

HEALTH INFORMATION TECHNOLOGY

Reporting Workflow Nuclear Reporting Module



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, the nuclear lab's monitoring devices, and the image review workstation.

HIS / EHR system

🕐 Help 🔆 Options O LEARN Undo Conclusions Findings Report Q Stress MPI Diagrams table Search Index ASCEND General Hospital Impressions and recommendations 1234 Main St. Anywhere, USA 02345 Phone: (800) 555-1234 ASCEND Impressions > Fax: (800) 555-1235 General Hospital Normal exercise stress ×. **Monitoring device** Myocardial Perfusion Imaging Normal pharmacological stress 2 Bruce protocol Stress impression Gated SPECT and planar imaging Result ₩ 🖵 Study date: 04/30/2009 Height: 180 cm Patient: Albert Roberts Stress type **V** MRN: #NUC123 (MRN) Birth date: 03/14/1979 (70.9 in) Symptom reproduction ▼ ← #NUCSTUDY001 Accession: 30 year(s) Weight: 80 kg (176 lb) Age: Patient location: EC 2B 2011 М BSA: 2.01 m² **V** Birth False positive Study status: BMI: 24.7 kg/m² gender: Limited sensitivity Submaximal stress Facility: East Campus Patient ObservationHR: Limited specificity ▼ ← BP: status: Perfusion summary 1 New Summary: Absence, uncertainty **V** Study suggests 1. Stress-induced regional perfusion abnormality, affecting a moderate-sized region left Syndrome Stress perfusion def - X anterior descending and left circumflex coronary arteries. 2. Stress ECG conclusions: Duke scoring: exercise time of 7 min 14 sec; maximum ST Territory 2 items recorded l v deviation of 8.4 mm; no angina; resulting score is -12. This score predicts a high risk of Response to stress ▼ +--Viable with ische cardiac events Comparison v prior study **T** 3. Rest: Moderately reduced perfusion of the apical anterior wall. Prior study date ▼ ← 4. New summary item Recommendations: New recommendation Recommendations > Prior history: Allergies: Aspirin allergy. Cardiac cath **Image review** ~ > Study data: Race: White. E Patient unit: EC 2B. Patient room number: 2011. Study location: Procedure room # A123. E Consent: The risks, benefits, and alternatives to the procedure were explained to the patient and informed consent was obtained. E Procedure: Initial setup. The patient was brought to the laboratory. A baseline ECG was recorded. Intravenous access was obtained. Surface ECG leads and manual cuff blood pressure measurements were monitored. E Treadmill exercise testing was performed using the < >



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

Monitoring device



Image review



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Result	Normal	▼ ←		Gated SPEC	CT and planar imagir	Ig
Stress type	Maximal exercise	▼ ←	Patient:	Albert Roberts	Study date: 04/30/20 Birth date: 03/14/19	09 Height: 180 cm
Symptom reproduction	Present	▼ ←	Accession:	: #NUCSTUDY001	Age: 30 year(s	s) Weiaht: 80 ka (176 lb)
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From the monitoring device, ASCEND imports a great deal of information, including ECGs, heart rate, and blood pressure monitoring.

HIS / EHR system



Monitoring device



Image review



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An image review workstation is usually positioned side-by-side with the ASCEND reporting interface so you can review the blood flow to the heart muscle both at rest and during stress, optionally embedding images in the report.

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HIS / EHR system



Monitoring device



Image review



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Limited specificity	Baseline ECG	₩ ←		Facility:	East Campus	status:	Observation	BP:	
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The nuclear reporting module supports a comprehensive set of studies, each being rich in content. The technician sets up the study, and then exits the *Startup* screen using the technician workflow. This provides a separate user interface for the technician and the physician. For this example we will use the 'Stress MPI' study.

Startup Finding Report Responses What type of report is this? Summary Im No questions have been completed. Stress MPI (stress results only) Stress MPI (stress results only) Stress MPI (stress results only) Stress MPI (imaging results) Stress MPI (imaging results only) Stress MPI (stress results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) Stress MPI (imaging results only) New recommendations MPI, no stress RNA Enter manually Image: Stress MPI (imaging results only) New recommendation Image: Stress MPI (imaging results only) New recommendation	5 Undo 🌈 Redo ? Help	Coptions Options	-		
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Each nuclear laboratory sets policies to delineate the technologist's and the physician's responsibilities for report generation. In most laboratories, the technologist is responsible for recording the patient's history, describing the procedure performed, and recording staged data and other results of the procedure.





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. Technologists may also leave private notes for the physician, which will be prominently displayed in the *Findings* viewer, but will not show in the

report.		_				
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Study data ► Stress protocol Study type Study components Purpose of study Consent Study status and location ► Patient status Study status Location Procedure room number Study completion ►	Bruce Stress MPI 2 items recorded Item recorded Observation Routine Nuclear lab A123		Oxygen (cont'd) FIO2 (%) Route Face Pharmacologic protocol ► Stress medication Dipyrid Initial rate Rate increment Final rate Rate units mcg/k Adjunct, augmentation Target Exercise protocol ►	mask damole	 <u>Stress ECG conclusions:</u> Duke scoring: exercise time of 7 min 14 sec; maximum ST deviation of 8.4 mm; no angina; resulting score is -12. This score predicts a high risk of cardiac events. ■ <u>New summary item</u> <u>Allergies, diet, and meds</u> <u>Aspirin allergy.</u> <u>Study data</u> Patient is 30 year(s) old. ■ Patient birthdate: 03/14/1979. ■ Study data: 04/30/2009. ■ Study time: 12:16 PM. ■ White. ■ Birth gender: male. ■ Height: 180 cm. ■ Height: 70.9 in. Weight: 80 kg. ■ Weight: 176 lb. ■ BMI: 24.7 kg/m². ■ BSA: 2.01 m². ■ Bruce protocol. ■ Myocardial perfusion imaging. ■ Gated SPECT and planar imaging; rest/stress. ■ The risks, benefits, and alternatives to the procedure were explained to the patient and informed consent was 	
Tolerated well			Duration 7 min	14 sec	obtained.	
Medications given >			Final stage 3		patient tolerated the procedure well. E Financial class: Self	
Tech notes b			Maximal work rate (mets)	8.9	Pay. 🗏	
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ASCEND				,	8.0 v1	L

The *Stress table* tab has a data entry table containing detailed measurements collected during the study. Data taken with the monitoring device is usually imported to the stress table, while data not available for import can be manually inserted using the table tools.

One of the search Open text Prior History Study Stress table Stress MPI Diagrams Conclusions Findings Report	^
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Stress table Columns Keyboard help Summary E	
Stage Time into phase HR (bpm) BP ST/T Rhythm	
1 Baseline 01:00 ▼ × 62 Ⅲ × 122/80 (94) Study data ⊡	
2 Stage 1 03:00 ▼ × 60 Ⅲ × 120/78 (92) Patient is 59 year(s) old. □ Patient birthdate. 03/14/1979 □ Study date: 07/27/2018 □ W	uite
3 Stage 2 06:00 ▼ × 115 Ⅲ × ^{133/84 (100)} ■ Birth gender: male. ■Height: 182.9 cm. ■	
4 Stage 3 09:00	85 lb.
5 Stage 4 12:00 ▼ × 125 Ⅲ × 136/84 (101) □ BMI: 25.1 kg/m². □ BSA: 2.07 m². □ Bruc) Gated
6 Stage 5 15:00 ▼ × 131 Ⅲ × 136/82 (100) SPECT and planar imaging; rest/stress. 目 Th	e
7 Stage 6 18:00 👻 x 129 🔤 x 138/86 (103) risks, benefits, and alternatives to the procedu	re
8 Stage 7 21:00 ▼ × 135 Ⅲ × 140/88 (105) <0.5 mm in II, III and aVF were explained to the patient and informed co	nsent
9 Immediate post stress 21:30 V X 136 V X 138/86 (103) Was obtained. I Observation. If the patient tolerated the procedure well,	
10 Recovery; 1 min 22:00 V X 134 V X 136/84 (101)	
11 Recovery; 2 min 23:00 V X 134 V X 134/84 (101)	
12 Recovery; 3 min 24:00 V X 128 V X 128/84 (99) laboratory. A baseline ECG was recorded.	
13 Recovery; 5 min 26:00 V X 126 V X 128/84 (99) Intravenous access was obtained. Surface EC	G
14 Recovery; 10 min 31:00 V X 124 V X 126/82 (97)	
15 Late recovery exercise testing was performed using the Bru	e
New protocol. 🗉 Gated imaging was performed.	
Injection and imaging times	
Stress data 🗉	
Stress table	
Maximal heart rate during stress was 136 bpr	
(75% of maximal predicted heart rate). The maximal predicted heart rate was 181 bpm. T target heart rate was 154 bpm. 国 The rate- pressure product for the peak heart rate and i pressure was 18900 mm Hg/min. 国	ie lood
Scroll for additional content → Myocardial perfusion	~
ASCEND	8 O v1

Electrocardiographic findings and the stress response during the study can be entered on the Stress tab.



Report

Summary 🗉

Findings

1. <u>Stress ECG conclusions:</u> Duke scoring: exercise time of 7 min 14 sec; maximum ST deviation of 8.4 mm; no angina; resulting score is -12. This score predicts a high risk of cardiac events. ■

New summary item

Allergies, diet, and meds

Aspirin allergy. 🗉

Study data 🛛 🗏

Procedure narrative

Initial setup. The patient was brought to the laboratory. A baseline ECG was recorded. Intravenous access was obtained. Surface ECG leads and manual cuff blood pressure measurements were monitored. ☐ Treadmill exercise testing was performed using the Bruce protocol. The patient exercised for 7 min 14 sec, to protocol stage 3, to a maximal work rate of 8.9 mets. ☐ Gated imaging was performed. 目

Injection and imaging times 📘

Stress data 🛛 🗏



From the *Myocardial perfusion imaging* tab, you can describe myocardial perfusion defects and LV function.

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Search Index Prior Prior	History Study	Stress Stable	Stress MPI Diagrams Conclusions	Findings Report
Findings - myocardial pe	erfusion imag	ging		Summary 🗉
Myocardial perfusion ► Diagram for perfusion by star TID ratio Perfusion defects None	ge ► 0.96		Gated SPECT / LV function (cont'd) Regional abnormality Absent No diagnostic Description ► New	1. <u>Stress ECG conclusions:</u> Duke scoring: exercise time of 7 min 14 sec; maximum ST deviation of 8.4 mm; no angina; resulting score is -12. This score predicts a high risk of cardiac events. 2. <u>New summary item</u> Allergies, diet, and meds Aspirin allergy.
No new defects No significant abnormality Normal perfusion with art Perfusion defects	y Difact New		Segmental locations Consistent with	Study data □ Patient is 30 year(s) old. □ Patient birthdate: 03/14/1979. □ Study date: 04/30/2009. □ Study time: 12:16 PM. □ White. □ Birth gender: male. □ Height: 180 cm. □ Woight: 180 kg.
Defect type Size Severity Segmental locations Timing Delayed reversibility	Reversible Small Mild None Instance			 24.7 kg/m².
Consistent with Vascular territory Viability Artifact Otherwise normal	AD Partial Breast attenuation			Procedure narrative Initial setup. The patient was brought to the laboratory. A baseline ECG was recorded. Intravenous access was obtained. Surface ECG leads and manual cuff blood pressure measurements were monitored. Treadmill exercise testing was performed using the Bruce protocol.
Gated SPECT / LV function	on ₩ 57 Reduced			The patient exercised for 7 min 14 sec, to protocol stage 3, to a maximal work rate of 8.9 mets. Gated imaging was performed. Injection and imaging times Stress data



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.

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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.

Data import					
nding					Refresh
Source info	Patient info	MRN	Account number	Action	Information
8/03/2018 4:13:22 PM IS	Roberts, Albert 03/14/1979	NUC123	NUC123	Import Decline	Contents: New order
3/01/2018 1:47:56 PM IVIA Nuclear	Roberts, Albert 03/14/1979	NUC123	NUC123	Import Decline	
7/24/2018 8:08:22 AM E Case	Roberts, Albert 03/14/1979	NUC123	NUC123	Import Decline	
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The participant panel may also display, showing what information is needed. In this case, the technologist 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.

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Study completion >	R123	<u>!</u>	Technologist	[none]	*	CT and planar imaging; rest/stress. nd alternatives to the procedure atient and informed consent was
Tolerated well Medications given	×		Practice	[none]	*	n. Procedure room # A123. A Patient room number: 2011. The cedure well. Financial class: Self
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Procedure narrative					baseline ECG was	was brought to the laboratory. A
Initial setup Baseline ECG IV access obtained Physiologic monitoring	1 New	d 💌	Gated Image timing Attenuation correction Orbit	Yes Equilibrium Transmission Circular	obtained. Surface E pressure measurem exercise testing was The patient exercise to a maximal work r	CG leads and manual cuff blood ients were monitored. I Treadmill is performed using the Bruce protocol. ad for 7 min 14 sec, to protocol stage 3, ate of 8.9 mets. I Gated imaging was
Oxygen > New			Number of stops Time per stop (see)or at	dditional content	Injection and imagin	ng times 🔲 🗸
A S C E N D						8.0 v1

When the exam is completed, the technologist 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 technologist's work has been completed, and it is available to be opened, read, and signed

		ECG c	omplete	To be read	ECG fell	ow complete	For attending o	verread Pre	liminary releas	e Sigr	Close
🕤 Undo 🕜 Redo 💡 H	elp 🔆 Option	ns 🔎	LEARN								
Search Index Prior F	History Study	Stress Si table	tress MPI	Diag ⁻ ams	Conclusion	s	Findings Re	port			
Findings - myocardial per	erfusion imaç	ging	Gated S	SPECT / LV fu	inction (coi	nťd)	Summary: 1. <u>Stress EC(</u> 7 min 14 st	<u>G conclusions:</u> ec; maximum S	Duke scoring: ex T deviation of 8.	xercise t .4 mm; r	ime of
Diagram for perfusion by stag	ge ► 0.96		Regior Ab:	nal abnormalit sent diagnostic	ty		angina; res risk of card 2. New summ	liac events. ary item	-12. This score p	predicts	a nign
Perfusion defects None			De	scription +		New	Prior history:	Allergies: Asp	irin allergy. 🗏		
No new defects No significant abnormality Normal perfusion with art	/ 🗆 ifact 🗆			Segmental lo Consistent w	ocations vith	chemia	Study data: F room number: A123.	<u>tace:</u> White. 国 2011. 国 <u>Stud</u> <u>sent:</u> The risks	Patient unit: EC ly location: Proce , benefits, and a	2B. 🗏 I edure ro Iternativ	^D atient om # es to
Perfusion defects Defect type Size	Reversible	▼↩					the procedure consent was of patient was br recorded. Intra	were explained obtained. I Pr ought to the lat avenous access	d to the patient a <u>ocedure:</u> Initial s boratory. A base s was obtained.	ind infor etup. Th line ECC Surface	med ne Gwas ECG
Severity Segmental locations	Mild	▼ ← ▼					leads and mai monitored. using the Brue sec. to protoco	nual cuff blood Treadmill exer e protocol. The ol stage 3, to a	pressure measu cise testing was e patient exercise maximal work ra	rements perform ed for 7 ate of 8 9	were ed min 14 mets
Delayed reversibility Consistent with	None Ischemia	▼ ← ▼ ←					■ <u>Imaging in</u> <u>Study complet</u>	formation: Gate tion: The patier	ed imaging was nt tolerated the p	performe rocedure	ed.
Vascular territory Viability	LAD Partial	▼ ←					Isotope admi Stage	nistration: Rest	Stress	Rest	Stress
Artifact Otherwise normal	Breast attenuation						Agent	Tc-99m sestamibi 6 mCi	Tc-99m sestamibi 24 mCi	Rb- 82	Rb-82
Gated SPECT / LV function	on 😽						Calibration			0 mCi	0 mCi
Calculated EF (%) Global function	Reduced	× × + +					Injection to	00:15	00:15		\

A S C E N D



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.

	E	CG complet	e To be read	ECG fellow complete	For attending ov	erread Preli	iminary release	Sigr	n Clo	se
S Undo 🙋 Redo 🤶 Help	★ Options	Q LEARN	J		—				4	
Search Index Prior Histor	y Study Stress table	s Stress I	MPI Diagrams	Conclusions	Findings Rep	oort				
Impressions and recommen	dations				Summary:			ale in ele		^
Impressions 😽					2. Stress ECG	conclusions: [and consistent w Duke scoring: ex	ercise t	emia. ime of	
Normal exercise stress	8				7 min 14 se	c; maximum S	T deviation of 8.4	1 mm; r	10	
Normal pharmacological stress	3 👌				risk of cardi	ilting score is - ac events. 🗏	12. This score p	redicts	a high	
Stress impression					3. 🗉					
Result Stress tune	Normal				4. New summa	ry item				
Sumptom reproduction	Present	V C			Recommendat	tions: New rec	ommendation			_
False positive	ECG portion	▼ ←			Prior history:	<u>Allergies:</u> Aspir	in allergy. 🗏			
Limited sensitivity	Submaximal stress	▼ ←			Study data: Ra	ace: White. 🗏 I	Patient unit: EC	2B. 🗏 I	Patient	
Limited specificity	Baseline ECG	▼ ←			room number: 2	2011. 🗉 Study	/ location: Proce	dure ro	om #	
Perfusion summary	New				A123. E Cons the procedure v	<u>ent:</u> The risks, vere explained	benefits, and alt	ernativ nd infor	es to med	
Absence, uncertainty	Study suggests	▼ ←			consent was ob	tained. 🗉 <u>Pro</u>	<u>cedure:</u> Initial se	etup. Th	ne	
Syndrome		T			patient was bro	ught to the lab	oratory. A baseli	ne ECC	G was	
Territory	LAD	▼ ←			leads and man	ual cuff blood p	ressure measur	ements	were	
Response to stress	Viable with ischemi	a ▼ ←			monitored. I T	readmill exerci	ise testing was p	erform	ed min 14	
Comparison v prior study	Unchanged	▼ ←			sec, to protocol	stage 3, to a r	naximal work rat	e of 8.9	e mets	
Prior study date	2018-08-03				Imaging info	ormation: Gate	d imaging was p	erforme	ed. 🗏	
Percommendations		E			E Study completion	on: The patient	tolerated the pr	oceaure	e well.	
Cardian anth					Isotope admin	istration:				_
Cardiac cath	3				Stage	Rest	Stress	Rest	Stress	;
					Agent	Tc-99m sestamibi	Tc-99m sestamibi	Rb- 82	Rb-82	
					Injected dose	6 mCi	24 mCi			
					0.12			0 0	A A:	1



The report signature confirmation form shows the final report as it will appear, along with a list of any missing information. In this case, study *Start date/time* is missing. The system may be configured to prevent signing without providing missing data, or may be configured to let you sign anyway, according to your lab's policy. Generally, you will cancel, provide the missing data, and then come back to sign it.

Q D Prior	Report signature confirmation	
Impressions and recon	Study details: The following are required: Study start date/time	pital SA 02345
Impressions 🐱		
Normal exercise stress Normal pharmacologica Stress impression Result	ASCEND General Hospital 1234 Main St. Anywhere, USA 02345 Phone: (800) 555-1234 Fax: (800) 555-1235	ging ging
Stress type Symptom reproduction False positive	Myocardial Perfusion Imaging Bruce protocol Gated SPECT and planar imaging	9 Height: 180 cm (70.9 in) 9 Weight: 80 kg (176 lb)
Limited sensitivity Limited specificity Perfusion summary	Patient:Albert RobertsStudy date:04/30/2009Height:180 cm (70.9 in)MRN:#NUC123 (MRN)Birth date:03/14/1979Weight:80 kg (176 lb)Accession:#NUCSTUDY001Age:30 year(s)BSA:2.01 m²Patient location:EC 2B 2011Birth gender:MBMI:24.7 kg/m²Study status:Patient status:ObservationHP:	BSA: 2.01 m ² BMI: 24.7 kg/m ² HR: onBP:
Syndrome	Facility: East Campus BP:	
Territory Response to stress Comparison v prior s Prior study date	 Summary: 1. LV perfusion is abnormal and consistent with ischemia. 2. <u>Stress ECG conclusions:</u> Duke scoring: exercise time of 7 min 14 sec; maximum ST deviation of 8.4 mm; no angina; resulting score is -12. This score predicts a high risk of cardiac events. 3. 	hemia. time of 7 min 14 a; resulting score is ents.
Pecommendations	Prior history: <u>Allergies:</u> Aspirin allergy.	
Cardiac cath	Study data: <u>Race</u> : White. Patient unit: EC 2B. Patient room number: 2011. <u>Study location</u> : Procedure room # A123. <u>Consent</u> : The risks, benefits, and alternatives to the procedure were explained to the patient and informed consent was obtained. <u>Procedure</u> : Initial setup. The patient was brought to the laboratory. A baseline ECG was recorded. Intravenous access was obtained. Surface ECG leads and manual cuff blood pressure measurements were monitored. Treadmill exercise testing was performed using the Bruce protocol. The patient exercised for 7 min 14 sec, to protocol stage 3, to a maximal work rate of 8.9 mets. <u>Imaging</u>	I Patient room
	I have reviewed this report and assume responsibility for its accuracy and completeness.	e ECG leads and
	Confirm Cancel	onitored. 🗉 Treadmill 🗡



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





ASCEND Analytics







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