	ml	67 - 155	i				Doppler  Observation  Patient unit: EC 2B
ESV, 3D [	i	•	51	<b>X</b>	ml	22 - 58	i				Patient room number: 2011. The patient tolerated
EF, 3D 🗓		+	57	<b>X</b>	%	52 - 72	i				the procedure well. 🗏 Financial class: Self Pay. 🗏
SV, 3D 🗓			69	<b>X</b>	ml						Procedure narrative 🗏
EDV/bsa,	3D 🗓	+	63	- X	ml/m²	35 - 75	i				Transthoracic echocardiography was performed.
ESV/bsa,	3D 🗓	+	27	22 ×	ml/m²	12 - 30	i				Image quality was adequate. Scanning was
SV/bsa, 3	DI		36.3	<b>X</b>	ml/m²						performed from the parasternal, apical, and subcostal
EDD, MM	on 2D 🗓	•	5.8	<b>*</b> ×	cm	4.2 - 5.8	İ				
ESD, MM	on 2D 🗓		4.2	<b>*</b> ×	cm	2.5 - 4.0	i			$\checkmark$	The envity size is ground. Well this larges is ground
FS, MM o	n 2D 🗓	•	28	<b>X</b>	%	25 - 43	i			✓	I ne cavity size is normal, wall thickness is normal.
Mid-wall F	S, MM on 2D 🗓	+	16	<b>X</b>	%	14 - 22	i				ejection fraction is 55-65% sum B Wall motion is
PW, ED, I	MM on 2D 🗉	+	1.0	<b>*</b> ×	cm	0.6 - 1.0	i			✓	normal; there are no regional wall motion
PW, ES, 1	/IM on 2D 🗓		1.2	<b>*</b> ×	cm					✓	abnormalities. <sup>Sum</sup> 🗉 Wall motion score: 1.00. 🗉
PW thicke	ning, MM on 2D 🛙	1	20	<b>X</b>	%						+ Suggested interpretations
IVS/PW, E	ED, MM on 2D 🗓		1.11	<b>X</b>							
PW/ID rat	io, ED, MM on 2D	i	0.17	<b>X</b>							The valve is structurally normal. The valve is trileaflet
Rel thickn	ess, ED, MM on 2	2D 🗓 🔸	0.34			0.24 - 0.42	i				Cusp separation is normal. E Transvalvular
EDV, MM	on 2D Teich. 🗓		167	<b>X</b>	ml	67 - 155	i				velocity is within the normal range. There is no
ESV, MM	on 2D Teich. 🗓		79		ml	22 - 58	i				stenosis. 🗏 There is no regurgitation. 🗏
EF, MM o	n 2D Teich. 🗓	•	53		%	≥55	i				Suggested interpretations
SV, MM o	n 2D Teich. 🗓		88		ml						Systemic arteries 🗉
EDV/bsa.	MM on 2D Teich.	i 🔺	88	×	ml/m²	35 - 75	i				Aortic root: The aortic root is normal-sized ■



#### Additional anatomic, pathologic, and functional findings are located on the *Findings* tab.



## Morphology and function can be compared to prior studies on the *Comparisons* tab.

🅤 Undo 🛛 💽 Redo 📪 Help 🐹 Option	ns 👂 LEAR	RN ]	-			
Search Index I nts Calculations Diag	rams Mino abnorma	r Findings Comparisons lities	Conclusions	Findings Report		
Comparisons	Summary					
Study data ►         Comparison to prior study ►         None available         Report only         Study		Mitral valve (cont'd) Stenosis v prior study Regurgitation v prior study Left atrium ► Atrial size v prior	Unchanged	<ol> <li>Left ventricle: The cavity size is normal. Wall thickness is normal. Systolic function is normal. The estimated ejection fraction is 55-65%. Wall motion is normal; there are no regional wall motion abnormalities.</li> <li>New summary item</li> <li>Allergies, diet, and meds Aspirin allergy.</li> </ol>		
Left ventricle 🐱	E			Study data 🗉		
Cavity size v prior study Unchanged Thickness v prior study Unchanged Hypertrophy v prior study Unchanged Systolic function v prior Unchanged Dynamic obstruction • New Comparison v prior study Unchanged Filling pressure v prior Unchanged Diastolic function v prior Unchanged Ventricular septum •	Y       Unchanged       ✓         Unchanged       ✓       ✓         dy       Unchanged       ✓         Unchanged       ✓       ✓         Unchanged       ✓       ✓         New       ✓       ✓         study       Unchanged       ✓         Unchanged       ✓       ✓         Unchanged       ✓       ✓         New       ✓       ✓         study       Unchanged       ✓         Unchanged       ✓       ✓         Unchanged       ✓       ✓         Unchanged       ✓       ✓         Tricuspid valve       ✓         Tricuspid valve       ✓		Unchanged Unchanged Unchanged Unchanged Unchanged	Patient is 67 year(s) old. □ Patient birthdate: 12/25/1947.         □ Study date: 07/23/2015. □ Study time: 09:38 PM. □         White. □ Birth gender: male. □ Height: 178 cm. □         Height: 70.1 in. □ Weight: 73 kg. □ Weight: 160.6 lb. □         BMI: 23 kg/m². □ BSA: 1.9 m². □ Transthoracic         echocardiography. □ M-mode, complete 2D, and         complete spectral Doppler. □ Observation. □ Patient unit:         EC 2B. □ Patient room number: 2011. □ The patient         tolerated the procedure well. □ Financial class: Self Pay. □         Procedure narrative □         Transthoracic echocardiography was performed. Image		
Description      New		Change v prior study Stenosis v prior study	Unchanged Unchanged	parasternal, apical, and subcostal acoustic windows.		
Shunt v prior study Unchanged		Regurgitation v prior study	Unchanged	Left ventricle		
Aortic valve 🗸		Right atrium 🐱		Systolic function is normal. The estimated ejection fraction		
Change since prior study Unchanged Stenosis v prior study Unchanged		Atrial size v prior	Unchanged	is 55-65%. Mary I Wall motion is normal; there are no regional wall motion abnormalities. Sum I Wall motion score: 1.00.		
Regurgitation v prior study Unchanged		Shunt description  Comparison v prior study	New	Suggested interpretations     Aortic valve		
				8.0 v1		

8.0 v1

#### Physicians are responsible for entering impressions and recommendations on the Conclusions tab.





After reviewing the content of the final patient report, select *Sign* to electronically sign the report and close the study. The report may then be printed or saved.





Upon signature, ASCEND publishes the signed physician report back to the Electronic Health Record. ASCEND also sends the clinical data to ASCEND Analytics for administrative reporting and clinical investigation.



#### HIS / EHR system



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