ASCEND
HEALTH INFORMATION TECHNOLOGY

INVIA Nuclear

Imported Data Elements

Effective date	2020-04-23
Device interface version	7.0
Document version	1

Table of contents

1. Introduction

The INVIA Nuclear data elements that are supported for import into ASCEND are listed in the following tables.

2. Scope of import

2.1 Demographics

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Date of birth	bdate	yyyymmdd	Patient birthdate
Patient gender	sex	Male	Birth gender: male
		Female	Birth gender: female
Patient weight	weight	###.##	Weight: # kg
Units for weight	wgtUnit	kg	
Patient height	Height	###.##	Height: # cm
Units for height	hgtUnit	cm	
Patient race	race	Caucasian	Race: white
		Black	Race: black
		Asian	Race: Asian
		NativeAmericanNativeAlaskian	Race: native American or Alaska native
		NativeHawaiianSouthPacific	Race: native Hawaiian or Pacific islander
		Unspecified	Race: Unspecified
Patient ethnicity	ethnicity	Hispanic	Ethnicity: hispanic
		NotHispanic	Ethnicity: TEXT
		Unspecified	

2.2 Study information

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Study date/time	interpretationDate	yyyy-mm-dd hh:mm:ss	Study date: mm/dd/yyyy Study time: hh:mm AM/PM

2.3 Imaging information

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Injected phase	/PATIENT_DATA /NM_STRESS_FINDINGS		Stage: Stress
	/PATIENT_DATA /NM_REST_FINDINGS		Stage: Rest
	/PATIENT_DATA /NM_DELAY_FINDINGS		Stage: Delayed
Injected	/PATIENT_DATA	pharma Tc99m	Agent: Tc99m

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Radiopharma ceutical	/NM_STRESS_FINDINGS /NM_REST_FINDINGS /NM_DELAY_FINDINGS /INJECTION_DATA/	pharma Tc99mSestamibi	Agent: Tc-99m sestamibi
		pharma Tc99mTetrofosmin	Agent: Tc-99m tetrofosmin
		pharma Tc99mTeboroxime	Agent: Tc-99m teboroxime
		pharma Tc99mRBCInVivo	Agent: Tc-99m RBC (in vivo)
		pharma Tc99mRBCInVivoInVitro	Agent: Tc-99m RBC (in vivo/in vitro)
		pharma Tc99mRBCInVitro	Agent: Tc-99m RBC (in vitro)
		pharma Tl201Chloride	Agent: Tl-201
		pharma I123MIBG	Agent: I-123 MIBG
		pharma I123BMIPP	Agent: I-123 BMIPP
		pharma I123	Agent: I-123
		pharma F18FDG	Agent: F-18 FDG
		pharma F18Flurpiridaz	Agent: F-18 flurpiridaz
		pharma Rb82	Agent: Rb-82
		pharma N13Ammonia	Agent: N-13 ammonia
		pharma O15Water	Agent: O-15 water
		pharma C11Acetate	Agent: C-11 acetate
		pharma F18	Agent: TEXT
		pharma Unknown	
Activity of Injected Radiopharma ceutical in mCi	/PATIENT_DATA /NM_STRESS_FINDINGS /NM_REST_FINDINGS /NM_DELAY_FINDINGS /INJECTION_DATA/	calibrationDose	Calibration dose: ##.# mCi

2.4 Vascular region quantitation

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Perfusion extent in the LAD territory	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LAD']/@value	Stress LAD extent: Integer
Perfusion extent in the RCA territory	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='RCA']/@value	Stress RCA extent: Integer
Perfusion extent in the LCX territory	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LCX']/@value	Stress LCx extent: Integer
Perfusion extent in the entire myocardium	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='Global']/@value @value	Stress Total extent: Integer
Perfusion extent in the LAD territory	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LAD']/@value	Rest LAD extent: Integer

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Perfusion extent in the RCA territory	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='RCA']/@value	Rest RCA extent: Integer
Perfusion extent in the LCX territory	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LCX']/@value	Rest LCx extent: Integer
Perfusion extent in the entire myocardium	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='Global']/@value	Rest Total extent: Integer
Perfusion extent in the LAD territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LAD']/@value	Ischemic LAD extent: Integer
Perfusion extent in the RCA territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='RCA']/@value	Ischemic RCA extent: Integer
Perfusion extent in the LCX territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='LCX']/@value	Ischemic LCx extent: Integer
Perfusion extent in the entire myocardium	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/PERFUSION/LV_PERFUSION_DATA/REGION	[@segment='Global']/@value	Ischemic Total extent: Integer

2.5 Summed perfusion scores

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Global perfusion summed stress score (SSS)	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/REGIONAL_PERFUSION_SCORES/	summedScore	The summed perfusion score measured [Integer] during stress
Global perfusion summed rest score (SRS)	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/REGIONAL_PERFUSION_SCORES/	summedScore	The summed perfusion score measured [Integer] during rest
Global perfusion summed difference score (SDS)	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/PERFUSION/REGIONAL_REVERSIBILITY_SCORES/	summedScore	The summed perfusion score measured with a difference of [Integer]

2.6 Myocardial blood flow (MBF) and coronary flow reserve (CFR)

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Global perfusion summed stress score	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/REGIONAL_PERFUSION_SCORES/	summedScore	The summed perfusion score measured [Integer] during stress
Myocardial blood flow in the LAD territory	/PATIENT_DATA/NM_STRESS_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='LAD']/@value	Myocardial flow Stress LAD: #.## ml/min/g
Myocardial blood flow in the LCX territory	/PATIENT_DATA/NM_STRESS_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='LCX']/@value	Myocardial flow Stress LCx: #.## ml/min/g
Myocardial blood flow in the RCA territory	/PATIENT_DATA/NM_STRESS_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='RCA']/@value	Myocardial flow Stress RCA: #.## ml/min/g
Myocardial blood flow in the entire myocardium	/PATIENT_DATA/NM_STRESS_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='Global']/@value	Myocardial flow Stress Total: #.## ml/min/g
Myocardial blood flow in the LAD territory	/PATIENT_DATA/NM_REST_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='LAD']/@value	Myocardial flow Rest LAD: #.## ml/min/g
Myocardial blood flow in the LCX territory	/PATIENT_DATA/NM_REST_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='LCX']/@value	Myocardial flow Rest LCx #.## ml/min/g
Myocardial blood flow in the RCA territory	/PATIENT_DATA/NM_REST_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='RCA']/@value	Myocardial flow Rest RCA: #.## ml/min/g
Myocardial blood flow in the entire myocardium	/PATIENT_DATA/NM_REST_FINDINGS/FLOW/MBF_DATA/REGION	[@segment='Global']/@value	Myocardial flow Rest Total: #.## ml/min/g
Cardiac flow reserve in the LAD territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/FLOW/CFR_DATA/REGION	[@segment='LAD']/@value	Myocardial flow CFR LAD: #.##
Cardiac flow reserve in the LCX territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/FLOW/CFR_DATA/REGION	[@segment='LCX']/@value	Myocardial flow CFR LCx: #.##
Cardiac flow reserve in the RCA territory	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/FLOW/CFR_DATA/REGION	[@segment='RCA']/@value	Myocardial flow CFR RCA: #.##
Cardiac flow reserve in the entire myocardium	/PATIENT_DATA/NM_ISCHEMIA_FINDINGS/FLOW/CFR_DATA/REGION	[@segment='Global']/@value	Myocardial flow CFR Total: #.##

2.7 17-segment left ventricular regional perfusion scores at rest and stress, and reversibility

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
Stress Perfusion value	/PATIENT_DATA/NM_STRESS_FINDINGS/PERFUSION/REGIONAL_PERFUSION_SCORES/REGION		Stress
Rest Perfusion value	/PATIENT_DATA/NM_REST_FINDINGS/PERFUSION/REGIONAL_PERFUSION_SCORES/REGION		Rest
Regional reversibility value	/PATIENT_DATA/PERFUSION/REGIONAL_REVERSIBILITY_SCORES/REGION		Reversibility [TEXT]
		[@segment= 'ProximalAnterior'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'ProximalAnteroseptal'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= ' ProximalInferoseptal '] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= ' ProximalInferior '] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'ProximalInferolateral'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'ProximalAnterolateral'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'MidAnterior'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
		[@segment= 'MidAnteroseptal'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'MidInferoseptal'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'MidInferior'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'MidInferolateral'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'MidAnterolateral'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'DistalAnterior'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'DistalSeptal'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'DistalInferior'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'DistalLateral'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent
		[@segment= 'Apical'] /@value	0 Normal 1 Mildly reduced 2 Moderately reduced 3 Severely reduced 4 Absent

2.8 Overall LV Function

INVIA Data Class	INVIA XML Section	INVIA XML Data Element	ASCEND Report
EF	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	ef	The calculated left ventricular ejection fraction is [Integer] %.
EDV	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	edv	The left ventricular end-diastolic volume is [Integer] ml.
EDVI	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	edvi	The left ventricular end-diastolic volume index is [Integer] ml/m².
ESV	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	esv	The left ventricular end-systolic volume is [Integer] ml.
ESVI	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	esvi	The left ventricular end-systolic volume index is [Integer] ml/m².
Cardiac Output	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	cardiacOutput	The cardiac output is [Integer] L/min.
Indexed Cardiac Output	/PATIENT_DATA/NM_REST_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	cardiacIndex	The cardiac index is #.# L/(min·m²).
TID	/PATIENT_DATA/NM_STRESS_FINDINGS/FUNCTION/LV_FUNCTION_DATA/	dilation	The TID ratio is #.##.

801 Warrenville Road
Suite 200

Lisle, Illinois 60532

(844) 413-2610

information@ascendhit.com