**MESA Exam 6 Ancillary Data Set Variable Guide**

AS349: Atrial Hemodynamics Subclinical (Silent) Cerebral Infarction

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| **Data Set name :** | MESAe6as349\_AtrHemoSCI\_20250115 |
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| **Order** | **Variable name** | **Variable description** | **Value Labels** |
| --- | --- | --- | --- |
| 1 | idno | MESA participant ID |  |
| 2 | sci6 | Subclinical cerebral infarction | 0: No1: Yes |
| 3 | scistdydt6tt | Days from baseline exam to SCI study |  |
| 4 | scinum6 | Number of SCI lesion found |  |
| 5 | sciside6 | Side of SCI | 1: Right2: Left |
| 6 | scileslocat6 | Brain region of lesion | 1: Cortical2: Subcortical3: Mixed  |
| 7 | scilesside6 | Side of lesion |  |
| 8 | scilesbrregm6 | Brain region of lesion, modified | 1: Frontal lobe2: Corona radiata3: Centrum semiovale4: Periatrial white matter5: Periventricular white matter6: Basal ganglia7: External capsule8: Thalamus9: Temporal lobe10: Parietal lobe11: Pons12: Caudate13: Putamen14: Cerebellum |
| 9 | scilesbrregor6 | Brain region of lesion, original |  |
| 10 | scisize6 | SCI size |  |
| 11 | scitempres6 | Cardiac MRI temporal resolution |  |
| 12 | sci\_la\_volume6 | LA volume from 4D-flow, in mL |  |
| 13 | sci\_la\_peakvelo6 | LA peak velocity from 4D-flow, in m/s |  |
| 14 | sci\_la\_meanvelo6 | LA mean velocity from 4D-flow, in m/s |  |
| 15 | sci\_la\_stasis6 | LA stasis from 4D-flow, in % |  |
| 16 | sci\_laa\_volume6 | LAA volume from 4D-flow, in mL |  |
| 17 | sci\_laa\_peakvelo6 | LAA peak velocity from 4D-flow, in m/s |  |
| 18 | sci\_laa\_meanvelo6 | LAA mean velocity from 4D-flow, in m/s |  |
| 19 | sci\_laa\_stasis6 | LAA stasis from 4D-flow, in % |  |
| 20 | sci\_la\_peakvelo\_systole6 | LA peak velocity from 4D-flow, systole |  |
| 21 | sci\_la\_peakvelo\_diastole6 | LA peak velocity from 4D-flow, diastole |  |
| 22 | sci\_la\_meanvelo\_systole6 | LA mean velocity from 4D-flow, systole |  |
| 23 | sci\_la\_meanvelo\_diastole6 | LA mean velocity from 4D-flow, diastole |  |
| 24 | sci\_la\_stasis\_systole6 | LA stasis from 4D-flow, systole |  |
| 25 | sci\_la\_stasis\_diastole6 | LA stasis from 4D-flow, diastole |  |
| 26 | sci\_laa\_peakvelo\_systole6 | LAA peak velocity from 4D-flow, systole |  |
| 27 | sci\_laa\_peakvelo\_diastole6 | LAA peak velocity from 4D-flow, diastole |  |
| 28 | sci\_laa\_meanvelo\_systole6 | LAA mean velocity from 4D-flow, systole |  |
| 29 | sci\_laa\_meanvelo\_diastole6 | LAA mean velocity from 4D-flow, diastole |  |
| 30 | sci\_laa\_stasis\_systole6 | LAA stasis from 4D-flow, systole |  |
| 31 | sci\_laa\_stasis\_diastole6 | LAA stasis from 4D-flow, diastole |  |
| 32 | sci\_vol\_preA\_3d6 | LAV before atrial contraction from 3D-based analysis |  |
| 33 | sci\_TP\_preA\_3d6 | Time point of LAV before atrial contraction from 3D-based analysis |  |
| 34 | sci\_tp\_la\_max\_3d6 | Time point of maximum LAV before atrial contraction from 3D-based analysis |  |
| 35 | sci\_tp\_la\_min\_3d6 | Time point of minimum LAV before atrial contraction from 3D-based analysis |  |
| 36 | sci\_vol\_max\_3d6 | LAV maximum from 3D-based analysis |  |
| 37 | sci\_vol\_min\_3d6 | LAV minimum from 3D-based analysis |  |
| 38 | sci\_laef\_total\_3d6 | LA emptying fraction total from 3D-based analysis |  |
| 39 | sci\_laef\_active\_3d6 | LA emptying fraction active from 3D-based analysis |  |
| 40 | sci\_laef\_passive\_3d6 | LA emptying fraction passive from 3D-based analysis |  |
| 41 | sci\_lav\_max\_3d6 | Maximum LAV from 3D-based CINE, indexed by BSA |  |
| 42 | sci\_lav\_min\_3d6 | Minimum LAV from 3D-based CINE, indexed by BSA |  |
| 43 | sci\_TP\_prea\_biplane6 | Time point of LAV before atrial contraction from biplane analysis |  |
| 44 | sci\_lav\_prea\_biplane6 | LAV before atrial contraction from biplane analysis |  |
| 45 | sci\_laef\_total\_biplane6 | LA emptying fraction total from biplane analysis |  |
| 46 | sci\_laef\_active\_biplane6 | LA emptying fraction active from biplane analysis |  |
| 47 | sci\_laef\_passive\_biplane6 | LA emptying fraction passive from biplane analysis |  |
| 48 | sci\_lav\_max\_biplane6 | LAV maximum from biplane analysis |  |
| 49 | sci\_lav\_min\_biplane6 | LAV minimum from biplane analysis |  |