

GE HEALTHCARE
STATEMENT

DIRECTION DOC2652554 REV 3

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| | | = (SRT, G-A19C, "Apical four chamber") |
| AFILA/2DLA_Vmax(A4C) Alias : 2DLA_Vmax(A4C) | (GEU-106-0167, 99GEMS, "Left Atrium maximal volume by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") (111031, DCM, "Image View") = (SRT, G-A19C, "Apical four chamber") |
| AFILA/2DLA_Vmin(A4C) Alias : 2DLA_Vmin(A4C) | (GEU-106-0168, 99GEMS, "Left Atrium minimal volume by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") (111031, DCM, "Image View") = (SRT, G-A19C, "Apical four chamber") |
| AFILA/2DLA_VpreA(A4C) Alias : 2DLA_VpreA(A4C) | (GEU-106-0169, 99GEMS, "Left Atrium volume at preA time by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") (111031, DCM, "Image View") = (SRT, G-A19C, "Apical four chamber") |
| AFILA/2DLA_EF(BiP) Alias : 2DLA_EF(BiP) | (GEU-106-0170, 99GEMS, "Left Atrium Emptying Fraction from biplane measurements") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") |

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| | by speckle tracking") | |
| AFILA/2DLA_EV(BiP) Alias : 2DLA_EV(BiP) | (GEU-106-0171, 99GEMS, "Left Atrium Emptying Volume from biplane measurements by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") |
| AFILA/2DLA_Vmax(BiP) Alias : 2DLA_Vmax(BiP) | (GEU-106-0172, 99GEMS, "Left Atrium maximal volume from biplane measurements by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") |
| AFILA/2DLA_Vmin(BiP) Alias : 2DLA_Vmin(BiP) | (GEU-106-0173, 99GEMS, "Left Atrium minimal volume from biplane measurements by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") |
| AFILA/2DLA_VpreA(BiP) Alias : 2DLA_VpreA(BiP) | (GEU-106-0174, 99GEMS, "Left Atrium volume at preA time from biplane measurements by speckle tracking") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0018, "AFI") |

Section Right Atrium

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| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/RA Alias: RA Diam | (M-02550, SRT, “Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R- 409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/RA Area Alias: RA Area | (G-A166, SRT, “Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) |
| 2D/RAA diastole Alias: RAA d | (GEU-106-0059, 99GEMS, “Right Atrium Area at Diastole”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32010, SRT, “Diastole”) |
| 2D/RAA systole Alias: RAA s | (GEU-106-0060, 99GEMS, “Right Atrium Area at Systole”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”) |
| 2D/RAD Major Alias: RA Major | (G-A193, SRT, “Major Axis”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R- 409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/RAD Minor Alias: RA Minor | (G-A194, SRT, “Minor Axis”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R- 409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| RAAs(A4C) Alias: RAAs | (17988-7, LN, “Right Atrium Systolic Area”) | |
| RALd(A4C) Alias: RALd A4C | (29466-0, LN, Right Atrium Superior- Inferior Dimension, 4- chamber view”) | (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32011, SRT, “End Diastole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) |
| RAAd(A4C) Alias: RAAd A4C | (17988-7, LN, “Right Atrium Area on Apical four chamber view”) | (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32011, SRT, “End Diastole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) |

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| <p>RAEDV(A-L A4C) Alias: RAEDV AL A4C</p> | <p>(GEU-106-0104, 99GEMS, “Right Atrium Volume”)</p> | <p>(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32011, SRT, “End Diastole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) (G-C036, SRT, “Measurement Method”) = (125205, DCM, “Area-Length Single Plane”)</p> |
| <p>RAEDV(MOD A4C) Alias: RAEDV MOD A4C</p> | <p>(GEU-106-0104, 99GEMS, “Right Atrium Volume”)</p> | <p>(R-4089A, SRT, “Cardiac Cycle Point”) = (F-32011, SRT, “End Diastole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) (G-C036, SRT, “Measurement Method”) = (125208, DCM, “Method of Disks, Single Plane”)</p> |
| <p>RAESV(A-L A4C) Alias: RAESV (A-L A4C)</p> | <p>(GEU-106-106, 99GEMS, “Right Atrium End Systolic Volume”)</p> | <p>(R-4089A, SRT, “Cardiac Cycle Point”) = (109070, DCM, “End Systole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) (G-C036, SRT, “Measurement Method”) = (125205, DCM, “Area-Length Single Plane”)</p> |
| <p>RAESV(MOD A4C) Alias: RAESV(MOD A4C)</p> | <p>(GEU-106-106, 99GEMS, “Right Atrium End Systolic Volume”)</p> | <p>(R-4089A, SRT, “Cardiac Cycle Point”) = (109070, DCM, “End Systole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”) (G-C036, SRT, “Measurement Method”) = (125208, DCM, “Method of Disks, Single Plane”)</p> |
| <p>RALs(A4C) Alias: RALs(A4C)</p> | <p>(29466-0, LN, “Right Atrium Superior-Inferior Dimension, 4-chamber view”)</p> | <p>(R-4089A, SRT, “Cardiac Cycle Point”) = (109070, DCM, “End Systole”) (111031, DCM, “Image View”) = (G-A19C, SRT, “Apical four chamber”)</p> |

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| RAP Alias: RAP | (18070-3, LN, “Right Atrium Systolic Pressure”) | |
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Section Aortic Valve

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/AVA/AV Diam Alias: AV Diam | (G-038F, SRT, “Cardiovascular Orifice Diameter”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| AV Dec Time Alias: AV Dec Time | (20217-6, LN, “Deceleration Time”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| AV Dec Slope Alias: AV Dec Slope | (20216-8, LN, “Deceleration Slope”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PISA/AR/RF Alias: AR RF | (G-0390, SRT, “Regurgitant Fraction”) | (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| MM/AV Diam Alias: AV Diam | (G-038F, SRT, “Cardiovascular Orifice Diameter”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-0394, SRT, “M mode”) |
| MM/%IVS Thck Alias: %IVS Thck | (18054-7, LN, “Interventricular | (G-0373, SRT, “Image Mode”) = (G-0394, SRT, “M mode”) |

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| | Septum % Thickening”) | |
| 2D/AV Diam Alias: AV Diam | (G-038F, SRT, “Cardiovascular Orifice Diameter”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/AV Cusp Alias: AV Cusp | (17996-0, LN, “Aortic Valve Cusp Separation”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/LAX/Trans AVA diastole Alias: Trans AVA (d) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32010, SRT, “Diastole”) |
| 2D/LAX/Trans AVA systole Alias: Trans AVA (s) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”) |
| 2D/SAX/Trans AVA diastole Alias: Trans AVA (d) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on |

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| | | <p>scan mode (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32010, SRT, “Diastole”)</p> |
| <p>2D/SAX/Trans AVA systole Alias: Trans AVA (s)</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32020, SRT, “Systole”)</p> |
| <p>2D/AVA Planimetry Alias: AVA Planimetry</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode (G-C036, SRT, “Measurement Method”) = (125220, DCM, “Planimetry”)</p> |
| <p>2D/AV Area Alias: AV Area</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p> |
| <p>MM/AV Cusp Alias: AV Cusp</p> | <p>(17996-0, LN, “Aortic Valve Cusp Separation”)</p> | <p>(G-0373, SRT, «Image Mode») = (G-0394, SRT, «M mode»)</p> |

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| <p>AV Vmax Alias: AV Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV Vmax P Alias: AV Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV maxPG Alias: AV maxPG</p> | <p>(20247-3, LN, “Peak Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV Vmean Alias: AV Vmean</p> | <p>(20352-1, LN, “Mean Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV meanPG Alias: AV meanPG</p> | <p>(20256-4, LN, “Mean Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV Acc Time Alias: AV AccT</p> | <p>(20168-1, LN, “Acceleration Time”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”)</p> |
| <p>AV VTI Alias: AV VTI</p> | <p>(20354-7, LN, “Velocity Time Integral”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AV Env. Ti Alias: AV Env. Ti</p> | <p>(GEU-106-0080, 99GEMS, “Time duration of the VTI trace on Aortic Valve”)</p> | <p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AVA (VTI) Alias: AVA (VTI)</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT,</p> |

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| | | <p>“Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125215, DCM, “Continuity Equation by Velocity Time Integral”)</p> |
| <p>AVA (Vmax) Alias: AVA Vmax</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |
| <p>AVA (Vmax)2 Alias: AVA Vmax, Pt</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |
| <p>AVA (Vmax)P Alias: AVA Vmax, Pt</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |
| <p>AVA (Vmax)P2 Alias: AVA Vmax</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |

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| <p>AV SV Alias: AV SV</p> | <p>(F-32120, SRT, “Stroke Volume”)</p> | <p>(G-C0E3, SRT, «Finding Site») = (T-42000, SRT, «Aorta»)</p> |
| <p>AV HR Alias: HR</p> | <p>(8867-4, LN, “Heart rate”)</p> | |
| <p>AV SI Alias: AV SI</p> | <p>(F-00078, SRT, “Stroke Index”)</p> | <p>(G-C0E3, SRT, «Finding Site») = (T-42000, SRT, «Aorta»)</p> |
| <p>AV Time To Peak Alias: AV Time to Peak</p> | <p>(GEU-106-0006, 99GEMS, “Time to Peak”)</p> | |
| <p>AV CO Alias: AV CO</p> | <p>(F-32100, SRT, “Cardiac Output”)</p> | <p>(G-C0E3, SRT, «Finding Site») = (T-42000, SRT, «Aorta»)</p> |
| <p>AV CI Alias: AV CI</p> | <p>(F-32110, SRT, “Cardiac Index”)</p> | <p>(G-C0E3, SRT, «Finding Site») = (T-42000, SRT, «Aorta»)</p> |
| <p>AV Acc Slope Alias: AV Acc Slope</p> | <p>(20167-3, LN, “Acceleration Slope”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”)</p> |
| <p>AVET Alias: AVET</p> | <p>(18041-4, LN, “Aortic Valve Ejection Time”)</p> | <p>(G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”)</p> |
| <p>AV Acc Time/ET Ratio Alias: AV Acc Time/ET</p> | <p>(G-0382, SRT, “Ratio of Aortic Valve Acceleration Time to Ejection Time”)</p> | <p>(G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”)</p> |
| <p>AV dp/dt Alias: AV dp dt</p> | <p>(59120-6, LN, “Aortic valve antegrade dp/dt [pressure rate] by US”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>AR PHT Alias: AR PHT</p> | <p>(20280-4, LN, “Pressure Half-Time”)</p> | <p>(G-C048, SRT, “Direction of Flow”) =</p> |

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| | | (R-42E61, SRT, “Regurgitant Flow”) |
| AR Dec Time Alias: AR Dec Time | (20217-6, LN, “Deceleration Time”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| AR Dec Slope Alias: AR Dec Slope | (20216-8, LN, “Deceleration Slope”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| AR Vmax Alias: AR Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| AR maxPG Alias: AR maxPG | (20247-3, LN, “Peak Gradient”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| AR Env. Ti Alias: AR Env. Ti | (GEU-106-0082, 99GEMS, “Time duration of the VTI trace on Aortic Regurgitant flow”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| AR HR Alias: AR HR | (8867-4, LN, “Heart rate”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) |
| Arend Vmax Alias: Arend Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (R-4089A, SRT, “Cardiac Cycle Point”) = (109022, DCM, “End Diastole”) |

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| <p>Arend maxPG Alias: Arend PG</p> | <p>(20247-3, LN, "Peak Gradient")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (R-4089A, SRT, "Cardiac Cycle Point") = (109022, DCM, "End Diastole")</p> |
| <p>AR Vmean Alias: AR Vmean</p> | <p>(20352-1, LN, "Mean Velocity")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow")</p> |
| <p>AR meanPG Alias: AR meanPG</p> | <p>(20256-4, LN, "Mean Gradient")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow")</p> |
| <p>AR VTI Alias: AR VTI</p> | <p>(20354-7, LN, "Velocity Time Integral")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow")</p> |
| <p>AR dp/dt Alias: AR dp/dt</p> | <p>(59120-6, LN, "Aortic regurgitant dp/dt US pressure by rate")</p> | <p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow")</p> |
| <p>PISA/AR/Flow Alias: AR Flow</p> | <p>(34141-2, LN, "Peak Instantaneous Flow Rate")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/AR/Radius Alias: AR Rad</p> | <p>(GEU-106-0004, 99GEMS, "Flow Radius")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM,</p> |

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| | | “Proximal Isovelocity Surface Area”) |
| PISA/AR/Velocity Alias: AR Als.Vel | (GEU-106-0005, 99GEMS, “Alias Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/AR/Vmax Alias: AR Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/AR/VTI Alias: AR VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/AR/ERO Alias: AR ERO | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/AR/RV Alias: AR RV | (33878-0, LN, “Volume Flow”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, |

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| | | “Measurement Method” = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| 2D/AV Annulus Diam Alias: AV Annulus Diam | (79940-3, LN, “Aortic valve annulus Diameter at end systole by US 2D”) | |
| AA_DIAMETER(4D) Alias: AA Diameter 4D | (G-038F, SRT, “Cardiovascular Orifice Diameter”) | (G-C0E3, SRT, “Finding Site”) = (T-35410, SRT, “Aortic Valve Ring”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0098, 99GEMS, “4DautoAVQ quantification tool”) |
| AA_AREA(4D) Alias: AA Area 4D | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C036, SRT, “Measurement Method”) = (GEU-106-0098, 99GEMS, “4DautoAVQ quantification tool”) |
| AA_CIRCUMFERENCE(4D) Alias: AA Circ 4D | (GEU-106-0098, 99GEMS, “Aortic Annulus Circumference on 4D image”) | (G-C036, SRT, “Measurement Method”) = (GEU-106-0098, 99GEMS, “4DautoAVQ quantification tool”) |
| AA_MAX_DIAMETER(4D) Alias: AA Max Dia 4D | (GEU-106-0099, 99GEMS, “Aortic Annulus major semi- axis from ellipse fit on 4D image”) | (G-C036, SRT, “Measurement Method”) = (GEU-106-0098, 99GEMS, “4DautoAVQ quantification tool”) |
| AA_MIN_DIAMTER(4D) Alias: AA Min Dia 4D | (GEU-106-0100, 99GEMS, “Aortic Annulus minor semi- axis from ellipse fit on 4D image”) | (G-C036, SRT, “Measurement Method”) = (GEU-106-0098, 99GEMS, “4DautoAVQ quantification tool”) |

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| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| <p>MV Reg Frac Alias: MV Reg Frac</p> | <p>(G-0390, SRT, “Regurgitant Fraction”)</p> | |
| <p>MR Acc Slope Alias: MR Acc Slope</p> | <p>(20167-3, LN, “Acceleration Slope”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>MR dp/dt Alias: MR dp/dt</p> | <p>(18035-6, LN, “Mitral Regurgitation dP/dt derived from Mitral Reg. velocity”)</p> | |
| <p>PISA/MR/RF Alias: MR RF</p> | <p>(G-0390, SRT, “Regurgitant Fraction”)</p> | <p>(G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>2D/MV Annulus Diam Alias: MV Ann Diam</p> | <p>(G-038F, SRT, “Cardiovascular Orifice Diameter”)</p> | <p>(G-C0E3, SRT, “Finding Site”) = (T-35313, SRT, “Mitral Annulus”) (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p> |
| <p>2D/MV Annulus Diam AP Alias : MV Annulus Diam AP</p> | <p>(GEU-106-0177, 99GEMS,</p> | <p>(G-C0E3, SRT, "Finding Site") =</p> |

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| | "Diameter in Anterior to Posterior direction") | (SRT, T-35313, "Mitral Annulus") |
| 2D/SAX/MVA Alias: MVA Planimetry | (G-038E, SRT, "Cardiovascular Orifice Area") | (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow") (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode (111031, DCM, "Image View") = (G-0397, SRT, "Parasternal short axis") |
| 2D/MVA Planimetry Alias: MVA Planimetry | (G-038E, SRT, "Cardiovascular Orifice Area") | (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow") (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode (G-C036, SRT, "Measurement Method") = (125220, DCM, "Planimetry") |
| 2D/MV Area Alias: MV Area | (G-038E, SRT, "Cardiovascular Orifice Area") | (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade |

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| | | Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/MV Area (PHN) Alias : MV Area (PHN) | (G-A166, SRT, "Area") | |
| 2D/EPSS Alias: EPSS | (GEU-106-0066, 99GEMS, “E-point Spetal separation in 2D”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) |
| 4DAutoMVQ/A-P_Diameter Alias: MV A-P Diam | (GEU-106-0036, 99GEMS, “MV antero-posterior diameter by 4Dauto MV quantification tool”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (111031, DCM, “Image View”) = (G-0395, SRT, “Apical long axis”) |
| 4DAutoMVQ/PM-AL_Diameter Alias: MV PM-AL Diam | (GEU-106-0038, 99GEMS, “Mitral valve Diameter, medLat to AntPost hinge on commissural view”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (GEU-106-0039, 99GEMS, “MV commissural view”) |

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| <p>4DAutoMVQ/Annulus_Perimeter Alias: MV Annulus Perimeter</p> | <p>(GEU-106-0040, 99GEMS, “4D mitral annulus perimeter”)</p> | <p>(G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (T-35313, SRT, “Mitral Annulus”)</p> |
| <p>4DAutoMVQ/Annulus_Area_3D Alias: MV Annulus Area 3D</p> | <p>(GEU-106-0041, 99GEMS, “4D mitral annulus surface”)</p> | <p>(G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (T-35313, SRT, “Mitral Annulus”)</p> |
| <p>4DAutoMVQ/Tenting_Height Alias: MV Tenting Height</p> | <p>(GEU-106-0042, 99GEMS, “MV tenting height from 4D Aplax”)</p> | <p>(G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (111031, DCM, “Image View”) = (G-0395, SRT, “Apical long axis”)</p> |
| <p>4DAutoMVQ/Mitral-Aortic_Angle Alias: Mitral-Aortic Angle</p> | <p>(GEU-106-0043, 99GEMS, “Mitral-Aortic angle from 4D Aplax”)</p> | <p>(G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement</p> |

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| | | Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (111031, DCM, “Image View”) = (G-0395, SRT, “Apical long axis”) |
| 4DAutoMVQ/Inter_Trigonal_Distance Alias: MV Inter-Trigonal Dist | (GEU-106-0044, 99GEMS, “Distance between mitral trigons”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) |
| 4DAutoMVQ/Annulus_Height Alias: MV Annulus Height | (GEU-106-0045, 99GEMS, “MV annulus height”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) |
| 4DAutoMVQ/Anterior_Leaflet_Length Alias: MV Ant Leaflet Len | (GEU-106-0046, 99GEMS, “Length of anterior MV leaflet from 4D Aplax”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (111031, DCM, “Image View”) = (G-0395, SRT, “Apical long axis”) (G-C0E3, SRT, “Finding Site”) = |

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| | | (T-35321, SRT, “Anterior Leaflet of Mitral Valve”) |
| 4DAutoMVQ/Posterior_Leaflet_Length Alias: MV Post Leaflet Len | (GEU-106-0047, 99GEMS, “Length of posterior MV from 4D Aplax”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0037, 99GEMS, “4D auto MV quantification tool”) (111031, DCM, “Image View”) = (G-0395, SRT, “Apical long axis”) (G-C0E3, SRT, “Finding Site”) = (T-35322, SRT, “Posterior Leaflet of Mitral Valve”) |
| MV A VTI Alias: MV A VTI | (20354-7, LN, “Velocity Time Integral”) | (R-4089A, SRT, “Cardiac Cycle Point”) = (F-32030, SRT, “Atrial Systole”) |
| MV Dec Time Alias: MV DecT | (20217-6, LN, “Deceleration Time”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| MV PHT Alias: MV PHT | (20280-4, LN, “Pressure Half-Time”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| MV Dec Slope Alias: MV Dec Slope | (20216-8, LN, “Deceleration Slope”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |

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| <p>MVA (PHT) Alias: MVA By PHT</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125210, DCM, “Area by Pressure Half-Time”)</p> |
| <p>MVA (VTI) Alias: MVA (VTI)</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125215, DCM, “Continuity Equation by Velocity Time Integral”)</p> |
| <p>MV meanPG Alias: MV meanPG</p> | <p>(20256-4, LN, “Mean Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>MV Vmax Alias: MV Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>MV Vmean Alias: MV Vmean</p> | <p>(20352-1, LN, “Mean Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>MV maxPG Alias: MV maxPG</p> | <p>(20247-3, LN, “Peak Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047,</p> |

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| | | SRT, “Antegrade Flow”) |
| MV VTI Alias: MV VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| MV Time To Peak Alias: MV Time to Peak | (GEU-106-0006, 99GEMS, “Time to Peak”) | |
| MV HR Alias: HR | (8867-4, LN, “Heart rate”) | |
| MV SV Alias: MV SV | (F-32120, SRT, “Stroke Volume”) | (G-C0E3, SRT, «Finding Site») = (T-35300, SRT, «Mitral Valve») |
| MV SI Alias: MV SI | (F-00078, SRT, “Stroke Index”) | (G-C0E3, SRT, «Finding Site») = (T-35300, SRT, «Mitral Valve») |
| MV CO Alias: MV CO | (F-32100, SRT, “Cardiac Output”) | (G-C0E3, SRT, «Finding Site») = (T-35300, SRT, «Mitral Valve») |
| MV CI Alias: MV CI | (F-32110, SRT, “Cardiac Index”) | (G-C0E3, SRT, «Finding Site») = (T-35300, SRT, «Mitral Valve») |
| MV E Env. Ti Alias: MV E Env. Ti | (GEU-106-0076, 99GEMS, “Time duration of the VTI trace on Mitral Valve E-wave”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») |
| MV A Env. Ti Alias: MV A Env. Ti | (GEU-106-0077, 99GEMS, “Time duration of the VTI trace on Mitral Valve A-wave”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») |
| MV Env. Ti Alias: MV Env. Ti | (GEU-106-0078, 99GEMS, “Time | (G-0373, SRT, «Image Mode») = |

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| | duration of the VTI trace on Mitral Valve") | (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow") |
| MR Env. Ti Alias: MR Env. Ti | (GEU-106-0079, 99GEMS, "Time duration of the VTI trace on Mitral Regurgitant flow") | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| MVET Alias: MVET | (GEU-106-0069, 99GEMS, "Mitral Valve Ejection Time") | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») = |
| MV Eann Velocity Alias: MV Eann Velocity | (18037-2, LN, "Mitral Valve E-Wave Peak Velocity") | (G-C0E3, SRT, "Finding Site") = (T-35313, SRT, "Mitral Annulus") |
| MV E/A Ratio Alias: MV E/A Ratio | (18038-0, LN, "Mitral Valve E to A Ratio") | |
| MV Acc Time/MV Dec Time Alias: MV AccT/DecT | (G-0386, SRT, «Mitral Valve AT/DT Ratio») = | |
| MV dp/dt Alias MV dp dt | (59120-6, LN, "Mitral valve antegrade dP/dt [pressure rate] by US") | (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow") |
| MR Vmax Alias: MR Vmax | (11726-7, LN, "Peak Velocity") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |

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| <p>MR meanPG Alias: MR meanPG</p> | <p>(20256-4, LN, “Mean Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>MR Vmean Alias: MR Vmean</p> | <p>(20352-1, LN, “Mean Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>MR maxPG Alias: MR maxPG</p> | <p>(20247-3, LN, “Peak Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>MR VTI Alias: MR VTI</p> | <p>(20354-7, LN, “Velocity Time Integral”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>MCO Alias: MCO</p> | <p>(G-0387, SRT, “Mitral Valve Closure to Opening Time”)</p> | <p>(G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”)</p> |
| <p>PISA/MR/Flow Alias: MR Flow</p> | <p>(34141-2, LN, “Peak Instantaneous Flow Rate”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>PISA/MR/Radius Alias: MR Rad</p> | <p>(GEU-106-0004, 99GEMS, “Flow Radius”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT,</p> |

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| | | <p>“Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>PISA/MR/Velocity Alias: MR Als.Vel</p> | <p>(GEU-106-0005, 99GEMS, “Alias Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>PISA/MR/Vmax Alias: MR Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>PISA/MR/VTI Alias: MR VTI</p> | <p>(20354-7, LN, “Velocity Time Integral”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |

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| <p>PISA/MR/ERO Alias: MR ERO</p> | <p>(G-038E, SRT, "Cardiovascular Orifice Area")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/MR/RV Alias: MR RV</p> | <p>(33878-0, LN, "Volume Flow")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>MV Eprime Velocity Alias: E'</p> | <p>(59133-9, LN, "Peak Tissue Velocity")</p> | <p>(G-C0E3, SRT, "Finding Site") = (T-35313, SRT, "Mitral Annulus") (R-4089A, SRT, "Cardiac Cycle Point") = (R-40B1B, SRT, "Early Diastole")</p> |
| <p>MV E/Eprime Ratio/Calc Alias: E/E'</p> | <p>(59111-5, LN, "E Velocity to Annulus E Velocity Ratio")</p> | |
| <p>MV E/A Ratio/Calc Alias: E/A Ratio</p> | <p>(18038-0, LN, "Mitral Valve E to A Ratio")</p> | |
| <p>MV Medial Eprime Velocity Alias: E' Sept</p> | <p>(59133-9, LN, "Peak Tissue Velocity")</p> | <p>(G-C0E3, SRT, "Finding Site") = (G-0391, SRT,</p> |

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| | | “Medial Mitral Annulus) (R-4089A, SRT, “Cardiac Cycle Point”) = (R-40B1B, SRT, “Early Diastole”) |
| MV Medial E/Eprime Ratio/Calc Alias: E/E’ Sept | (59111-5, LN, “E Velocity to Annulus E Velocity Ratio”) | (G-C0E3, SRT, “Finding Site”) = (G-0391, SRT, “Medial Mitral Annulus) |
| MV Lateral Eprime Velocity Alias: E’ Lat | (59133-9, LN, “Peak Tissue Velocity”) | (G-C0E3, SRT, “Finding Site”) = (G-0392, SRT, “Lateral Mitral Annulus”) (R-4089A, SRT, “Cardiac Cycle Point”) = (R-40B1B, SRT, “Early Diastole”) |
| MV Lateral E/Eprime Ratio/Calc Alias: E/E’ Lat | (59111-5, LN, “E Velocity to Annulus E Velocity Ratio”) | (G-C0E3, SRT, “Finding Site”) = (G-0392, SRT, “Lateral Mitral Annulus”) |
| Medial E’/2 + Lateral E’/2 (calc Avg) Alias: E’ Avg | (GEU-106-0031, 99GEMS, “Average Annulus E Velocity”) | (R-4089A, SRT, “Cardiac Cycle Point”) = (R-40B1B, SRT, “Early Diastole”) |
| E/(Medial E’/2 + Lateral E’/2) Alias: E/E’ Avg | (GEU-106-0032, 99GEMS, “E Velocity to Average Annulus E Velocity”) | |
| MM/MAPSE Alias: MAPSE | (GEU-106-0035, 99GEMS, “Mitral Annular Plane Systolic Excursion (MAPSE)”)) | (G-C0E3, SRT, “Finding Site”) = (T-35313, SRT, “Mitral Annulus”) |

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| MM/MV CE Dist Alias: MV CE Dist | (59122-2, LN, “Valve C-E distance US”) | (G-0373, SRT, “Image Mode”) = (G-0394, SRT, “M mode”) |
| MM/MV D-E Excursion Alias: MV D-E Excursion | (17997-8, LN, “Mitral Valve D-E Excursion”) | (G-0373, SRT, “Image Mode”) = (G-0394, SRT, “M mode”) |
| MM/MV D-E Slope Alias: MV D-E Slope | (59127-1, LN, “Valve D-E slope”) | (G-0373, SRT, “Image Mode”) = (G-0394, SRT, “M mode”) |

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| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/PV Annulus Diam Alias: PV Ann Diam | (G-038F, SRT, “Cardiovascular Orifice Diameter”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/PV Annulus Diam (plax) Alias : PV Annulus Diam (plax) | (G-038F, SRT, "Cardiovascular Orifice Diameter") | (111031, DCM, "Image View") = (SRT, G-0396, "Parasternal long axis") |
| 2D/PV Annulus Diam (sax) Alias : PV Annulus Diam (sax) | (G-038F, SRT, "Cardiovascular Orifice Diameter") | (111031, DCM, "Image View") = (SRT, G-0397, "Parasternal short axis") |
| 2D/PV Area Alias: PV Area | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = |

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| | | (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| MM/Q-to-PV close Alias: Q-to-PV close | (20295-2, LN, “Time from Q wave to Pulmonic Valve Closes”) | (G-0373, SRT, «Image Mode») = (G-0394, SRT, «M mode») |
| PV Vmax Alias: PV Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV Vmax P Alias: PV Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV maxPG Alias: PV maxPG | (20247-3, LN, “Peak Gradient”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV Vmean Alias: PV Vmean | (20352-1, LN, “Mean Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV meanPG Alias: PV meanPG | (20256-4, LN, “Mean Gradient”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV Acc Time Alias: PV AccT | (20168-1, LN, “Acceleration Time”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV VTI Alias: PV VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PV Env.Ti Alias: PV Env.Ti | (GEU-106-0086, “Time duration of the VTI trace on Pulmonic Valve”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| PVA (VTI) Alias: PVA (VTI) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125215, DCM, “Continuity Equation by Velocity Time Integral”) |

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| <p>PVA (Vmax) Alias: PVA (Vmax)</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |
| <p>PVA (Vmax)P Alias: PVA (Vmax)</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”)</p> |
| <p>PV HR Alias: HR</p> | <p>(8867-4, LN, “Heart rate”)</p> | |
| <p>PV SV Alias: PV SV</p> | <p>(F-32120, SRT, “Stroke Volume”)</p> | |
| <p>PV CO Alias: PV CO</p> | <p>(F-32100, SRT, “Cardiac Output”)</p> | |
| <p>PV SI Alias: PV SI</p> | <p>(F-00078, SRT, “Stroke Index”)</p> | |
| <p>PV CI Alias: PV CI</p> | <p>(F-32110, SRT, “Cardiac Index”)</p> | |
| <p>PVO Alias : PVO</p> | <p>(GEU-106-0143, 99GEMS, "Pulmonic Valve Opening Time")</p> | |
| <p>PVC Alias : PVC</p> | <p>(GEU-106-0144, 99GEMS, "Pulmonic Valve Closing Time")</p> | |
| <p>PV dp/dt Alias: PV dp/dt</p> | <p>(59120-6, LN, “Pulmonic valve antegrade dp/dt [pressure rate] by US”)</p> | <p>(G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>PV Acc Slope Alias: PV Acc Slope</p> | <p>(20167-3, LN, “Acceleration Slope”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |

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| PVET Alias: PVET | (18042-2, LN, "Pulmonic Valve Ejection Time") | (G-0373, SRT, "Image Mode") = (R-409E3, SRT, "Doppler Continuous Wave") |
| SD/Q-to-PV close Alias: Q-to-PV close | (20295-2, LN, "Time from Q wave to Pulmonic Valve Closes") | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») |
| PV Acc Time/ET Ratio Alias: PV AccT/ET | (G-0388, SRT, "Ratio of Pulmonic Valve Acceleration Time to Ejection Time") | |
| PV Time To Peak Alias: PV Time to Peak | (GEU-106-0006, 99GEMS, "Time to Peak") | |
| PR HR Alias: PR HR | (8867-4, LN, "Heart rate") | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR PHT Alias: PR PHT | (20280-4, LN, "Pressure Half-Time") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR Dec Time Alias: PR DecT | (20217-6, LN, "Deceleration Time") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR Dec Slope Alias: PR Dec Slope | (20216-8, LN, "Deceleration Slope") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR Vmax Alias: PR Vmax | (11726-7, LN, "Peak Velocity") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR maxPG Alias: PR maxPG | (20247-3, LN, "Peak Gradient") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR Vmean Alias: PR Vmean | (20352-1, LN, "Mean Velocity") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |
| PR meanPG Alias: PR meanPG | (20256-4, LN, "Mean Gradient") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") |

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| <p>PR VTI Alias: PR VTI</p> | <p>(20354-7, LN, “Velocity Time Integral”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>PR Env.Ti Alias: PR Env.Ti</p> | <p>(GEU-106-0087, 99GEMS, “Time duration of the VTI trace on Pulmonic Regurgitant flow”)</p> | <p>(G-0373, SRT, “Image Mode”) = (R-409E4, SRT, “Doppler Pulsed”) (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>PR dp/dt Alias: PR dp/dt</p> | <p>(59120-6, LN, “Pulmonic valve regurgitant dp/dt [pressure rate] by US”)</p> | <p>(G-0373, SRT, “Image Mode”) = (R-409E4, SRT, “Doppler Pulsed”) or (G-0373, SRT, “Image Mode”) = (R-409E3, SRT, “Doppler Continuous Wave”) (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”)</p> |
| <p>Prend Vmax Alias: Prend Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (R-4089A, SRT, “Cardiac Cycle Point”) = (109022, DCM, “End Diastole”)</p> |
| <p>Prend maxPG Alias: Prend PG</p> | <p>(20247-3, LN, “Peak Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (R-4089A, SRT, “Cardiac Cycle Point”) = (109022, DCM, “End Diastole”)</p> |
| <p>PISA/PR/Flow Alias: PR Flow</p> | <p>(34141-2, LN, “Peak Instantaneous Flow Rate”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”)</p> |
| <p>PISA/PR/Radius Alias: PR Rad</p> | <p>(GEU-106-0004, 99GEMS, “Flow Radius”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM,</p> |

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| | | “Proximal Isovelocity Surface Area”) |
| PISA/PR/Velocity Alias: PR Als.Vel | (GEU-106-0005, 99GEMS, “Alias Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/PR/Vmax Alias: PR Vmax | (11726-7, LN, “Peak Velocity”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/PR/VTI Alias: PR VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/PR/ERO Alias: PR ERO | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PISA/PR/RV Alias: PR RV | (33878-0, LN, “Volume Flow”) | (G-C048, SRT, “Direction of Flow”) = (R-42E61, SRT, “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| PRearly Vmax | (11726-7, LN, “Peak Velocity”) | (G-0373, SRT, "Image Mode")= (R-409E4, SRT, "Doppler Pulsed") (R-4089A, SRT, "Cardiac Cycle Point") = (R-40B1B, SRT, "Early Diastole") |

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| | | (G-C0E3, SRT, "Finding Site") = (G-0397, SRT, "Parasternal short axis") (111031, DCM, "Image View") = (R-42E61, SRT, "Regurgitant Flow") |
| PRearly maxPG | (20247-3, LN, "Peak Gradient") | (G-0373, SRT, "Image Mode")= (R-409E4, SRT, "Doppler Pulsed") (R-4089A, SRT, "Cardiac Cycle Point") = (R-40B1B, SRT, "Early Diastole") (G-C0E3, SRT, "Finding Site") = (G-0397, SRT, "Parasternal short axis") (111031, DCM, "Image View") = (R-42E61, SRT, "Regurgitant Flow") |

Section Tricuspid Valve

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/TVA Planimetry Alias: TVA Planimetry | (G-038E, SRT, "Cardiovascular Orifice Area") | (G-C048, SRT, "Direction of Flow") = (R-42047, SRT, "Antegrade Flow") (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode (G-C036, SRT, "Measurement Method") = (125220, DCM, "Planimetry") |
| 2D/TV Annulus Diam Alias: TV Ann Diam | (G-038F, SRT, "Cardiovascular Orifice Diameter") | (G-C0E3, SRT, "Finding Site") = (T-35111, SRT, |

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| | | <p>“Tricuspid Annulus” (G-C048, SRT, “Direction of Flow” = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G- 03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p> |
| <p>2D/TV Annulus Diam AP Alias : TV Annulus Diam AP</p> | <p>(GEU-106-0177, 99GEMS, "Diameter in Anterior to Posterior direction")</p> | <p>(G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus")</p> |
| <p>2D/TV Area Alias: TV Area</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow” = (R-42047, SRT, “Antegrade Flow”) (G-0373, SRT, “Image Mode”) = (G- 03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode</p> |
| <p>2D/TV Area (PHN) Alias : TV Area (PHN)</p> | <p>(G-A166, SRT, "Area")</p> | |
| <p>MM/Q-to-TV open Alias: Q-to-TV open</p> | <p>(20296-0, LN, “Time from Q wave to Tricuspid Valve Opens”)</p> | <p>(G-0373, SRT, «Image Mode») = (G- 0394, SRT, «M mode»)</p> |
| <p>TV Acc Time Alias: TV AccT</p> | <p>(20168-1, LN, “Acceleration Time”)</p> | <p>(G-C048, SRT, “Direction of Flow” = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV Acc Slope Alias: TV Acc Slope</p> | <p>(20167-3, LN, “Acceleration Slope”)</p> | <p>(G-C048, SRT, “Direction of Flow” = (R-42047, SRT, “Antegrade Flow”)</p> |

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| <p>TV E Velocity Alias: TV E Vel</p> | <p>(18031-5, LN, “Tricuspid Valve E Wave Peak Velocity”)</p> | |
| <p>TV A Velocity Alias: TV A Vel</p> | <p>(18030-7, LN, “Tricuspid Valve A Wave Peak Velocity”)</p> | |
| <p>TV Dec Time Alias: TV Dec Time</p> | <p>(20217-6, LN, “Deceleration Time”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV Dec Slope Alias: TV Dec Slope</p> | <p>(20216-8, LN, “Deceleration Slope”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV PHT Alias: TV PHT</p> | <p>(20280-4, LN, “Pressure Half-Time”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TVA Alias: TVA</p> | <p>(G-038E, SRT, “Cardiovascular Orifice Area”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV meanPG Alias: TV meanPG</p> | <p>(20256-4, LN, “Mean Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV Vmax Alias: TV Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV Vmax P Alias: TV Vmax</p> | <p>(11726-7, LN, “Peak Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV Vmean Alias: TV Vmean</p> | <p>(20352-1, LN, “Mean Velocity”)</p> | <p>(G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”)</p> |
| <p>TV maxPG Alias: TV maxPG</p> | <p>(20247-3, LN, “Peak Gradient”)</p> | <p>(G-C048, SRT, “Direction of Flow”)</p> |

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| | | = (R-42047, SRT, “Antegrade Flow”) |
| TV VTI Alias: TV VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| TV Env.Ti Alias: TV Env.Ti | (GEU-106-0088, 99GEMS, “Time duration of the VTI trace on Tricuspid Valve”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) |
| TV Time To Peak Alias: TV Time to Peak | (GEU-106-0006, 99GEMS, “Time to Peak”) | |
| TVA (VTI) Alias: TVA (VTI) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125215, DCM, “Continuity Equation by Velocity Time Integral”) |
| TVA (Vmax) Alias: TVA (Vmax) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”) |
| TVA (Vmax)P Alias: TVA (Vmax) | (G-038E, SRT, “Cardiovascular Orifice Area”) | (G-C048, SRT, “Direction of Flow”) = (R-42047, SRT, “Antegrade Flow”) (G-C036, SRT, “Measurement |

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| | | Method”) = (125214, DCM, “Continuity Equation by Peak Velocity”) |
| TV HR Alias: HR | (8867-4, LN, “Heart rate”) | |
| TV SV Alias: TV SV | (F-32120, SRT, “Stroke Volume”) | |
| TV CO Alias: TV CO | (F32100, SRT, “Cardiac Output”) | |
| TV SI Alias: TV SI | (F-00078, SRT, “Stroke Index”) | |
| TV CI Alias: TV CI | (F-32110, SRT, “Cardiac Index”) | |
| TV Acc Time/TV Dec Time Alias: TV Acc Time/Dec Time | (GEU-106-0074, 99GEMS, “Ratio of Tricuspid Valve acceleration time to deceleration time”) | |
| TV A Dur Alias: TV A Dur | (GEU-106-0075, 99GEMS, “Tricuspid Valve A-Wave duration”) | |
| TV E Prime Lateral Velocity Alias: TV E` Lat Vel | (79924-7, LN, “Tricuspid valve annulus Peak Tissue velocity”) | (G-C0E3, SRT, “Finding Site”) = (GEU-106-0034, GEU, “Lateral Tricuspid Annulus”) |
| TV E/A Ratio Alias: TV E/A Ratio | (18039-8, LN, “Tricuspid Valve E to A Ratio”) | |
| TV E/A Ratio/Calc Alias: TV E/A Ratio/Calc | (18039-8, LN, “Tricuspid Valve E to A Ratio”) | |
| TV Eprime/Aprime Lateral Ratio/Calc Alias : TV E'/A' Lateral | (GEU-106-0175, 99GEMS, "Ratio of RV Peak Tissue Velocity E-Wave to RV Peak Diastolic Tissue | (G-C0E3, SRT, "Finding Site") = (GEU, GEU-106-0034, "Lateral Tricuspid Annulus") |

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| | | = (R-42E61, SRT, "Regurgitant Flow") |
| TR dp/dt Alias: TR dp/dt | (18034-9, LN, "Tricuspid Regurgitation dp/dt derived from Tricuspid Reg Velocity") | |
| TVET Alias: TVET | (GEU-106-0073, 99GEMS, "Tricuspid Valve Ejection Time") | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») = (R-409E3, SRT, "Doppler Continuous Wave") |
| TCO Alias: TCO | (G-0389, SRT, "Tricuspid Valve Closure to Opening Time") | (G-0373, SRT, "Image Mode") = (R-409E3, SRT, "Doppler Continuous Wave") |
| TVO Alias : TVO | (GEU-106-0145, 99GEMS, "Tricuspid Valve Opening Time") | |
| TVC Alias : TVC | (GEU-106-0146, 99GEMS, "Tricuspid Valve Closing Time") | |
| PISA/TR/Flow Alias: TR Flow | (34141-2, LN, "Peak Instantaneous Flow Rate") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area") |
| PISA/TR/Radius Alias: TR Rad | (GEU-106-0004, 99GEMS, "Flow Radius") | (G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area") |

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| <p>PISA/TR/Velocity Alias: TR Als.Vel</p> | <p>(GEU-106-0005, 99GEMS, "Alias Velocity")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/TR/Vmax Alias: TR Vmax</p> | <p>(11726-7, LN, "Peak Velocity")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/TR/VTI Alias: TR VTI</p> | <p>(20354-7, LN, "Velocity Time Integral")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/TR/ERO Alias: TR ERO</p> | <p>(G-038E, SRT, "Cardiovascular Orifice Area")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT, "Regurgitant Flow") (G-C036, SRT, "Measurement Method") = (125216, DCM, "Proximal Isovelocity Surface Area")</p> |
| <p>PISA/TR/RV Alias: TR RV</p> | <p>(33878-0, LN, "Volume Flow")</p> | <p>(G-C048, SRT, "Direction of Flow") = (R-42E61, SRT,</p> |

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| | | “Regurgitant Flow”) (G-C036, SRT, “Measurement Method”) = (125216, DCM, “Proximal Isovelocity Surface Area”) |
| TAPSE | (GEU-106-0030, 99GEMS, “Tricuspid Annular Plane Systolic Excursion (TAPSE)”)) | |
| 4DAutoRVQ/TAPSE Alias: TAPSE | (GEU-106-0052, 99GEMS, “TAPSE from 4D image”) | (G-0373, SRT, “Image Mode”) = (125231, DCM, “3D mode”) (G-C036, SRT, “Measurement Method”) = (GEU-106-0048, 99GEMS, “4D auto RV quantification tool”) |
| 4DAutoTVQ/Annulus_Area_2D Alias : TV Annulus Area 2D | (GEU-106-0135, 99GEMS, "Tricuspid Annulus Area from 4D quantification tool") | (G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") |
| 4DAutoTVQ/Annulus_Perimeter Alias : TV Annulus Perimeter | (GEU-106-0136, 99GEMS, "Tricuspid Annulus Perimeter from 4D quantification tool") | (G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D |

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| | | <p>auto TV quantification tool")</p> |
| <p>4DAutoTVQ/4Ch_Diameter Alias : TV 4Ch ann diam</p> | <p>(GEU-106-0137, 99GEMS, "Tricuspid Annulus Diameter on 4Ch view")</p> | <p>(G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") (111031, DCM, "Image View") = (SRT, G-A19C, "Apical four chamber")</p> |
| <p>4DAutoTVQ/2Ch_Diameter Alias : TV 2Ch ann diam</p> | <p>(GEU-106-0138, 99GEMS, "Tricuspid Annulus Diameter on 2Ch view")</p> | <p>(G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") (111031, DCM, "Image View") = (SRT, G-A19B, "Apical two chamber")</p> |
| <p>4DAutoTVQ/Major_Axis Alias : TV ann max diam</p> | <p>(GEU-106-0139, 99GEMS, "Tricuspid Annulus major axis length in 4D quantification tool")</p> | <p>(G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D</p> |

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| | | auto TV quantification tool") |
| 4DAutoTVQ/Minor_Axis Alias : TV ann min diam | (GEU-106-0140, 99GEMS, "Tricuspid Annulus minor axis length in 4D quantification tool") | (G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") |
| 4DAutoTVQ/Coaptation_Height Alias : TV coapt height | (GEU-106-0141, 99GEMS, "Tricuspid Valve Tenting Height at coaptation point") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") |
| 4DAutoTVQ/Tenting_Volume Alias : TV tenting vol | (GEU-106-0142, 99GEMS, "Tricuspid Valve Tenting Volume") | (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") |
| 4DAutoTVQ/4Ch_Diast_Diameter Alias : TV 4Ch ann diast diam | (GEU-106-0137, 99GEMS, "Tricuspid Annulus Diameter on 4Ch view") | (G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") (111031, DCM, "Image View") = (SRT, G-A19C, "Apical four chamber") (R-4089A, SRT, "Cardiac Cycle |

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| | | Point") = (SRT, F-32010, "Diastole") |
| 4DAutoTVQ/Major_Diast_Axis Alias : TV ann max diast diam | (GEU-106-0139, 99GEMS, "Tricuspid Annulus major axis length in 4D quantification tool") | (G-C0E3, SRT, "Finding Site") = (SRT, T-35111, "Tricuspid Annulus") (G-C036, SRT, "Measurement Method") = (GEU, GEU-106-0134, "4D auto TV quantification tool") (R-4089A, SRT, "Cardiac Cycle Point") = (SRT, F-32010, "Diastole") |

Section Aorta

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| MM/LAAo/Ao Root Diam Alias: Ao Diam | (18015-8, LN, "Aortic Root Diameter") | (G-0373, SRT, «Image Mode») = (G-0394, SRT, «M mode»)) |
| 2D/Ao Root Diam Alias: Ao Diam | (18015-8, LN, "Aortic Root Diameter") | (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode |
| 2D/Ao Asc Diam Alias: Ao asc | (18012-5, LN, "Ascending Aortic Diameter") | (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode |
| 2D/Ao Arch Diam Alias: Ao Arch Diam | (18011-7, LN, "Aortic Arch Diameter") | (G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") or (R-409E2, SRT, "Doppler Color Flow") depending on scan mode |

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| 2D/Ao Desc Diam Alias: Ao Desc Diam | (18013-3, LN, “Descending Aortic Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/Ao Isthmus Alias: Ao Isthmus | (18014-1, LN, “Aortic Isthmus Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| MM/Ao Root Diam Alias: Ao Diam | (18015-8, LN, “Aortic Root Diameter”) | (G-0373, SRT, «Image Mode») = (G-0394, SRT, «M mode») |
| Asc Ao Vmax Alias: Aao Vmax | (11726-7, LN, “Peak Velocity”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Asc Ao maxPG Alias: Aao maxPG | (20247-3, LN, “Peak Gradient”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Asc Ao Vmean Alias: Ao Vmean | (20352-1, LN, “Mean Velocity”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Asc Ao meanPG Alias Ao meanPG | (20256-4, LN, “Mean Gradient”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Asc Ao Env. Ti Alias: Ao Env. Ti | (GEU-106-0132, 99GEMS, “Time duration of the VTI trace”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Asc Ao VTI Alias: Ao VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C0E3, SRT, “Finding Site”) = (T-42100, SRT, “Ascending Aorta”) |
| Dsc Ao Vmax Alias: Dao Vmax | (11726-7, LN, “Peak Velocity”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |
| Dsc Ao maxPG Alias: Dao maxPG | (20247-3, LN, “Peak Gradient”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |
| Dsc Ao Vmean Alias: Dao Vmean | (20352-1, LN, “Mean Velocity”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |
| Dsc Ao meanPG Alias Dao meanPG | (20256-4, LN, “Mean Gradient”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |

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| Dsc Ao Env. Ti Alias: Dao Env. Ti | (GEU-106-0132, 99GEMS, “Time duration of the VTI trace”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |
| Dsc Ao VTI Alias: Dao VTI | (20354-7, LN, “Velocity Time Integral”) | (G-C0E3, SRT, “Finding Site”) = (T-D0765, SRT, “Descending Aorta”) |

Section Pulmonary Artery

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/MPA Alias: MPA | (18020-8, LN, “Main Pulmonary Artery Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/RPA Alias: RPA | (18021-6, LN, “Right Pulmonary Artery Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/LPA Alias: LPA | (18019-0, LN, “Left Pulmonary Artery Diameter”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) or (R-409E2, SRT, “Doppler Color Flow”) depending on scan mode |
| 2D/LAX/RPA area Alias: LAX RPA area | (G-A166, SRT, “Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-44200, SRT, “Right Pulmonary Artery”) (111031, DCM, “Image View”) = (G-0396, SRT, “Parasternal long axis”) |
| 2D/LAX/LPA area Alias: LAX LPA area | (G-A166, SRT, “Area”) | (G-0373, SRT, “Image Mode”) = (G-03A2, SRT, “2D mode”) (G-C0E3, SRT, “Finding Site”) = (T-44400, SRT, “Left Pulmonary Artery”) (111031, DCM, “Image View”) = (G-0396, SRT, “Parasternal long axis”) |

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| <p>2D/SAX/RPA area Alias: SAX RPA area</p> | <p>(G-A166, SRT, "Area")</p> | <p>(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") (G-C0E3, SRT, "Finding Site") = (T-44200, SRT, "Right Pulmonary Artery") (111031, DCM, "Image View") = (G-0398, SRT, "Parasternal short axis at the aortic valve level")</p> |
| <p>2D/SAX/LPA area Alias: SAX LPA area</p> | <p>(G-A166, SRT, "Area")</p> | <p>(G-0373, SRT, "Image Mode") = (G-03A2, SRT, "2D mode") (G-C0E3, SRT, "Finding Site") = (T-44400, SRT, "Left Pulmonary Artery") (111031, DCM, "Image View") = (G-0398, SRT, "Parasternal short axis at the aortic valve level")</p> |
| <p>2D/LAX/Trans AoD diastole Alias: LAX Trans AoD diastole</p> | | <p>(R-4089A, SRT, "Cardiac Cycle Point") = (F-32011, SRT, "End Diastole") (111031, DCM, "Image View") = (G-0395, SRT, "Apical long axis")</p> |
| <p>2D/LAX/Trans AoD systole Alias: LAX Trans AoD systole</p> | | <p>(R-4089A, SRT, "Cardiac Cycle Point") = (109070, DCM, "End Systole") (111031, DCM, "Image View") = (G-0395, SRT, "Apical long axis")</p> |
| <p>2D/SAX/Trans AoD diastole Alias: SAX Trans AoD diastole</p> | | <p>(R-4089A, SRT, "Cardiac Cycle Point") = (F-32011, SRT, "End Diastole") (111031, DCM, "Image View") = (G-0398, SRT, "Parasternal short axis at the aortic valve level")</p> |
| <p>2D/SAX/Trans AoD systole Alias: SAX Trans AoD systole</p> | | <p>(R-4089A, SRT, "Cardiac Cycle Point") = (109070, DCM, "End Systole") (111031, DCM, "Image View") = (G-0398, SRT, "Parasternal short axis at the aortic valve level")</p> |
| <p>RPA Vmax Alias: RPA Vmax</p> | <p>(11726-7, LN, "Peak Velocity")</p> | <p>(G-C0E3, SRT, "Finding Site") = (T-44200, SRT, "Right Pulmonary Artery")</p> |

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| RPA maxPG Alias: RPA maxPG | (20247-3, LN, “Peak Gradient”) | (G-C0E3, SRT, “Finding Site”) = (T-44200, SRT, “Right Pulmonary Artery”) |
| LPA Vmax Alias: LPA Vmax | (GEU-106-0014, 99GEMS, “Left Pulmonary Artery Peak Velocity”) | |
| LPA maxPG Alias: LPA maxPG | (GEU-106-0015, 99GEMS, “Left Pulmonary Artery Peak Gradient”) | |
| MPA Vmax Alias: MPA Vmax | (G-038A, SRT, “Main Pulmonary Artery Peak Velocity”) | |
| PAPmean | (8414-5, LN, “Pulmonary Artery Intravascular Mean Pressure”) | (G-0373, SRT, "Image Mode")= (R-409E4, SRT, "Doppler Pulsed") (R-4089A, SRT, "Cardiac Cycle Point") = (R-40B1B, SRT, "Early Diastole") (G-C0E3, SRT, "Finding Site") = (G-0397, SRT, "Parasternal short axis") |

Section Pulmonary Venous Structure

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
|--|---|---|
| P_Vein S Alias: P Vein S | (29450-4, LN, “Pulmonary Vein Systolic Peak Velocity”) | |
| P_Vein D Alias: P Vein D | (29451-2, LN, “Pulmonary Vein Diastolic Peak Velocity”) | |

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| P_Vein A Alias: P Vein A | (29453-8, LN, “Pulmonary Vein Atrial Contraction Reversal Peak Velocity”) | |
| P_Vein A Dur Alias: P Vein A Dur | (G-038B, SRT, “Pulmonary Vein A-Wave Duration”) | |
| P_Vein S/D Ratio Alias: P Vein S/D Ratio | (29452-0, LN, “Pulmonary Vein Systolic to Diastolic Ratio”) | |
| P_Vein S VTI Alias: P Vein S VTI | (G-038C, SRT, “Pulmonary Vein S-Wave Velocity Time Integral”) | |
| P_Vein D VTI Alias: P Vein D VTI | (G-038D, SRT, “Pulmonary Vein D-Wave Velocity Time Integral”) | |
| P_Vein S Env.Ti Alias: P Vein S Env.Ti | (GEU-106-0083, 99GEMS, “Time duration of the VTI trace on Pulmonary Vein S-Wave”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») |
| P_Vein D Env.Ti Alias: P Vein D Env.Ti | (GEU-106-0084, 99GEMS, “Time duration of the VTI trace on Pulmonary Vein D-Wave”) | (G-0373, SRT, «Image Mode») = (R-409E4, SRT, «Doppler Pulsed») |
| PA Vmax Alias: PA Vmax | (11726-7, LN, “Peak Velocity”) | |
| PA max PG Alias: PA max PG | (20247-3, LN, “Peak Gradient”) | |

Section Vena Cava

| GEU Parameter ID (and corresponding alias) | Base Measurement Concept Name | Concept or Acquisition Context Modifier |
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| 2D/IVC Diam Ins Alias: IVC Diam Ins | (18006-7, LN, “Inferior Vena Cava Diameter”) | (R-40899, SRT, “Respiratory Cycle Point”) = (F-20010, SRT, “During Inspiration”) |
| 2D/IVC Diam Exp Alias: IVC Diam Exp | (18006-7, LN, “Inferior Vena Cava Diameter”) | (R-40899, SRT, “Respiratory Cycle Point”) = (F-20020, SRT, “During Expiration”) |