ASCEND
HEALTH INFORMATION TECHNOLOGY

CardioLab EP System

Imported Data Elements

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Introduction

The CardioLab EP system data elements that are supported for import into ASCEND are listed in the following tables.

Scope of CardioLab Import

Patient Demographics, fluoroscopy and complications

Patient Demographics

Seg	OBR Phase Name	OBX Type	ASCEND report
PID	*N/A*	*N/A*	Race (disabled by default)
PID	*N/A*	*N/A*	Date of birth (disabled by default)
OBX	Patient Demographics	PT-SEX	Gender (disabled by default)
OBX	Patient Demographics	PT-AGE	Age (disabled by default)
OBX	Patient Demographics	PT-HT-CM	Height
OBX	Patient Demographics	PT-WT-KG	Weight
OBX	Patient Demographics	PT-BSA	BSA (disabled by default)

Fluoroscopy, radiation

Seg	OBR Phase Name	OBX Type	ASCEND report
OBX	XRay Summary	XRAY-FLTIME	Fluoroscopy time
OBX	XRay Summary	XRAY-FLDOSE	Fluoroscopy dose
OBX	XRay Summary	XRAY-CINEDOSE	Cine dose
OBX	XRay Summary	XRAY-TOTDOSE	Total dose

Other, miscellaneous

Seg	OBR Phase Name	OBX Type	ASCEND report
OBX	*Any*	Event_Vitals	Heart rate

EP Measurements

EP SNRT (Sinus Recovery Times table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_SNRT	5.1	SNRT pacing interval in ms	220296	Paced CL
OBX	EP_SNRT	5.2	Corrected SNRT in ms	220298	CSNRT
OBX	EP_SNRT	5.3	Max SNRT in ms	220299	Max CSNRT
OBX	EP_SNRT	5.4	SNRT sinus cycle length in ms	220295	Sinus CL
OBX	EP_SNRT	5.5	SNRT comment	220304	Comments*

EP ATGD (Refractory periods table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_ATGD	5.1	Refractory region	220315	Location*
OBX	EP_ATGD	5.2	Refractory type**	220309	Type (Refractory period)
OBX	EP_ATGD	5.3	Refractory period in ms	220314	Value (Refractory period)
OBX	EP_ATGD	5.4	S1-S1 Interval in ms	128639	S1-S1
OBX	EP_ATGD	5.5	Refractory comment	220351	Comments***

* AV Node maps to AVN, otherwise this field imports as unlisted. The direction (antegrade and retrograde) also maps.

- Both “Atrium” and “Atrial” are accepted

** Refractory type: RRP, FRP, ERP

*** Free text node

EP Baseline Conduction (Basic intervals table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_BaselineConduction	5.1	AA interval in ms	113680	A-A
OBX	EP_BaselineConduction	5.2	VV interval in ms	113681	V-V
OBX	EP_BaselineConduction	5.3	PR interval in ms	220288	PR
OBX	EP_BaselineConduction	5.4	QRS Duration in ms	113685	QRS width
OBX	EP_BaselineConduction	5.5	QT interval in ms	113697	QT
OBX	EP_BaselineConduction	5.6	HIS duration in ms	220290	His duration
OBX	EP_BaselineConduction	5.7	AH interval in ms	113682	A-H
OBX	EP_BaselineConduction	5.8	PA interval in ms	220289	P-A
OBX	EP_BaselineConduction	5.9	HV interval in ms	113683	H-V
OBX	EP_BaselineConduction	5.10	VA interval in ms	220292	V-A
OBX	EP_BaselineConduction	5.11	Corrected QT interval (for HR) in ms	220291	QTc

EP Arrhythmia (Arrhythmia table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_Arrhythmia	5.1	Arrhythmia type*	220778	Rhythm
OBX	EP_Arrhythmia	5.3	Duration of Arrhythmia in ms	128942	Duration
OBX	EP_Arrhythmia	5.4	Sustained?**	220777	Sustained
OBX	EP_Arrhythmia	5.5	Number of Cycles	128943	# cycles
OBX	EP_Arrhythmia	5.6	Ventricular cycle length in ms	128945	V-V
OBX	EP_Arrhythmia	5.7	Atrial cycle length in ms	128944	A-A
OBX	EP_Arrhythmia	5.8	Tolerance	128941	Tolerance***
OBX	EP_Arrhythmia	5.9	Initiation	128946	Initiation***
OBX	EP_Arrhythmia	5.10	Termination	128947	Termination***

* Arrhythmia type: Tachy, Brady, SVT, AVNRT, AV Nodal Reentry, AV Nodal Reentry S-F, AV Nodal Reentry F-S, AV Nodal Reentry S-S, VT, Atrial Flutter, Atrial Fibrillation are mapped to existing nodes, otherwise this field imports as unlisted
** Sustained: N, Y
*** Free text node

EP Conduction Block (Conduction block table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_ConductionBlock	5.1	Pacing interval in ms	128798	Blocked CL
OBX	EP_ConductionBlock	5.2	Description	220353	Block type*

EP Ablations (Ablations table)

Seg.	OBX Type	Seq.	Element Name	CPCode	ASCEND report
OBX	EP_ Ablation	5.4	Duration in s	79289	Duration
OBX	EP_ Ablation	5.5	Target arrhythmia**	130089	Target rhythm
OBX	EP_ Ablation	5.6	Result		N/A
OBX	EP_ Ablation	5.7	Max temperature 1 in deg cel	79292	Temperature (max)
OBX	EP_ Ablation	5.8	Average temperature 1 in deg cel	79291	Temperature (avg)
OBX	EP_ Ablation	5.9	Max power in watts	79295	Power (max)
OBX	EP_ Ablation	5.10	Average power in watts	79294	Power (avg)
OBX	EP_ Ablation	5.11	Max impedance in ohms	79298	Impedance (max)
OBX	EP_ Ablation	5.12	Average impedance in ohms	79297	Impedance (avg)
OBX	EP_ Ablation	5.13	Max current in mA	267616	Current (max)
OBX	EP_ Ablation	5.14	Average current in mA	267615	Current (avg)
OBX	EP_ Ablation	5.15	Max voltage in V	267619	Voltage (max)
OBX	EP_ Ablation	5.16	Average voltage in V	267618	Voltage (avg)
OBX	EP_ Ablation	5.17	Device name*		N/A
OBX	EP_ Ablation	5.18	Ablation comment	88124	Comments***

* Device name does not import as there is no target for it in the table. Device name is the Generator but not the ablation type. Using the Generator to figure out the ablation type (e.g. if they used CryoCath to deduct that ablation type was a Cryo ablation) is not feasible. Device name can be: EPT1000 TC, Stockert, Medtronic ATAKAR II, CryoCor, CryoCath, PEIAtakr, PEIEpt1000, PEIStockert,PEIHat200, PEIHat300S, PEIIbi1500T. Atakr, Atakr I.
** Target arrhythmia: Tachy, Brady, SVT, AVNRT, AV Nodal Reentry, AV Nodal Reentry S-F, AV Nodal Reentry F-S, AV Nodal Reentry S-S, VT, Atrial Flutter, Atrial Fibrillation are mapped to existing nodes, otherwise this field imports as unlisted
*** Free text node
Result does not import.

Procedure Import

Procedural Step Macros

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Ablation procedure	Ablation was performed.	{Ablation}	QR.CL.Ablation
Atrial Flutter Ablation	Procedure narrative: Ablation was performed. EP results: Atrial flutter:	{Ablation.AFl}	QR.CL.Ablation.AFl
AV Node Ablation	Ablation was performed. AV nodal arrhythmia: Ablation lesions were applied to the AV node.	{Ablation.AVN}	QR.CL.Ablation.AVN
AVNRT Ablation	Ablation was performed. AV nodal reentry tachycardia: Ablation was performed at the AVNRT.	{Ablation.AVNRT}	QR.CL.Ablation.AVNRT
Cryo Ablation Performed	Cryoablation was performed. Cryoablation lesions were applied.	{Ablation.Cryo}	QR.CL.Ablation.Cryo
RF Ablation Performed	Radiofrequency ablation was performed. Radiofrequency ablation lesions were applied.	{Ablation.RF}	QR.CL.Ablation.RF
SVT Ablation	Procedure narrative: Ablation was performed. EP results Supraventricular tachycardia:	{Ablation.SVT}	QR.CL.Ablation.SVT
WPW Ablation	Procedure narrative: Ablation was performed. EP results WPW accessory pathway: Delta wave Present SVT participation Yes These accessory pathway ablations were performed.	{Ablation.WPW}	QR.CL.Ablation.WPW
Access Obtained	Access	{Acc}	QR.CL.Acc
Arterial access	Arterial access.	{Acc.A}	QR.CL.Acc.A
L Brachial artery access	Left brachial artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique.	{Acc.A.Brach.L}	QR.CL.Acc.A.Brach.L
R Brachial artery access	Right brachial artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A catheter was inserted into the vessel.	{Acc.A.Brach.R}	QR.CL.Acc.A.Brach.R
L Femoral artery access	Left femoral artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for catheter placement.	{Acc.A.Fem.L}	QR.CL.Acc.A.Fem.L
R Femoral artery access	Right femoral artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for catheter placement.	{Acc.A.Fem.R}	QR.CL.Acc.A.Fem.R
L Radial artery access	Left radial artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A 20 gauge angiocath catheter was inserted into the vessel.	{Acc.A.Rad.L}	QR.CL.Acc.A.Rad.L

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
R Radial artery access	Right radial artery access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A 20 gauge angiocath catheter was inserted into the vessel.	{Acc.A.Rad.R}	QR.CL.Acc.A.Rad.R
Micropuncture Used	[Vessel]. The vessel was entered with a Micro needle.	{Acc.Micro}	QR.CL.Acc.Micro
Transseptal puncture	Transseptal catheterization. Transseptal access was obtained.	{Acc.Septal}	QR.CL.Acc.Septal
Sheath Insertion	[Vessel]. A sheath was advanced into the vessel.	{Acc.Sheath}	QR.CL.Acc.Sheath
Ultrasound guided access	[Vessel]. The vessel was entered with ultrasound guidance.	{Acc.US}	QR.CL.Acc.US
L Brachial vein access	Left brachial vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel.	{Acc.V.Brach.L}	QR.CL.Acc.V.Brach.L
R Brachial vein access	Right brachial vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel.	{Acc.V.Brach.R}	QR.CL.Acc.V.Brach.R
L Femoral vein access	Left femoral vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel.	{Acc.V.Fem.L}	QR.CL.Acc.V.Fem.L
R Femoral vein access	Right femoral vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for intravenous fluid administration and catheter placement.	{Acc.V.Fem.R}	QR.CL.Acc.V.Fem.R
L Internal Jugular vein access	Left internal jugular vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for catheter placement.	{Acc.V.IJ.L}	QR.CL.Acc.V.IJ.L
R Internal Jugular vein access	Right internal jugular vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for catheter placement.	{Acc.V.IJ.R}	QR.CL.Acc.V.IJ.R
L Subclavian vein access	Left subclavian vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel.	{Acc.V.SC.L}	QR.CL.Acc.V.SC.L
Contrast Injected for L Subclav access	Left subclavian vein access. The vessel was cannulated with visualization by radiocontrast dye infusion.	{Acc.V.SC.L.Ctr}	QR.CL.Acc.V.SC.L.Ctr
R Subclavian vein access	Right subclavian vein access. The access site was infiltrated with 2% lidocaine. The vessel was entered with the modified Seldinger technique. A sheath was advanced into the vessel and used for catheter placement.	{Acc.V.SC.R}	QR.CL.Acc.V.SC.R

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Sedation Provided by Anesthesia	Sedation. General anesthesia was administered by anesthesiology staff.	{Anesthesia}	QR.CL.Anesthesia
Pulmonary Artery Angio	Right heart catheterization was performed, with contrast angiography. With the catheter in the main pulmonary artery, contrast was injected.	{Angio.PA}	QR.CL.Angio.PA
Arrhythmia Induction	Arrhythmia induction.	{ArrhyInduc}	QR.CL.ArrhyInduc
Cardioversion	Cardioversion.	{Cardioverted}	QR.CL.Cardioverted
L Carotid Sinus Massage	Carotid sinus massage (left) was performed.	{CarotidMassage.L}	QR.CL.CarotidMassage.L
R Carotid Sinus Massage	Carotid sinus massage (right) was performed.	{CarotidMassage.R}	QR.CL.CarotidMassage.R
Celox bandage used	Hemostasis. Vessel closure was achieved with a Celox bandage device.	{Celox}	QR.CL.Celox
Central Line Placed	Central venous access. A catheter was inserted into the vessel.	{CentralLine}	QR.CL.CentralLine
Skin Adhesive Applied	Wound closure. The skin was approximated with Dermabond (2-octyl cyanoacrylate).	{Closure.Adhesive}	QR.CL.Closure.Adhesive
Consent Signed and On Chart	The risks, benefits, and alternatives to the procedure were explained and informed consent was obtained.	{Consent}	QR.CL.Consent
Post procedure counts confirmed	All counts of disposable supplies were correct.	{Count}	QR.CL.Count
Knife blade count confirmed	All instrument counts were correct.	{Count.Blade}	QR.CL.Count.Blade
Electrosurgical Tip count confirmed	All instrument counts were correct.	{Count.ESurg}	QR.CL.Count.ESurg
Injectable needle count confirmed	All needle counts were correct.	{Count.Needle}	QR.CL.Count.Needle
Raytek count confirmed	All sponge counts were correct.	{Count.Raytek}	QR.CL.Count.Raytek
Seldinger needle count confirmed	All needle counts were correct.	{Count.Seldinger}	QR.CL.Count.Seldinger
Post Procedure Sponge Count Confirmed	All sponge counts were correct.	{Count.Sponge}	QR.CL.Count.Sponge
Suture count confirmed	All needle counts were correct.	{Count.Suture}	QR.CL.Count.Suture
Defibrillation	Defibrillation.	{Defibrillated}	QR.CL.Defibrillated
ICD Implantation	Cardioverter defibrillator implantation. The device was attached to the lead(s) and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.ICD.Imp}	QR.CL.Dev.ICD.Imp

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
ICD Implant 1 lead	Right ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the right ventricle. It was secured using non-absorbable suture. Single-chamber cardioverter defibrillator implantation. The device was attached to the lead(s) and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.ICD.Imp.1}	QR.CL.Dev.ICD.Imp.1
ICD Implant 2 lead	Right ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the right ventricle. It was secured using non-absorbable suture. Right atrial lead implantation. Under fluoroscopic guidance, it was advanced to the right atrium. It was secured using non-absorbable suture. Dual-chamber cardioverter defibrillator implantation. The device was attached to the lead(s) and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.ICD.Imp.2}	QR.CL.Dev.ICD.Imp.2
BiVent ICD Implant	Biventricular cardioverter defibrillator implantation. The device was attached to the leads and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.ICD.Imp.BiV}	QR.CL.Dev.ICD.Imp.BiV
ICD Generator Change	Device explantation. The cardioverter defibrillator was detached from the lead(s) and explanted. Cardioverter defibrillator implantation. The device was attached to the leads and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.ICD.Replace}	QR.CL.Dev.ICD.Replace
Loop Recorder Removal	Device explantation. The loop recorder was explanted.	{Dev.LoopRec.Exp}	QR.CL.Dev.LoopRec.Exp
Loop Recorder Insertion	Loop recorder implantation. The device was implanted.	{Dev.LoopRec.Imp}	QR.CL.Dev.LoopRec.Imp
Pacemaker Extraction	Device explantation. The permanent pacemaker was detached from the lead(s) and explanted.	{Dev.PPM.Exp}	QR.CL.Dev.PPM.Exp
Permanent Pacemaker Implant	Permanent pacemaker implantation. The device was implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.PPM.Imp}	QR.CL.Dev.PPM.Imp
Pacer Implant -1 lead	Right ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the right ventricle. It was secured using non-absorbable suture. Single-chamber permanent pacemaker implantation. The device was attached to the lead(s) and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.PPM.Imp.1}	QR.CL.Dev.PPM.Imp.1

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Pacer Implant -2 lead	Right ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the right ventricle. It was secured using non-absorbable suture. Right atrial lead implantation. Under fluoroscopic guidance, it was advanced to the right atrium. It was secured using non-absorbable suture. Dual-chamber permanent pacemaker implantation. The device was attached to the lead(s) and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.PPM.Imp.2}	QR.CL.Dev.PPM.Imp.2
BiVent Pacer Implant	Biventricular permanent pacemaker implantation. The device was attached to the leads and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.PPM.Imp.BiV}	QR.CL.Dev.PPM.Imp.BiV
Pacemaker Generator Change	Device explantation. The device was detached from the lead(s) and explanted. Permanent pacemaker implantation. The device was attached to the leads and implanted; it was then anchored to the underlying fascia with nonabsorbable sutures.	{Dev.PPM.Replace}	QR.CL.Dev.PPM.Replace
Device tested	Device testing was performed. Two-way communication was established between the device and its programmer.	{Dev.Tested}	QR.CL.Dev.Tested
DFT Test	Defibrillation threshold testing was performed.	{Dev.Tested.DFT}	QR.CL.Dev.Tested.DFT
Patient Disposition: Cath Lab Holding	The patient was transferred to cath lab holding.	{Disp.CLHolding}	QR.CL.Disp.CLHolding
Patient Disposition: Critical Care Bed	The patient was transferred to the intensive care unit.	{Disp.ICU}	QR.CL.Disp.ICU
Patient Disposition: Other	The patient was discharged to other location.	{Disp.Other}	QR.CL.Disp.Other
Patient Disposition: Recovery Area	QR.ML.Insert.CSLeadDel	{Disp.Recov}	QR.CL.Disp.Recov
Patient Disposition: Regular Bed	The patient was transferred to an outpatient bed.	{Disp.RegBed}	QR.CL.Disp.RegBed
Patient Disposition: Telemetry Bed	The patient was transferred to the telemetry unit.	{Disp.Tele}	QR.CL.Disp.Tele
Distal pulses checked	Hemostasis. Distal pulses were unchanged.	{DistalPulses}	QR.CL.DistalPulses
Sterile pressure dressing applied to site	Wound closure. A pressure dressing was applied.	{Dress.Press}	QR.CL.Dress.Press
Drug Stimulation	Electrophysiologic testing was performed. Testing protocols: Initial: No provocation. Initial, provocation	{Drug.Stim}	QR.CL.Drug.Stim
EP Mapping	Electrophysiologic testing was performed.	{EPMap}	QR.CL.EPMap

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
EP 3D Mapping	3D mapping.	{EPMap.3D}	QR.CL.EPMap.3D
EP Study	Electrophysiologic testing was performed.	{EPS}	QR.CL.EPS
Atrial Tachycardia Study	Electrophysiologic testing was performed. Stimuli were delivered at atrial sites.	{EPS.AT}	QR.CL.EPS.AT
Baseline Intervals Obtained	Electrophysiologic testing was performed. Measurements of basic intervals were obtained.	{EPS.Base}	QR.CL.EPS.Base
CS/LA Comprehensive EPS	Electrophysiologic testing was performed. Stimuli were delivered at left atrial and coronary sinus sites.	{EPS.LA.CS}	QR.CL.EPS.LA.CS
LV Comprehensive EPS	Electrophysiologic testing was performed. Stimuli were delivered at left ventricular sites.	{EPS.LV}	QR.CL.EPS.LV
Ventricular Tachycardia Study	Electrophysiologic testing was performed. Stimuli were delivered at ventricular sites.	{EPS.VT}	QR.CL.EPS.VT
All equipment removed	All non-implanted equipment used during the procedure was removed.	{EquipRem}	QR.CL.EquipRem
Coronary Sinus Cannulated	Coronary sinus angiography. A steerable catheter was advanced into the coronary sinus.	{Insert.CSLeadDel}	QR.CL.Insert.CSLeadDel
LAA Epicardial Cath	Lariat pericardial access. A long, thin-walled needle was advanced until access to the pericardial space was obtained. A wire was inserted into the pericardial space and the access site was dilated. A soft tip sheath was advanced over the wire into the pericardial space and left in position for the subsequent procedure.	{LAAO.EpiAccess}	QR.CL.LAAO.EpiAccess
LAA Occlusion Device	Watchman left atrial appendage occlusion device. Watchman device size had been estimated by a pre-procedure TEE. The transseptal sheath was exchanged for the 12 Fr Watchman delivery system, which was advanced into the left atrium. The Watchman device was delivered into the left atrium. TEE imaging was repeated in multiple views and correct positioning of the device was observed with no Doppler jets into the left atrial appendage. A tug test was performed to determine the security of the device. The case was paused for 10 mins. TEE measurements were then repeated. Adequate compression was observed. The device was released and permanently delivered.	{LAAO.Internal}	QR.CL.LAAO.Internal

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
LAA Loop Closure	Lariat appendage closure. An endocardial magnet wire was advanced to the apex of the left atrial appendage. An epicardial magnet wire was advanced through the pericardial catheter and manipulated toward the left atrial appendage until a connection with the endocardial magnet wire was achieved. The Lariat suture device was inserted into the pericardium over the epicardial magnet wire and positioned over and around the left atrial appendage. The balloon was inflated. Positioning of the Lariat was confirmed in multiple views to be proximal to the endocardial magnet wire balloon. The loop of the Lariat was closed and no flow was observed into the left atrial appendage. The suture was deployed. The suture was tightened according to protocol. The Lariat device was removed. The sheath was removed over a wire and a drain was placed in the pericardial space.	{LAAO.LoopClose}	QR.CL.LAAO.LoopClose
Lead Disconnect	Lead disconnection. The lead was disconnected.	{Lead.Disconn}	QR.CL.Lead.Disconn
Lead Extraction	Lead extraction. The lead was successfully extracted.	{Lead.Extract}	QR.CL.Lead.Extract
Laser Lead Extraction	Lead extraction. The lead was successfully extracted using a laser sheath.	{Lead.Extract.Laser}	QR.CL.Lead.Extract.Laser
Lead Implant	Lead implantation.	{Lead.Imp}	QR.CL.Lead.Imp
Atrial Lead Implant	Lead implantation. Under fluoroscopic guidance, it was advanced to the atrium.	{Lead.Imp.Atrial}	QR.CL.Lead.Imp.Atrial
LV Lead Implant	Left ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the left ventricle.	{Lead.Imp.LV}	QR.CL.Lead.Imp.LV
RV Lead Implant	Right ventricular lead implantation. Under fluoroscopic guidance, it was advanced to the right ventricle.	{Lead.Imp.RV}	QR.CL.Lead.Imp.RV
Lead Inspection	Lead inspection. The lead was visually inspected.	{Lead.Inspected}	QR.CL.Lead.Inspected
1% Lido to Site	Local anesthesia. 1% lidocaine was administered to the access site.	{Local}	QR.CL.Local
2% Lido to Site	Local anesthesia. 2% lidocaine was administered to the access site.	{Local.2}	QR.CL.Local.2
1% Lido to L Groin	Local anesthesia. 1% lidocaine was administered to the left groin.	{Local.Fem.L}	QR.CL.Local.Fem.L
1% Lido to R Groin	Local anesthesia. 1% lidocaine was administered to the right groin.	{Local.Fem.R}	QR.CL.Local.Fem.R
2% Lido to R Groin	Local anesthesia. 2% lidocaine was administered to the right groin.	{Local.Fem.R.2}	QR.CL.Local.Fem.R.2
1% Lido to R Jugular area	Local anesthesia. 1% lidocaine was administered to the right internal jugular vein access site.	{Local.IJ.R}	QR.CL.Local.IJ.R
1% Lido to R Radial Area	Local anesthesia. 1% lidocaine was administered to the right radial artery access site.	{Local.Rad.R}	QR.CL.Local.Rad.R
Non-invasive ICD test	Noninvasive programmed stimulation testing was performed. Two-way communication was established between the device and its programmer.	{NIPS}	QR.CL.NIPS
Patient Origin: Emergency Room	The patient was admitted from the emergency department.	{Origin.ER}	QR.CL.Origin.ER

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Patient Origin: Transfer from Other Hospital	The patient was transferred from an acute care facility.	{Origin.Transfer}	QR.CL.Origin.Transfer
PA pressure sensor implanted	Successful insertion of pulmonary artery sensor.	{PASensor}	QR.CL.PASensor
Pericardiocentesis	Pericardiocentesis. A long, thin-walled needle was advanced, until fluid was aspirated from the pericardial space. Pericardial fluid was obtained, and samples were sent for analysis.	{PCentesis}	QR.CL.PCentesis
Pocket Formed	Pocket construction.	{Pocket}	QR.CL.Pocket
Pocket created using blunt dissection	Pocket construction. Using blunt dissection, the subcutaneous tissue was dissected to the prepectoral fascia and a pocket was constructed.	{Pocket.Blunt}	QR.CL.Pocket.Blunt
Wound Closure	Wound closure.	{Pocket.Closure}	QR.CL.Pocket.Closure
Pocket Irrigated with Antibiotic Solution	Wound closure. The pocket was irrigated with gentamicin and bacitracin.	{Pocket.Irrigate}	QR.CL.Pocket.Irrigate
Prior Pkt Opening	Pocket opening. The pocket was opened.	{Pocket.Prior}	QR.CL.Pocket.Prior
Programmed Stimulation	Arrhythmia induction. Protocols included programmed stimulation.	{Prog.Stim}	QR.CL.Prog.Stim
Cardiac Rehab Reccommended	There was written documentation of a referral for the patient to an outpatient cardiac rehabilitation program.	{Rec.Rehab}	QR.CL.Rec.Rehab
Smoking Cessation Education provided to Pt	Patient management should include counseling to assist with smoking cessation.	{Rec.SmokeCess}	QR.CL.Rec.SmokeCess
Lead Revision	Lead revision. The lead was manipulated.	{Rev.Lead}	QR.CL.Rev.Lead
Atrial Lead Revision	Atrium lead revision. The lead was manipulated.	{Rev.Lead.Atrial}	QR.CL.Rev.Lead.Atrial
Laser Lead Revision	Lead revision. The lead was manipulated using an excimer laser.	{Rev.Lead}	QR.CL.Rev.Lead.Laser
LV Lead Revision	Left ventricle lead revision. The lead was manipulated.	{Rev.Lead.LV}	QR.CL.Rev.Lead.LV
RV Lead Revision	Right ventricle lead revision. The lead was manipulated.	{Rev.Lead.RV}	QR.CL.Rev.Lead.RV
Foley inserted	Initial setup. The patient was brought to the laboratory. A Foley catheter was inserted.	{Setup.Foley}	QR.CL.Setup.Foley
Grounding Pad Applied	Initial setup. The patient was brought to the laboratory. A grounding pad was placed.	{Setup.Ground}	QR.CL.Setup.Ground
Pt placed on O2	Supplemental oxygen. Oxygen was administered throughout the procedure.	{Setup.Oxygen}	QR.CL.Setup.Oxygen
EKG leads and Multifunction pads applied	Initial setup. The patient was brought to the laboratory. Surface ECG leads were monitored. Self-adhesive defibrillation pads were applied.	{Setup.Pads}	QR.CL.Setup.Pads
Patient prepped and draped in sterile manner	Skin preparation. The planned puncture sites were prepped and draped in the usual sterile manner.	{Setup.Prep}	QR.CL.Setup.Prep

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Time Out Taken	A Time-out procedure was performed. All participants affirmatively agreed to proceed with the study.	{Setup.TimeOut}	QR.CL.Setup.TimeOut
Sheath Exchange	Sheath exchange.	{Sh.Ex}	QR.CL.Sh.Ex
L Brachial artery exchange	Sheath exchange. The left brachial artery sheath was exchanged.	{Sh.Ex.A.Brach.L}	QR.CL.Sh.Ex.A.Brach.L
R Brachial artery exchange	Sheath exchange. The right brachial artery sheath was exchanged.	{Sh.Ex.A.Brach.R}	QR.CL.Sh.Ex.A.Brach.R
L Femoral artery exchange	Sheath exchange. The left femoral artery sheath was exchanged.	{Sh.Ex.A.Fem.L}	QR.CL.Sh.Ex.A.Fem.L
R Femoral artery exchange	Sheath exchange. The right femoral artery sheath was exchanged.	{Sh.Ex.A.Fem.R}	QR.CL.Sh.Ex.A.Fem.R
L Radial artery exchange	Sheath exchange. The left radial artery sheath was exchanged.	{Sh.Ex.A.Rad.L}	QR.CL.Sh.Ex.A.Rad.L
R Radial artery exchange	Sheath exchange. The left radial artery sheath was exchanged.	{Sh.Ex.A.Rad.R}	QR.CL.Sh.Ex.A.Rad.R
L Brachial vein exchange	Sheath exchange. The left brachial vein sheath was exchanged.	{Sh.Ex.V.Brach.L}	QR.CL.Sh.Ex.V.Brach.L
R Brachial vein exchange	Sheath exchange. The right brachial vein sheath was exchanged.	{Sh.Ex.V.Brach.R}	QR.CL.Sh.Ex.V.Brach.R
L Femoral vein exchange	Sheath exchange. The left femoral vein sheath was exchanged.	{Sh.Ex.V.Fem.L}	QR.CL.Sh.Ex.V.Fem.L
R Femoral vein exchange	Sheath exchange. The right femoral vein sheath was exchanged.	{Sh.Ex.V.Fem.R}	QR.CL.Sh.Ex.V.Fem.R
L Internal Jugular exchange	Sheath exchange. The left internal jugular vein sheath was exchanged.	{Sh.Ex.V.IJ.L}	QR.CL.Sh.Ex.V.IJ.L
R Internal Jugular exchange	Sheath exchange. The right internal jugular vein sheath was exchanged.	{Sh.Ex.V.IJ.R}	QR.CL.Sh.Ex.V.IJ.R
Sheath Removed	Hemostasis. The sheath was removed.	{Sh.Rem}	QR.CL.Sh.Rem
L Radial Sheath Removed	Left radial artery hemostasis. The sheath was removed.	{Sh.Rem.A.Rad.L}	QR.CL.Sh.Rem.A.Rad.L
R Radial Sheath Removed	Right radial artery hemostasis. The sheath was removed.	{Sh.Rem.A.Rad.R}	QR.CL.Sh.Rem.A.Rad.R
Sheath removed in recovery	Hemostasis. The sheath was removed in the recovery room.	{Sh.Rem.Recov}	QR.CL.Sh.Rem.Recov
Sheaths secured to be pulled in holding	Hemostasis. The sheath was removed in the holding area.	{Sh.Secured}	QR.CL.Sh.Secured
Sheath sutured in place	Hemostasis. The sheath was sutured in place.	{Sh.Sutured}	QR.CL.Sh.Sutured
Hemostasis (NOS)	Hemostasis. The sheath was removed.	{Stasis}	QR.CL.Stasis
Angioseal Deployed	Hemostasis. The sheath was removed. Vessel closure was achieved with an an Angioseal device.	{Stasis.Angioseal}	QR.CL.Stasis.Angioseal
Hemostasis w/ C-clamp	Hemostasis. The sheath was removed. C-clamp compression was applied.	{Stasis.CClamp}	QR.CL.Stasis.CClamp
Closure Device Deployed	Hemostasis. Vessel closure was achieved with a closure device.	{Stasis.Closure}	QR.CL.Stasis.Closure
Hemostasis w/ Fem-stop	Hemostasis. The sheath was removed. Fem-Stop compression was applied.	{Stasis.Femstop}	QR.CL.Stasis.Femstop
Hemostasis w/ Hemoband	Hemostasis. The sheath was removed. Hemoband compression was applied.	{Stasis.Hemoband}	QR.CL.Stasis.Hemoband
Hemostasis w/ Manual Pressure	Hemostasis. The sheath was removed. Manual compression was applied.	{Stasis.Manual}	QR.CL.Stasis.Manual
Mynx Deployed	Hemostasis. Vessel closure was achieved with a Mynx device.	{Stasis.Mynx}	QR.CL.Stasis.Mynx

CardioLab Macro Superset	ASCEND report	ASCEND string for CardioLab	ASCEND Macro Name
Perclose	Hemostasis. The sheath was removed. Vessel closure was achieved with a Perclose device.	{Stasis.Perclose}	QR.CL.Stasis.Perclose
Starclose	Hemostasis. The sheath was removed. Vessel closure was achieved with a Starclose device.	{Stasis.Starclose}	QR.CL.Stasis.Starclose
Leads Sutured In Place	Lead implantation. It was secured using non-absorbable suture.	{Sutured.Lead}	QR.CL.Sutured.Lead
Transesophageal Echocardiogram	Transesophageal echocardiography was performed.	{TEE}	QR.CL.TEE
Temporary Pacemaker	Temporary pacing. Pacing was achieved. Threshold verification and amplitude adjustment was performed.	{Temp.Pacing}	QR.CL.Temp.Pacing
Swan-Ganz Bipolar Pacing Catheter Inserted	Temporary pacing. A new Swan-Ganz Bipolar Pacing was inserted through the sheath and advanced to position under fluoroscopic guidance. Pacing was achieved. Threshold verification and amplitude adjustment was performed.	{Temp.Pacing.Swan}	QR.CL.Temp.Pacing.Swan
Tilt Table Test	Tilt table test protocol. Head up testing was performed.	{Tilt.Table}	QR.CL.Tilt.Table
Intracardiac Ultrasound	Intracardiac echocardiography was performed. A transducer catheter was introduced through the sheath and advanced to the right atrium.	{US.ICA}	QR.CL.US.ICA
Venogram	Venography was performed. Images were obtained.	{Veno}	QR.CL.Veno
Balloon Occlusion Venogram	Venography was performed. Contrast was injected, using a balloon occlusion technique. Images were obtained.	{Veno.BalOcc}	QR.CL.Veno.BalOcc
Coronary Sinus Venogram	Coronary sinus angiography.	{Veno.CS}	QR.CL.Veno.CS
Hepatic Venogram	Venography was performed. Contrast was injected into the hepatic vein. Images were obtained.	{Veno.Hepatic}	QR.CL.Veno.Hepatic
IVC Venogram	Inferior vena cava venography was performed. Contrast was injected by hand into the inferior vena cava vein, through a catheter. Images were obtained in multiple projections.	{Veno.IVC}	QR.CL.Veno.IVC
Portal vein venogram	Venography was performed. Contrast was injected into the portal vein. Images were obtained.	{Veno.Portal}	QR.CL.Veno.Portal
SVC Venogram	Superior vena cava venography was performed. Contrast was injected by hand into the superior vena cava. Images were obtained in multiple projections.	{Veno.SVC}	QR.CL.Veno.SVC

Import to Report Supply Menus

Device import dependence on procedure and folder name

The categories in the CardioLab Hemo equipment folder and subfolders must match the categories exactly. The categories are listed in the first column below. The ASCEND interface is case insensitive.

Mac-Lab categories (subfolders)	ASCEND report finding	ASCEND procedure
Sheaths Access & Sheath Supplies Introducer	Sheath name Needle name	Access Sheath exchange Intracardiac echo Transseptal access Coronary sinus angiogram Upper extremity venogram
Wires Introducer	Wire name	Sheath exchange
Contrast	Contrast agent	Contrast given
Catheters Guide Catheters Diagnostic Catheters	Catheter name	Access Coronary sinus angiogram Upper extremity venogram Transseptal access Transseptal catheterization Access/catheter table
Closure Closure Devices Hemostasis Devices Hemostasis/Closure Devices Miscellaneous	Closure device	Vascular hemostasis
EP Items EP Supplies	Model name (lead)	Lead disconnection Lead inspection Lead revision Lead implantation
EP Items EP Supplies	Model name (device)	Device explantation Device implantation Device testing/NIPS

Inventory import

Inventory cannot directly import into the procedure narrative. Inventory imports as a block into the inventory table. The following fields are supported:

CardioLab inventory description (5.1) = ASCEND model
CardioLab inventory part number (5.2) = ASCEND model number
CardioLab inventory manufacturer (5.4) = ASCEND manufacturer
CardioLab inventory serial number (5.5) = ASCEND serial number

Medications and Contrast

Medication route of administration

Name	ASCEND report
PO	oral
IV	intravenous
Subcut	subcutaneous
Nasal	intranasal
Topical	topical
IA	Intra-arterial
SL	sublingual
IC	intracoronary
Rectal	rectal
IM	IM
Buccal	buccal
Transdermal	transdermal
Inhaled	inhaled
IVP	IV piggyback
Ocular	ocular

Medication units

CardioLab units	Report
mcg	mcg
mg	mg
g	g
ml	ml
l	L
mEq	mEq
units	units
mcg per kg	mcg/kg
mg per kg	mg/kg
mEq per kg	mEq/kg
units per kg	units/kg
Metered dose inhalations	metered doses
ng per min	ng/min
mcg per min	mcg/min
mg per min	mg/min
mg per hr	mg/hr
mEq per hr	mEq/hr
units per hr	units/hr
l per min	L/min
ml/min	ml/min
ml per hr	ml/hr
ng per kg per min	ng/kg/min
mcg per kg per min	mcg/kg/min
mg per kg per hr	mg/kg/hr
mEq per kg per hr	mEq/kg/hr
units per kg per hr	units/kg/hr
mg per kg per min	mg/kg/min
mcg per kg per hr	mcg/kg/hr

CardioLab units	Report
ml/sec	ml/sec
units per min	units/min
mcg per hr	mcg/hr
cc	ml
U per kg	units/kg
l/min	L/min

Local anesthetics

Local anesthetic medications that are not drip, import as a local anesthesia procedure with the volume injected. The medications imported as local anesthetics are:

- Xylocaine
- Lidocaine (Including Lidocaine w/ Epinephrine, and Lidocaine Hydrochloride)
- Carbocaine
- Sensorcaine
- Bupivacaine

Any variation of concentrations is supported, whether they are recorded as a prefix or suffix to the agent name, e.g. 2% lidocaine or Lidocaine 2%.

The Hemo system does not separate the local anesthetics from other medications but they all export as Event_Medication.

- If any of the medications listed in the local anesthesia section export from the device **with a concentration and subcutaneous route**, the medications import as local anesthetics. If the **route is not subcutaneous**, the medications import as unlisted medications.
- If any of the medications listed in the local anesthesia section export from the device **without a concentration**, the medications import as administered medications if they are present in the list of supported medications. If the listed in the local anesthesia section of the export but is not in the listed of supported medications, the medication will import to the unlisted medications.

Complications

Default list of complications

Value of Segment 5.1	ASCEND report
no complications	No complications
1st degree block	1° AV block
2nd degree block	2° AV block
second degree av block	2° AV block
3rd degree block	3° AV block
third degree av block	3° AV block
block LBB	Left bundle branch block
anaphylaxis	Anaphylaxis

Value of Segment 5.1	ASCEND report
angioedema	Angioedema
arrhythmia (nos)	Arrhythmia
asystole	Asystole
atrial fibrillation	Atrial fibrillation
atrial flutter	Atrial flutter
av fistula	AV fistula
av fistula of access site	AV fistula
bradycardia	Bradycardia
cardiac arrest	Cardiac arrest
cardiac perforation	Perforation
cardiogenic shock	Cardiogenic shock
cerebrovascular accident	CVA
stroke	CVA
cholesterol emboli	Cholesterol emboli
tamponade	Tamponade
cardiac tamponade	Tamponade
embolization	Embolization
external bleeding	External bleeding
hypotension	Hypotension
peripheral emboli	Embolization
periprocedural mi	Myocardial infarct
pneumothorax	Pneumothorax
ventricular fibrillation	VF
ventricular tachycardia	VT
svt	SVT
supraventricular tachycardia	SVT
tia	TIA
urticaria	Urticaria
respiratory failure/distress	Respiratory distress
vasovagal reaction	Vagal reaction
pseudoaneurysm of access site	Pseudoaneurysm
pseudoaneurysm	Pseudoaneurysm

Value of Segment 5.1	ASCEND report
renal failure	Renal failure
access perforation, extravasation	Perf, extravasation
access perforation, no extravasation	Perf, no extra
perforation w/ extravasation	Perf, extravasation
perforation w/o extravasation	Perf, no extra
dissection	Vessel dissection
vascular comp-dissection	Vessel dissection
dissection of access site	Dissection
congestive heart failure	CHF
retroperitoneal bleeding	Retroperitoneal
hematoma	Hematoma
hematoma bleeding	Hematoma
vascular comp-hematoma	Hematoma
hematoma-mild	Hematoma, small
hematoma-moderate	Hematoma, moderate-sized
hematoma-severe	Hematoma, large
bleeding (unspecified)	Bleeding
blood loss	Bleeding
hypersensitivity (unspecified)	Contrast reaction *
contrast reaction (minor)	Contrast reaction
contrast reaction-mild	Contrast reaction
contrast reaction-moderate	Contrast reaction
contrast reaction-severe	Contrast reaction
contrast reaction (major)	Contrast reaction
dye reaction - mild	Contrast reaction
dye reaction - severe	Contrast reaction
vessel occlusion of access site	Vessel occlusion
no distal pulse at access site	No distal pulse
death	Death
death (unspecified)	Death
patient death	Death
death due to infection	Death, infectious
cardiac death	Death, cardiac

Value of Segment 5.1	ASCEND report
death due to valvular complication	Death, valvular
death due to vascular complication	Death, vascular
death due to renal complication	Death, renal
neurologic death	Death, neurologic
death due to pulmonary complication	Death, pulmonary
{unknown}	Unlisted

Medications – Default List

OBX 5.1	Report name
abciximab	Abciximab
reopro	Abciximab
reopro (abciximab)	Abciximab
abciximab (bolus)	Abciximab, bolus
abciximab (infusion)	Abciximab , infusion
adenosine	Adenosine
adenosine (ic)	Adenosine, IC route
adenosine (iv)	Adenosine, IV route
adrenaline	Epinephrine
epinephrine	Epinephrine
ancef	Cefazolin
cefazolin	Cefazolin
aspirin	Aspirin
asa	Aspirin
acebutolol	Acebutolol
acyclovir	Acyclovir
ajmaline	Ajmaline
alfentanil	Alfentanil
alteplase	Alteplase
amikacin	Amikacin
aminophylline	Theophylline
theophylline	Theophylline
amiodarone	Amiodarone
amlodipine	Amlodipine
norvasc	Amlodipine
amoxicillin	Amoxicillin
amphotericin	Amphotericin
ampicillin	Ampicillin
argatroban	Argatroban
atenolol	Atenolol
atropine	Atropine
atropine sulfate	Atropine
azimilide	Azimilide
azithromycin	Azithromycin
benadryl	Diphenhydramine
diphenhydramine	Diphenhydramine
benadryl (diphenhydramine)	Diphenhydramine
benztropine	Benztropine
bepridil	Bepridil
bisoprolol	Bisoprolol
bivalirudin	Bivalirudin
angiomax	Bivalirudin
bretylium	Bretylium
bretylol	Bretylium
bretylium tosylate	Bretylium

OBX 5.1	Report name
bretylium tosylate (bretylol)	Bretylium
buclizine	Buclizine
buprenorphine	Buprenorphine
calcium carbonate	Calcium carbonate
calcium chloride	Calcium chloride
calcium gluconate	Calcium gluconate
carvedilol	Carvedilol
cefprozil	Cefprozil
cefuroxime	Cefuroxime
cephalexin	Cephalexin
cetirizine	Cetirizine
chloral hydrate	Chloral hydrate
chlorpromazine	Chlorpromazine
ciprofloxacin	Ciprofloxacin
clarithromycin	Clarithromycin
clindamycin	Clindamycin
clopidogrel	Clopidogrel
co-trimoxazole	Co-trimoxazole
cyclizine	Cyclizine
d5/0.45	D5/0.45
5% dextrose w/ 0.45 ns	D5/0.45
d 5 w	D5W
d5w	D5W
dalteparin	Dalteparin
desloratadine	Desloratadine
dexamethasone	Dexamethasone
diazepam	Diazepam
valium	Diazepam
digoxin	Digoxin
lanoxin	Digoxin
digoxin (lanoxin)	Digoxin
cardizem	Diltiazem
diltiazem	Diltiazem
cardizem (diltiazem)	Diltiazem
dimenhydrinate	Dimenhydrinate
dipyridamole	Dipyridamole
disopyramide	Disopyramide
dobutamine	Dobutamine
dofetilide	Dofetilide
dolasetron	Dolasetron
dopamine	Dopamine
doxycycline	Doxycycline
droperidol	Droperidol
inapsine	Droperidol

OBX 5.1	Report name
inapsine (droperidol)	Droperidol
edrophonium	Edrophonium
encainide	Encainide
enoxaparin	Enoxaparin
lovenox	Enoxaparin
lovenox (enoxiprin)	Enoxaparin
eptifibatide	Eptifibatide
eptifibatide (bolus)	Eptifibatide, bolus
eptifibatide (infusion)	Eptifibatide, Infusion
integrilin	Eptifibatide
erythromycin	Erythromycin
esmolol	Esmolol
etomidate	Etomidate
etomidate_inactive	Etomidate
felodipine	Felodipine
fentanyl	Fentanyl
sublimaze	Fentanyl
fexofenadine	Fexofenadine
flecainide	Flecainide
fluconazole	Fluconazole
flumazenil	Flumazenil
romazicon (flumazenil)	Flumazenil
romazicon	Flumazenil
fondiparinux	Fondiparinux
furosemide	Furosemide
lasix	Furosemide
lasix (furosemide)	Furosemide
ganciclovir	Ganciclovir
gatifloxacin	Gatifloxacin
gentamicin	Gentamicin
glycopyrrolate	Glycopyrrolate
granisetron	Granisetron
haloperidol	Haloperidol
haldol	Haloperidol
heparin	Heparin
heparin (iv)	Heparin, IV route
heparin (ia)	Heparin, IA route
drip heparin	Drip Heparin
heparin drip	Heparin Drip
hydralazine	Hydralazine
hydralazine hcl	Hydralazine
hydrocortisone	Hydrocortisone
cortisol	Hydrocortisone
hydromorphone	Hydromorphone
dilaudid	Hydromorphone
hydroxyzine	Hydroxyzine
ibutilide	Ibutilide
isoproterenol	Isoproterenol
isoproterenol drip	Isoproterenol Drip
isuprel	Isoproterenol
isuprel (isoproterenol)	Isoproterenol
isoprenaline	Isoproterenol
isosorbide dinitrate	Isosorbide dinitrate
isosorbide mono	Isosorbide mono
isradipine	Isradipine
ketamine	Ketamine
ketoconazole	Ketoconazole
labetalol	Labetalol
labetolol	Labetalol
labetalol hydrochloride	Labetalol
lepirudin	Lepirudin

OBX 5.1	Report name
levofloxacin	Levofloxacin
lidocaine	Lidocaine
lidocaine (antiarrhythmic)	Lidocaine
lidocaine hydrochloride	Lidocaine
loratadine	Loratadine
lorazepam	Lorazepam
ativan	Lorazepam
ativan (lorazepam)	Lorazepam
magnesium oxide	Magnesium oxide
magnesium sulfate	Magnesium sulfate
meclizine	Meclizine
meperidine	Meperidine
demerol	Meperidine
methohexital	Methohexital
methylprednisolone	Methylprednisolone
solu medrol	Methylprednisolone
metoclopramide	Metoclopramide
reglan	Metoclopramide
reglan (metoclopramide)	Metoclopramide
metoprolol	Metoprolol
lopressor	Metoprolol
toprol	Metoprolol
metronidazole	Metronidazole
mexiletine	Mexiletine
midazolam	Midazolam
versed	Midazolam
midodrine	Midodrine
milrinone	Milrinone
minocycline	Minocycline
minoxidil	Minoxidil
moricizine	Moricizine
morphine	Morphine
nadolol	Nadolol
nadroparin	Nadroparin
nalbuphine	Nalbuphine
naloxone	Naloxone
narcan (naloxone hydrochloride)	Naloxone
narcan	Naloxone
netilmicin	Netilmicin
nicardipine	Nicardipine
cardene	Nicardipine
nicardene	Nicardipine
cardene (nicardipine)	Nicardipine
nifedipine	Nifedipine
procardia	Nifedipine
procardia (nifedipine)	Nifedipine
nimodipine	Nimodipine
nitrofurantoin	Nitrofurantoin
nitroglycerin	Nitroglycerin
nitroglycerin (ic)	Nitroglycerin, IC route
nitroglycerin (iv)	Nitroglycerin, IV route
nitroglycerin (ia)	Nitroglycerin, IA route
nitroglycerin (sl)	Nitroglycerin, SL route
ntg	Nitroglycerin
nitro paste	Nitroglycerin
drip nitroglycerin	Drip Nitroglycerin
nitroglycerin drip	Nitroglycerin Drip
nitroprusside	Nitroprusside
nipride	Nitroprusside

OBX 5.1	Report name
nipride (nitroprusside sodium)	Nitroprusside
norepinephrine	Norepinephrine
levophed	Norepinephrine
ondansetron	Ondansetron
zofran (ondansetron)	Ondansetron
zofran	Ondansetron
oxybutynin	Oxybutynin
papaverine	Papaverine
prasugrel	Prasugrel
phenytoin	Phenytoin
pindolol	Pindolol
potassium chloride	Potassium chloride
kcl	Potassium chloride
prednisolone	Prednisolone
prednisone	Prednisone
procainamide	Procainamide *
compazine	Prochlorperazine
compazine (prochlorperazine)	Prochlorperazine
prochlorperazine	Prochlorperazine
promethazine	Promethazine
phenergan	Promethazine
propafenone	Propafenone
propofol	Propofol
diprivan	Propofol
propranolol	Propranolol
inderal	Propranolol
inderal (propranolol)	Propranolol
protamine	Protamine
protamine sulfate	Protamine
quinidine gluconate	Quinidine gluconate
quinidine sulfate	Quinidine sulfate

OBX 5.1	Report name
regadenoson	Regadenoson (Lexiscan)
lexiscan	Regadenoson (Lexiscan)
reteplase	Reteplase
ribavirin	Ribavirin
ns	Saline
normal saline	Saline
.9 ns	Saline
0.9 % normal saline	Saline
.9 nacl	Saline
scopolamine	Scopolamine
sodium bicarbonate	Sodium bicarbonate
sodium bicarb	Sodium bicarbonate
sotalol	Sotalol
streptokinase	Streptokinase
Succinylcholine	Succinylcholine
sufentanil	Sufentanil
tenecteplase	Tenecteplase
tetracycline	Tetracycline
thiopental	Thiopental
ticlopidine	Ticlopidine
timolol	Timolol
tinzaparin	Tinzaparin
tirofiban	Tirofiban
tirofiban (bolus)	Tirofiban, bolus
tirofiban (infusion)	Tirofiban, infusion
tocainide	Tocainide
urokinase	Urokinase
valacyclovir	Valacyclovir
vancomycin	Vancomycin
verapamil	Verapamil
warfarin	Warfarin
xylocaine	Lidocaine
{unknown}	Unlisted medications

* Procainamide appears only in the 6.8 & 6.9 GE default lists

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