

**Cohort, Exam 4****ECG data**

Composite, with adjudications

<i>ECGMD01</i>		<i>ECG tech code</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11594	Present	Text suppressed
35		Missing

<i>ECGMD04</i>		<i>Filter setting - not used - blank</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11629		Missing

<i>ECGMD05</i>		<i>Cart code</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2	00	
2836	01	
3248	05	
1	06	
3184	07	
2325	08	
33		Missing

<i>ECGMD06</i>		<i>Recording date</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11596	Range	02/01/1996 - 01/30/1999
33		Missing

<i>ECGMD07</i>		<i>Recording time</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11596	Range	4:47 - 14:22
33		Missing

<i>ECGMD07H</i>		<i>Recording time - hour</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11596	Range	4 - 14 ( median=8 mean=8.5 std=1.3 )
33		Missing

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<i>ECGMD07M</i>		<i>Recording time - minute</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11596	Range	0 - 59 ( median=30 mean=30.3 std=17.7 )
33		Missing

<i>ECGMD08</i>		<i>Quality Grade (Noise/mm, Overall drift/mm, Beat to beat drift/mm)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8522	1	
2194	2	
538	3	
148	4	
194	5	
33		Missing

<i>ECGMD09</i>		<i>Minnesota Code L1 (Q-Q.S. Pattern I, aVL, V6)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11482	0	No Minnesota Code Equivalent
3	11	Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead I or V6
3	13	Q duration = 0.04 sec, plus R amplitude = 3 mm in lead a VL
2	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 and < 0.03 sec in lead I or V6
3	22	Q duration = 0.03 sec and < 0.04 sec lead I or V6
2	28	Initial R amplitude decreasing to 2 mm or less in every beat (and absence of codes 3-2, 7-1-1, 7-2-1, or 7-3 between V5 and V6. (All beats in lead V5 must have an initial R > 2 mm.)
31	31	Q/R amplitude ratio = 1/5 and < 1/3, plus Q duration = 0.02 sec and < 0.03 sec in lead I or V6.
19	33	Q duration = 0.03 sec and < 0.04 sec, plus R amplitude = 3 mm in lead aVL.
84		Missing

<i>ECGMD10</i>		<i>Minnesota Code F1 (Q-Q.S. Pattern II, III, aVF)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 36 ( median=0 mean=0.9 std=5.0 )
76		Missing

<i>ECGMD11</i>		<i>Minnesota Code V1 (Q-Q.S. Pattern V1-V5)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11554	Range	0 - 32 ( median=0 mean=0.3 std=2.9 )
75		Missing

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<i>ECGMD12</i>		<i>Minnesota Code L4 (ST Junction &amp; Segment Depression I, aVL, V6)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11242	0	No Minnesota Code Equivalent
94	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads I, aVL, or V6.
192	3	No STJ depression as much as 0.5 mm but ST segment downward sloping and segment or T-wave nadir = 0.5 mm below P-R baseline, in any of leads I, aVL, or V6.
2	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped, in any of leads I, aVL, or V6.
1	11	
14	12	STJ depression = 1.0 mm but < 2.0 mm, and ST segment horizontal or downward sloping in any of leads I, aVL, or V6.
84		Missing

<i>ECGMD13</i>		<i>Minnesota Code F4 (ST Junction &amp; Segment Depression II, III, aVF)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11486	0	No Minnesota Code Equivalent
22	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads I, aVL, or V6
42	3	No STJ depression as much as 0.5 mm but ST segment downward sloping and segment or T-wave nadir = 0.5 mm below P-R baseline, in any of leads I, aVL, or V6
1	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped, in any of leads I, aVL, or V6
2	12	STJ depression = 1.0 mm but < 2.0 mm, and ST segment horizontal or downward sloping in any of leads I, aVL, or V6
76		Missing

<i>ECGMD14</i>		<i>Minnesota Code V4 (ST Junction &amp; Segment Depression V1-V5)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11339	0	No Minnesota Code Equivalent
80	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads V1 - V5
89	3	No STJ depression as much as 0.5 mm, but ST segment downward sloping and segment or T-wave nadir = 0.5 mm below P-R baseline in any of leads V2 - V5
5	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped in any of leads V1 - V5
4	11	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1-V5
34	12	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1 - V5
78		Missing

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<i>ECGMD15</i>		<i>Minnesota Code L5 (T Wave I, aVL, V6)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10169	0	No Minnesota Code Equivalent
12	1	T amplitude negative 5.0 mm or more in either of leads I, V6, or in lead aVL when R amplitude is = 5.0 mm
356	2	T amplitude negative or diphasic (positive-negative or negative-positive type) with negative phase at least 1.0 mm but not as deep as 5.0 mm in lead I or V6, or in lead aVL when R amplitude is = 5.0 mm
679	3	T amplitude zero (flat), or negative, or diphasic (negative-positive type only) with less than 1.0 mm negative phase in lead I or V6, or in lead aVL when R amplitude is = 5.0 mm
331	4	T amplitude positive and T/R amplitude ratio < 1/20 in any of leads I, aVL, V6; R wave amplitude must be = 10.0 mm.
82		Missing

<i>ECGMD16</i>		<i>Minnesota Code F5 (T Wave II, III, aVF)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11216	0	No Minnesota Code Equivalent
2	1	
82	2	T amplitude negative or diphasic with negative phase (negative-positive or positive-negative type) at least 1.0 mm but not as deep as 5.0 mm in lead II, or in lead aVF when QRS is mainly upright
193	3	T amplitude zero (flat), or negative, or diphasic (negative-positive type only) with less than 1.0 mm negative phase in lead II; not Coded in lead aVF
60	4	T amplitude positive and T/R amplitude ratio < 1/20 in lead II; R wave amplitude must be = 10.0 mm.
76		Missing

<i>ECGMD17</i>		<i>Minnesota Code V5 (T Wave V1-V5)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10496	0	No Minnesota Code Equivalent
43	1	T amplitude negative 5.0 mm or more in any of leads V2 - V5
405	2	T amplitude negative (flat), or diphasic (negative-positive or positive-negative type) with negative phase at least 1.0 mm but not as deep as 5.0 mm, in any of leads V2 - V5
286	3	T amplitude zero (flat), or negative, or diphasic (negative-positive type only) with less than 1.0 mm negative phase, in any of leads V3 - V5
323	4	T amplitude positive and T/R amplitude ratio < 1/20 in any of leads V3, V4, V5; R wave amplitude must be = 10.0 mm
76		Missing

<i>ECGMD18</i>		<i>Minnesota Code L92 (ST Segment Elevation Anterolateral Site (Leads I, aVL, V6))</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11545	0	No Minnesota Code Equivalent
84		Missing

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<i>ECGMD19</i>		<i>Minnesota Code F92 (ST Segment Elevation Posterior (Inferior) Site (Leads II, III, aVF))</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11548	0	No Minnesota Code Equivalent
5	2	ST segment elevation = 1.0 mm in any of leads II, III, aVF
76		Missing

<i>ECGMD20</i>		<i>Minnesota Code V92</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11456	0	No Minnesota Code Equivalent
94	2	ST segment elevation = 1.0 mm in lead V5 or ST segment elevation = 2.0 mm in any of leads V1 - V4
79		Missing

<i>ECGMD21</i>		<i>Minnesota Code C2 (QRS Axis Deviation Codes)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9328	0	No Minnesota Code Equivalent
13	3	Right (optional code when 2-2 is not present). QRS axis from +90° through +119° in leads I, II, III. (The algebraic sum of major positive and major negative QRS waves must be zero or negative in I and positive in II and III.)
1594	11	
362	12	
230	21	Left. QRS axis from -30° through -90° in leads I, II, III. (The algebraic sum of major positive and major negative QRS waves must be zero or positive in I, negative in III, and zero or negative in II.)
19	22	Right. QRS axis from +120° through -150° in leads I, II, III. (The algebraic sum of major positive and major negative QRS waves must be negative in I, and zero or positive in III, and in I must be one-half or more of that in III.)
83		Missing

<i>ECGMD22</i>		<i>Minnesota Code C3 (High Amplitude R Wave Codes)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10513	0	No Minnesota Code Equivalent
9	2	Right: R amplitude = 5.0 mm and R amplitude = S amplitude in the majority of beats in lead V1, when S amplitude is > R amplitude somewhere to the left on the chest of V1
257	12	
20	13	
377	14	
102	31	Left: R amplitude > 26 mm in either V5 or V6, or R amplitude > 20.0 mm in any of leads I, II, III, aVF, or R amplitude > 12.0 mm in lead aVL. (All criteria measured only on second to last complete normal beat.)
264	32	Right: R amplitude = 5.0 mm and R amplitude = S amplitude in the majority of beats in lead V1, when S amplitude is > R amplitude somewhere to the left on the chest of V1 (codes 7-3 and 3-2, if criteria for both are present).
87		Missing

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<i>ECGMD23</i>		<i>Minnesota Code C6 (A-V Conduction Defect Codes)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10942	0	No Minnesota Code Equivalent
368	3	P-R (P-Q) interval = 0.22 sec in the majority of beats in any of leads I, II, III, aVL, aVF
1	4	
230	5	Short P-R interval. P-R interval < 0.12 sec in all beats of any two of leads I, II, III, aVL, aVF
36	8	Artificial pacemaker.
2	23	
3	41	Wolff-Parkinson-White Pattern (WPW), persistent. Sinus P-wave. P-R interval < 0.12 sec, plus QRS duration = 0.12 sec, plus R peak duration = 0.06 sec, coexisting in the same beat and present in the majority of beats in any of leads I, II, aVL, V4, V5, V6.
47		Missing

<i>ECGMD24</i>		<i>Minnesota Code C7 (Ventricular Conduction Defect)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10149	0	No Minnesota Code Equivalent
103	1	
223	2	
214	3	Incomplete right bundle branch block. QRS duration < 0.12 sec in each of leads I, II, III, aVL, aVF, and R' > R in either of leads V1, V2
49	4	Intraventricular block. QRS duration = 0.12 sec in a majority of beats in any of leads I, II, III, aVL, aVF. (7-4 suppresses all 2, 3, 4, 5, 9-2, 9-4, 9-5 codes.)
251	5	R-R' pattern in either of leads V1, V2 with R' amplitude = R.
456	6	Incomplete left bundle branch block. (Do not code in the presence of any codable Q- or QS-wave.) QRS duration = 0.10 sec and < 0.12 in the majority of beats of each of leads I, aVL, and V5 or V6.
73	11	Complete left bundle branch block (LBBB). (Do not code in presence of 6-1, 6-4-1, 6-8, 8-2-1 or 8-2-2.) QRS duration = 0.12 sec in a majority of beats in any of leads I, II, III, aVL, aVF, plus R peak duration ! 0.06 sec in a majority of beats (of the sam
30	21	Complete right bundle branch block (RBBB). (Do not code in the presence of 6-1, 6-4-1, 6-8, 8-2-1 or 8-2-2.) QRS duration = 0.12 sec in a majority of beats in any of leads I, II, III, aVL, aVF, plus: R' > R in V1 or V2; or QRS mainly upright, with R peak
81		Missing

<i>ECGMD25</i>		<i>Minnesota Code C91 (Low QRS Amplitude)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11363	0	No Minnesota Code Equivalent
186	1	Low QRS amplitude. QRS peak-to-peak amplitude < 5 mm in all beats in each of leads I, II, III, or < 10 mm in all beats in each of leads V1 - V6. (Check calibration before coding.)
80		Missing

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<i>ECGMD26</i>		<i>Minnesota Code C93 (P-Wave Amplitude &gt; 2.5 MM In Any of Leads II, III, aVF in Majority of Beats)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11530	0	No Minnesota Code Equivalent
20	3	P-wave amplitude = 2.5 mm in any of leads II, III, aVF, in a majority of beats.
79		Missing

<i>ECGMD27</i>		<i>Minnesota Code C94 (QRS Transition Zone)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
4236	0	No Minnesota Code Equivalent
6643	1	QRS transition zone at V3 or to the right of V3 on the chest. (Do not code in the presence of 6-4-1, 7-1-1, 7-2-1 or 7-4.)
674	2	QRS transition zone at V4 or to the left of V4 on the chest. (Do not code in the presence of 6-4-1, 7-1-1, 7-2-1 or 7-4.)
76		Missing

<i>ECGMD28</i>		<i>Minnesota Code C95 (T-Wave Amplitude)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11470	0	No Minnesota Code Equivalent
72	5	T-wave amplitude > 12 mm in any of leads I, II, III, aVL, aVF, V1, V2, V3, V4, V5, V6. (Do not code in the presence of 6-4-1, 7-1-1, 7-2-1 or 7-4.)
87		Missing

<i>ECGMD29</i>		<i>Minnesota code E7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
7616	0	No Minnesota Code Equivalent
3937	7	QRS Duration > 90 MS OR Intrinsic Deflection V5 OR V6 > 50 MS
76		Missing

<i>ECGMD30</i>		<i>CIIs value</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11541	Range	-20.99 - 51.83 ( median=3.64 mean=5.017 std=10.194 )
88		Missing

<i>ECGMD31</i>		<i>Heart rate</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	34 - 132 ( median=62 mean=62.9 std=10.2 )
76		Missing

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<i>ECGMD32</i>		<i>Q Or QS Amplitude:I</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 553 ( median=30 mean=39.2 std=46.0 )
76		Missing

<i>ECGMD33</i>		<i>Q Or QS Amplitude:III</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 2490 ( median=0 mean=92.8 std=185.8 )
76		Missing

<i>ECGMD34</i>		<i>Q Or QS Amplitude:V5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 903 ( median=21 mean=36.5 std=53.1 )
76		Missing

<i>ECGMD35</i>		<i>Q Or QS Amplitude:V6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11552	Range	0 - 662 ( median=34 mean=44.7 std=50.2 )
77		Missing

<i>ECGMD36</i>		<i>R Amplitude:I</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 2697 ( median=817 mean=845.9 std=334.6 )
76		Missing

<i>ECGMD37</i>		<i>R Amplitude:III</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 1870 ( median=141 mean=228.1 std=236.9 )
76		Missing

<i>ECGMD38</i>		<i>R Amplitude:aVL</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11546	Range	0 - 2966 ( median=533 mean=569.5 std=343.5 )
83		Missing



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<i>ECGMD39</i>		<i>R Amplitude:V2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11551	Range	0 - 3282 ( median=431 mean=498.0 std=335.3 )
78		Missing

<i>ECGMD40</i>		<i>R Amplitude:V5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 4823 ( median=1344 mean=1400.8 std=509.5 )
76		Missing

<i>ECGMD41</i>		<i>R Amplitude:V6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11552	Range	0 - 3560 ( median=1046 mean=1095.1 std=402.8 )
77		Missing

<i>ECGMD42</i>		<i>S Amplitude:I</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	-1299 - 0 ( median=0 mean=-64.3 std=95.2 )
76		Missing

<i>ECGMD43</i>		<i>S Amplitude:III</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	-3809 - 0 ( median=-183 mean=-321.2 std=385.1 )
76		Missing

<i>ECGMD44</i>		<i>S Amplitude:V1</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	-4569 - 0 ( median=-726 mean=-754.2 std=463.0 )
76		Missing

<i>ECGMD45</i>		<i>S Amplitude:V2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11551	Range	-5176 - 0 ( median=-994 mean=-1052.5 std=563.4 )
78		Missing

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<i>ECGMD46</i>		<i>S Amplitude:V5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	-1651 - 0 ( median=-168 mean=-212.6 std=207.3 )
76		Missing

<i>ECGMD47</i>		<i>S Amplitude:V6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11552	Range	-1318 - 0 ( median=0 mean=-68.4 std=110.3 )
77		Missing

<i>ECGMD48</i>		<i>T negative Amplitude:aVL</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11546	Range	-546 - 0 ( median=0 mean=-11.6 std=40.3 )
83		Missing

<i>ECGMD49</i>		<i>T negative Amplitude:aVF</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	-398 - 0 ( median=0 mean=-4.0 std=20.7 )
76		Missing

<i>ECGMD50</i>		<i>T negative Amplitude:V6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11552	Range	-1054 - 0 ( median=0 mean=-9.2 std=46.7 )
77		Missing

<i>ECGMD51</i>		<i>T positive Amplitude:aVR</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 521 ( median=0 mean=2.8 std=21.4 )
76		Missing

<i>ECGMD52</i>		<i>T positive Amplitude:V1</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	0 - 1143 ( median=23 mean=97.4 std=129.3 )
76		Missing

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<i>ECGMD53</i>		<i>T positive Amplitude:V6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11552	Range	0 - 1099 ( median=209 mean=214.9 std=128.6 )
77		Missing

<i>ECGMD54</i>		<i>QRS Interval</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11553	Range	57 - 453 ( median=95 mean=97.5 std=15.2 )
76		Missing

<i>ECGMD55</i>		<i>OE Measurement</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11595	Range	7 - 950 ( median=130 mean=131.1 std=25.7 )
34		Missing

<i>ECGMD56</i>		<i>OV6 Measurement</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11595	Range	2 - 310 ( median=170 mean=172.1 std=25.2 )
34		Missing

<i>ECGMD57</i>		<i>V3 ECG Sent To Minn</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8606	0	
2990	1	
33		Missing

<i>ECGMD58</i>		<i>V4 ECG abnormal sent</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9547	0	
2049	1	
33		Missing

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<i>ECGMD60</i>		<i>V4 - not significant - random sample</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10655	0	
941	1	
33		Missing

<i>ECGMDCY</i>		<i>Contact year</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11629	10	

<i>ECGMDFLG</i>		<i>ECGMD record present</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11629	1	

<i>ID</i>		<i>ARIC participant ID</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11629	Present	Text suppressed