

CHD Cohort Surveillance**ECG****Data set name: C19CEMA1**

ECG

<i>CEAD01</i>		<i>ECG Technician - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
135	0	
9899	999	
5		Missing

<i>CEAD02</i>		<i>ECG Date - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10036	Range	04/01/1987 - 12/26/2019
3		Missing

<i>CEAD03</i>		<i>ECG Coder - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10037	Present	Text suppressed
2		Missing

<i>CEAD04</i>		<i>Date Coded - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10037	Range	02/04/1991 - 11/11/2020
2		Missing

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CEAD05		Q-QS Pattern (1xx) I aVL V6 - 1st ECG
N	Value	Description
39	11	Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead I or V6
8	12	Q duration = 0.04 sec in lead I or V6
26	13	Q duration = 0.04 sec, plus R amplitude = 3 mm in lead a VL
20	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 and < 0.03 sec in lead I or V6
18	22	Q duration = 0.03 sec and < 0.04 sec lead I or V6
16	23	QS pattern in lead I. Do not code in the presence of 7-1-1
7	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.)
32	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.
63	33	Q duration = 0.03 sec and < 0.04 sec, plus R amplitude = 3 mm in lead aVL.
9810		Missing

CEAD06		Q-QS Pattern (1xx) II III aVF - 1st ECG
N	Value	Description
58	11	Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead II
4	12	Q duration = 0.04 sec in lead II
39	14	Q duration = 0.05 sec in lead III, plus a Q-wave amplitude = 1.0 mm in the majority of beats in lead aVF
10	15	Q duration = 0.05 sec in lead aVF
62	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 in lead II
17	22	Q duration = 0.03 sec and <0.04 sec in lead II
94	23	QS pattern in lead II. Do not codee in the presence of 7-1-1.
65	24	Q duration = 0.04 sec and <0.05 sec in lead III, plus a Q-wave = 1.0 mm amplitude in the majority of beats in aVF
7	25	Q duration = 0.04 sec and <0.05 sec in lead aVF
62	26	Q duration = 5.0 mm in leads III or aVF
36	31	Q/R amplitude ratio = 1/5 and <1/3, plus Q duration = 0.02 sec and < 0.03 in lead II
117	34	Q duration = 0.03 sec and <0.04 sec in lead III, plus a Q-wave = 1.0 mm amplitude in the majority of beats in aVF
16	35	Q duration = 0.03 sec and <0.04 sec in lead aVF
122	36	QS pattern in lead III and aVF. Do not codee in the presence of 7-1-1.
9330		Missing

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CEAD07		Q-QS Pattern (1xx) V1-V5 - 1st ECG
N	Value	Description
124	11	Q/R amplitude ratio = 1/3 plus Q duration = 0.03 sec in any of leads V2-V5
45	12	Q duration = 0.04 sec in any of leads V1-V5
224	16	QS pattern when initial R-wave is present in adj lead to the right on the chest, in any leads V2-V6
51	17	QS pattern in all of leads V1-V4 or V1-V5
33	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 sec, in any of leads V2-V5
12	22	Q duration = 0.03 sec and < 0.04 sec in any of leads V2-V5
98	27	QS pattern in all of leads V1-V3 (do not code in the presence of 7-1-1)
145	28	Initial R amplitude decreasing to 2.0mm or less in every beat (and absence of codes 3-2, 7-1-1, 7-2-1, or 7-3) between any of leads V2 and V3, V3 and V4, or V4 and V5 (all beats in the lead immediately to the right on the chest must have an initial R > 2)
14	31	Q/R amplitude ratio = 1/5 and < 1/3 plus Q duration = 0.02 and < 0.03 sec in any of leads V2-V5
338	32	QS pattern in lead V1 and V2. (Do not code in the presence of 3-1 or 7-1-1.)
8955		Missing

CEAD08		ST Segment Depression (4xx) I aVL V6 - 1st ECG
N	Value	Description
679	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
525	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
34	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped, in any of leads I, aVL, or V6
77	11	STJ depression = 2.0 mm and ST segment horizontal or downward sloping in any of leads I, aVL, or V6
454	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
8270		Missing

CEAD09		ST Segment Depression (4xx) II III aVF - 1st ECG
N	Value	Description
243	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in lead II or aVF
175	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 lead II.
23	4	STJ depression = 1.0 mm and ST segment upward sloping, or U-shaped, in lead II
16	11	STJ depression = 2.0 mm and ST segment horizontal or downward sloping in lead II or aVF
144	12	STJ depression = 1.0 mm but < 2.0 mm and ST segment horizontal or downward sloping in lead II or aVF
1	30	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 lead II.
9437		Missing

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CEAD10		ST Segment Depression (4xx) V1-V5 - 1st ECG
N	Value	Description
507	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads V1-V5
184	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
79	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped in any of leads V1-V5
149	11	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1-V5
431	12	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1 - V5
8689		Missing

CEAD100		Condition 11- Lead 2, EV6
N	Value	Description
2	3	
10037		Missing

CEAD101		Condition 11- Lead 3, EV6
N	Value	Description
1	1	
2	2	
21	3	
10015		Missing

CEAD102		Condition 12- Lead 1, ED3,6,EV3
N	Value	Description
462	1	
135	3	
25	4	
9417		Missing

CEAD103		Condition 12- Lead 2, ED3,6,EV3
N	Value	Description
309	1	
40	3	
36	4	
9654		Missing

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<i>CEAD104</i>		<i>Condition 12- Lead 3, ED3,6,EV3</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
689	1	
70	3	
38	4	
9242		Missing

<i>CEAD105</i>		<i>Condition 13- Lead 1, EV4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8	1	
9	3	
2	4	
10020		Missing

<i>CEAD106</i>		<i>Condition 13- Lead 2, EV4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2	1	
4	3	
10033		Missing

<i>CEAD107</i>		<i>Condition 13- Lead 3, EV4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
44	1	
25	3	
1	4	
9969		Missing

<i>CEAD108</i>		<i>Condition 14- Lead 1, EV3</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
548	2	
143	3	
37	4	
9311		Missing

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CEAD109		Condition 14- Lead 2, EV3
N	Value	Description
300	2	
57	3	
38	4	
9644		Missing

CEAD111		T Wave (5x) I aVL V6 - 1st ECG
N	Value	Description
40	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
1895	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
2043	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
6061		Missing

CEAD110		Condition 14- Lead 3, EV3
N	Value	Description
573	2	
79	3	
34	4	
9353		Missing

CEAD111		Condition 15- Lead 1, EV4
N	Value	Description
1	4	
9	2	
10	3	
10019		Missing

CEAD112		Condition 15- Lead 2, EV4
N	Value	Description
2	2	
10037		Missing

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<i>CEAD113</i>		<i>Condition 15- Lead 3, EV4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
24	2	
26	3	
9989		Missing

<i>CEAD114</i>		<i>Condition 16- Lead 1, EV7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9	3	
10030		Missing

<i>CEAD115</i>		<i>Condition 16- Lead 2, EV7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039		Missing

<i>CEAD116</i>		<i>Condition 16- Lead 3, EV7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	1	
42	3	
9996		Missing

<i>CEAD117</i>		<i>Condition 17- Lead 1, EV8</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
46	1	
53	2	
901	3	
36	4	
9003		Missing

<i>CEAD118</i>		<i>Condition 17- Lead 2, EV8</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
5	1	
14	2	
247	3	
22	4	
9751		Missing

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CEAD119		Condition 17- Lead 3, EV8
N	Value	Description
52	1	
59	2	
682	3	
41	4	
9205		Missing

CEAD12		T Wave (5x) II III aVF - 1st ECG
N	Value	Description
2	1	T amplitude negative 5.0 mm or more in lead II, or in lead aVF when QRS is mainly upright
734	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
1061	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
8242		Missing

CEAD120		Condition 18- Lead 1, ED4,7,EV5
N	Value	Description
47	1	
6	3	
2	4	
9984		Missing

CEAD121		Condition 18- Lead 2, ED4,7,EV5
N	Value	Description
39	1	
8	3	
2	4	
9990		Missing

CEAD122		Condition 18- Lead 3, ED4,7,EV5
N	Value	Description
74	1	
32	3	
3	4	
9930		Missing

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<i>CEAD123</i>		<i>Condition 19- Lead 1, EV5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
64	2	
6	3	
2	4	
9967		Missing

<i>CEAD124</i>		<i>Condition 19- Lead 2, EV5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
166	2	
15	3	
6	4	
9852		Missing

<i>CEAD125</i>		<i>Condition 19- Lead 3, EV5</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
97	2	
34	3	
2	4	
9906		Missing

<i>CEAD126</i>		<i>ED1 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
203	Y	
9836		Missing

<i>CEAD127</i>		<i>ED2 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2	Y	
10037		Missing

<i>CEAD128</i>		<i>ED3 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10	Y	
10029		Missing

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<i>CEAD129</i>		<i>ED4 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039		Missing

<i>CEAD13</i>		<i>T Wave (5x) V1-V5 - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
120	1	T amplitude negative 5.0 mm or more in any of leads V2 - V5
1663	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
1000	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
1	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
7255		Missing

<i>CEAD130</i>		<i>ED5 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
11	Y	
10028		Missing

<i>CEAD131</i>		<i>ED6 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
26	Y	
10013		Missing

<i>CEAD132</i>		<i>ED7 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
6	Y	
10033		Missing

<i>CEAD133</i>		<i>EV1 Pattern Met</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1253	Y	
8786		Missing

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CEAD134		EV2 Pattern Met
N	Value	Description
60	Y	
9979		Missing

CEAD135		EV3 Pattern Met
N	Value	Description
1881	Y	
8158		Missing

CEAD136		EV4 Pattern Met
N	Value	Description
79	Y	
9960		Missing

CEAD137		EV5 Pattern Met
N	Value	Description
325	Y	
9714		Missing

CEAD138		EV6 Pattern Met
N	Value	Description
3	Y	
10036		Missing

CEAD139		EV7 Pattern Met
N	Value	Description
1	Y	
10038		Missing

CEAD14		ST Segment elevation (92x) I aVL V6 - 1st ECG
N	Value	Description
99	2	ST segment elevation = 1.0 mm in any of leads I, aVL, V6
9940		Missing

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CEAD140		EV8 Pattern Met
N	Value	Description
188	Y	
9851		Missing

CEAD141		Heart Rate-1st ECG-Beats Per Minute
N	Value	Description
9862	Range	26 - 999 (median=81 mean=87.3 std=31.3)
177		Missing

CEAD142		Heart Rate Follow-up ECG-Beats Per Minute
N	Value	Description
9878	Range	30 - 214 (median=76 mean=81.5 std=24.7)
161		Missing

CEAD143		Condition 20- Lead 1, EV5
N	Value	Description
1	1	
2	2	
19	3	
10017		Missing

CEAD144		Condition 20- Lead 2, EV5
N	Value	Description
2	1	
7	2	
41	3	
2	4	
9987		Missing

CEAD145		Condition 20- Lead 3, EV5
N	Value	Description
7	1	
7	2	
63	3	
9962		Missing

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CEAD146		Condition 21- Lead 1, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
18	1	
26	3	
9995		Missing

CEAD147		Condition 21- Lead 2, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
7	1	
5	3	
10027		Missing

CEAD148		Condition 21- Lead 3, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
22	1	
20	3	
5	4	
9992		Missing

CEAD149		Condition 22- Lead 1, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
59	2	
39	3	
4	4	
9937		Missing

CEAD15		ST Segment elevation (92x) II III aVF - 1st ECG
<i>N</i>	<i>Value</i>	<i>Description</i>
248	2	ST segment elevation = 1.0 mm in any of leads II, III, aVF
9791		Missing

CEAD150		Condition 22- Lead 2, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
5	2	
9	3	
10025		Missing

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CEAD151		Condition 22- Lead 3, EV1
N	Value	Description
48	2	
26	3	
2	4	
9963		Missing

CEAD16		ST Segment elevation (92x) V1-V5 - 1st ECG
N	Value	Description
228	2	ST segment elevation = 1.0 mm in lead V5 or ST segment elevation = 2.0 mm in any of leads V1 - V4
9811		Missing

CEAD17		R Wave Amplitude (3x) - 1st ECG
N	Value	Description
541	1	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
191	3	Left (optional code when 3-1 is not present): R amplitude > 15.0 mm but = 20.0 mm in lead I, or R amplitude in V5 or V6, plus S amplitude in V1 > 35.0 mm
9307		Missing

CEAD18		A-V Conduction Defect (6xx) - 1st ECG
N	Value	Description
30	1	Complete (third degree) A-V block (permanent or intermittent) in any lead. Atrial and ventricular complexes independent, and atrial rate faster than ventricular rate, with ventricular rate < 60
435	3	P-R (P-Q) interval = 0.22 sec in the majority of beats in any of leads I, II, III, aVL, aVF
125	5	Short P-R interval. P-R interval < 0.12 sec in all beats of any two of leads I, II, III, aVL, aVF
1	6	Artificial pacemaker
391	8	Mobitz Type II (occurrence of P-wave on time with dropped QRS and T)
6	21	Partial (second degree) A-V block in any lead (2:1 or 3:1 block)
7	22	Wenckebach's Phenomenon (P-R interval increasing from beat to beat until QRS and T dropped)
9	23	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 - V6 (6
3	41	
9032		Missing

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CEAD19		Ventricular Conduction Defect (7xx) - 1st ECG
N	Value	Description
1	12	
9	7	
145	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 (Code as 3-2 in addition if those criteria are met. 7-3 suppresses code 1-2-8.)
235	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.)
119	5	R-R' pattern in either of leads V1, V2 with R' amplitude = R
31	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
581	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 same)
772	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
8146		Missing

CEAD20		Miscellaneous Items (9x) 1x - 1st ECG
N	Value	Description
486	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
9553		Missing

CEAD21		Miscellaneous Items (9x) 3x - 1st ECG
N	Value	Description
34	3	P-wave amplitude = 2.5 mm in any of leads II, III, aVF, in a majority of beats. 9-4-1 QRS transition zone at V3 or to the right of V3 on the chest.
10005		Missing

CEAD22		Miscellaneous Items (9x) 5x - 1st ECG
N	Value	Description
46	5	T-wave amplitude > 12 mm in any of leads I, II, III, aVL, aVF, V1 - V6
9993		Missing

CEAD23		U Wave (Blank) - 1st ECG
N	Value	Description
10039		Missing

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<i>CEAD24</i>		<i>Suppression 8 - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
44	2	
142	4	
9853		Missing

<i>CEAD25</i>		<i>Technical Problem (98x) - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
828	1	Technical problems which interfere with coding
317	2	Technical problems which do not interfere with coding
8894		Missing

<i>CEAD26</i>		<i>Clear - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2098	0	
7939	1	
2		Missing

<i>CEAD27</i>		<i>Suppression Pattern (6xx) - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
610	1	
9427	2	
2		Missing

<i>CEAD28</i>		<i>Type Of Suppression (6xx) - 1st ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
9427	0	
30	C	
44	F	
391	P	
142	V	
3	W	
2		Missing

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CEAD29		Bundle Branch Block - 1st ECG
N	Value	Description
581	1	
772	2	
8684	3	
2		Missing

CEAD30		Major Q I aVL V6 - 1st ECG
N	Value	Description
127	1	
9910	2	
2		Missing

CEAD31		Minor Q I aVL V6 - 1st ECG
N	Value	Description
102	1	
9935	2	
2		Missing

CEAD32		Major Q II III aVF - 1st ECG
N	Value	Description
356	1	
9681	2	
2		Missing

CEAD33		Minor Q II III aVF - 1st ECG
N	Value	Description
291	1	
9746	2	
2		Missing

CEAD34		Major Q V1-V5 - 1st ECG
N	Value	Description
587	1	
9450	2	
2		Missing

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CEAD35		Minor Q V1-V5 - 1st ECG
N	Value	Description
497	1	
9540	2	
2		Missing

CEAD36		ECG Technician - Follow Up ECG
N	Value	Description
128	0	
9907	999	
4		Missing

CEAD37		ECG Date - Follow Up ECG
N	Value	Description
10037	Range	04/03/1987 - 12/28/2019
2		Missing

CEAD38		Coder - Follow Up ECG
N	Value	Description
10037	Present	Text suppressed
2		Missing

CEAD39		Date Coded - Follow Up ECG
N	Value	Description
10037	Range	02/04/1991 - 11/11/2020
2		Missing

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CEAD40		Q-QS Pattern (1xx) I aVL V6 - Follow Up ECG CEAD40 28 continued - (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 > 2mm))
N	Value	Description
33	11	Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead I or V6
5	12	Q duration = 0.04 sec in lead I or V6
16	13	Q duration = 0.04 sec, plus R amplitude = 3 mm in lead a VL
38	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 and < 0.03 sec in lead I or V6
12	22	Q duration = 0.03 sec and < 0.04 sec lead I or V6
16	23	QS pattern in lead I. Do not code in the presence of 7-1-1
15	28	Initial R amplitude decreasing to 2 mm or less every beat
33	31	
57	33	Q/R amplitude ratio = 1/5 and < 1/3, plus Q duration = 0.02 sec and < 0.03 sec in lead I or V6
9814		Missing

CEAD41		Q-QS Pattern (1xx) II III aVF - Follow Up ECG
N	Value	Description
54	11	Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead II
4	12	Q duration = 0.04 sec in lead II
35	14	Q duration = 0.05 sec in lead III, plus a Q-wave amplitude = 1.0 mm in the majority of beats in lead aVF
2	15	Q duration = 0.05 sec in lead aVF
90	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 in lead II
15	22	Q duration = 0.03 sec and < 0.04 sec in lead II
138	23	QS pattern in lead II. Do not code in the presence of 7-1-1.
63	24	Q duration = 0.04 sec and < 0.05 sec in lead III, plus a Q-wave = 1.0 mm amplitude in the majority of beats in aVF
15	25	Q duration = 0.04 sec and < 0.05 sec in lead aVF
83	26	Q duration = 5.0 mm in leads III or aVF
48	31	Q/R amplitude ratio = 1/5 and < 1/3, plus Q duration = 0.02 sec and < 0.03 in lead II
115	34	Q duration = 0.03 sec and < 0.04 sec in lead III, plus a Q-wave = 1.0 mm amplitude in the majority of beats in aVF
12	35	Q duration = 0.03 sec and < 0.04 sec in lead aVF
182	36	QS pattern in lead III and aVF. Do not code in the presence of 7-1-1.
9183		Missing

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CEAD42		<i>Q-QS Pattern (1xx) V1-V5 - Follow Up ECG CEAD42 28 continued - (and absence of codes 3-2, 7-1-1, 7-2-1, or 7-3) between any of leads V2 and V3, V3 and V4, or V4 and V5 (all beats in the lead immediately to the right on the chest must have an initial R > 2 mm</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
113	11	Q/R amplitude ratio = 1/3 plus Q duration = 0.03 sec in any of leads V2-V5
48	12	Q duration = 0.04 sec in any of leads V1-V5
244	16	QS pattern when initial R-wave is present in adj lead to the right on the chest, in any leads V2-V6
58	17	QS pattern in all of leads V1-V4 or V1-V5
31	21	Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 sec, in any of leads V2-V5
11	22	Q duration = 0.03 sec and < 0.04 sec in any of leads V2-V5
130	27	QS pattern in all of leads V1-V3 (do not code in the presence of 7-1-1
104	28	Initial R amplitude decreasing to 2.0mm or less in every beat
19	31	
300	32	
8981		Missing

CEAD43		<i>ST Segment Depression (4xx) I aVL V6 - Follow Up ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
592	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
549	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
17	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped, in any of leads I, aVL, or V6
33	11	STJ depression = 2.0 mm and ST segment horizontal or downward sloping in any of leads I, aVL, or V6
231	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
8617		Missing

CEAD44		<i>ST Segment Depression (4xx) II III aVF - Follow Up ECG</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
189	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in lead II or aVF
199	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 lead II.
11	4	STJ depression = 1.0 mm and ST segment upward sloping, or U-shaped, in lead II
8	11	STJ depression = 2.0 mm and ST segment horizontal or downward sloping in lead II or aVF
81	12	STJ depression = 1.0 mm but < 2.0 mm and ST segment horizontal or downward sloping in lead II or aVF
9551		Missing

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CEAD45		ST Segment Depression (4xx) V1-V5 - Follow Up ECG
N	Value	Description
457	2	STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads V1 - V5
245	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
49	4	STJ depression = 1.0 mm and ST segment upward sloping or U-shaped in any of leads V1 - V5
79	11	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1-V5
292	12	STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1 - V5
8917		Missing

CEAD46		T Wave (5x) I aVL V6 - Follow Up ECG
N	Value	Description
35	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
1787	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
2091	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
6126		Missing

CEAD47		T Wave (5x) II III aVF - Follow Up ECG
N	Value	Description
5	1	T amplitude negative 5.0 mm or more in lead II, or in lead aVF when QRS is mainly upright.
737	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.
1215	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.
8082		Missing

CEAD48		T Wave (5x) V1-V5 - Follow Up ECG
N	Value	Description
185	1	T amplitude negative 5.0 mm or more in lead II, or in lead aVF when QRS is mainly upright
1720	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
1066	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
7068		Missing

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CEAD49		ST Segment elevation (92x) I aVL V6 - Follow Up ECG
N	Value	Description
83	2	ST segment elevation = 1.0 mm in any of leads I, aVL, V6
9956		Missing

CEAD50		ST Segment elevation (92x) II III aVF - Follow Up ECG
N	Value	Description
112	2	ST segment elevation = 1.0 mm in any of leads II, III, aVF
9927		Missing

CEAD51		ST Segment elevation (92x) V1-V5 - Follow Up ECG
N	Value	Description
207	2	ST segment elevation = 1.0 mm in lead V5 or ST segment elevation = 2.0 mm in any of leads V1 - V4
9832		Missing

CEAD52		R (3x) - Follow Up ECG
N	Value	Description
476	1	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
2	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
169	3	
9392		Missing

CEAD53		A-V Conduction Defect (6xx) - Follow Up ECG
N	Value	Description
4	21	
18	1	Complete (third degree) A-V block (permanent or intermittent) in any lead. Atrial and ventricular complexes independent, and atrial rate faster than ventricular rate, with ventricular rate < 60
499	3	P-R (P-Q) interval = 0.22 sec in the majority of beats in any of leads I, II, III, aVL, aVF
136	5	Short P-R interval. P-R interval < 0.12 sec in all beats of any two of leads I, II, III, aVL, aVF
472	8	Artificial pacemaker
7	22	Partial (second degree) A-V block in any lead (2:1 or 3:1 block)
13	23	Wenckebach's Phenomenon (P-R interval increasing from beat to beat until QRS and T dropped)
2	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 - V6
8888		Missing

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CEAD54		Ventricular Conduction Defect (7xx) - Follow Up ECG
N	Value	Description
2	12	
7	7	
130	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
201	4	
102	5	
27	6	
562	11	
771	21	
8237		Missing

CEAD55		Miscellaneous Items (9x) 1x - Follow Up ECG
N	Value	Description
653	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
9386		Missing

CEAD56		Miscellaneous Items (9x) 3x - Follow Up ECG
N	Value	Description
19	3	P-wave amplitude = 2.5 mm in any of leads II, III, aVF, in a majority of beats. 9-4-1 QRS transition zone at V3 or to the right of V3 on the chest
10020		Missing

CEAD57		Miscellaneous Items (9x) 5x - Follow Up ECG
N	Value	Description
20	5	T-wave amplitude > 12 mm in any of leads I, II, III, aVL, aVF, V1 - V6
10019		Missing

CEAD58		U Wave (Blank) - Follow Up ECG
N	Value	Description
10039		Missing

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CEAD59		Suppression 8 - Follow Up ECG
N	Value	Description
25	2	
43	4	
9971		Missing

CEAD60		Technical Problem (98x) - Follow Up ECG
N	Value	Description
692	1	Technical problems which interfere with coding
224	2	Technical problems which do not interfere with coding
9123		Missing

CEAD61		Clear - Follow Up ECG
N	Value	Description
2150	0	
7886	1	
3		Missing

CEAD62		Suppression Pattern (6xx) - Follow Up ECG
N	Value	Description
560	1	
9477	2	
2		Missing

CEAD63		Type Of Suppression (6xx) - Follow Up ECG
N	Value	Description
9477	0	
18	C	
25	F	
472	P	
43	V	
2	W	
2		Missing

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CEAD64		Bundle Branch Block - Follow Up ECG
N	Value	Description
562	1	
771	2	
8704	3	
2		Missing

CEAD65		Major Q I AVL V6 - Follow Up ECG
N	Value	Description
120	1	
9917	2	
2		Missing

CEAD66		Minor Q I AVL V6 - Follow Up ECG
N	Value	Description
105	1	
9932	2	
2		Missing

CEAD67		Major Q II III AVF - Follow Up ECG
N	Value	Description
416	1	
9621	2	
2		Missing

CEAD68		Minor Q II III AVF - Follow Up ECG
N	Value	Description
357	1	
9680	2	
2		Missing

CEAD69		Major Q V1-V5 - Follow Up ECG
N	Value	Description
635	1	
9402	2	
2		Missing

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CEAD70		Minor Q V1-V5 - Follow Up ECG
N	Value	Description
423	1	
9614	2	
2		Missing

CEAD71		Third Or Last - Follow Up ECG
N	Value	Description
10037	T	
2		Missing

CEAD72		Condition 1 - Lead 1, ED1
N	Value	Description
39	1	
26	3	
3	4	
9971		Missing

CEAD73		Condition 1 - Lead 2, ED1
N	Value	Description
69	1	
104	3	
4	4	
9862		Missing

CEAD74		Condition 1 - Lead 3, ED1
N	Value	Description
93	1	
117	3	
9	4	
9820		Missing

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<i>CEAD75</i>		<i>Condition 2 - Lead 1, ED1</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2	1	
3	3	
10034		Missing

<i>CEAD76</i>		<i>Condition 2 - Lead 2, ED1</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2	1	
10037		Missing

<i>CEAD77</i>		<i>Condition 2 - Lead 3, ED1</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
15	1	
16	3	
10008		Missing

<i>CEAD78</i>		<i>Condition 3 - Lead 1, ED2,3,4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	1	
10038		Missing

<i>CEAD79</i>		<i>Condition 3 - Lead 2, ED2,3,4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
12	1	
8	3	
10019		Missing

<i>CEAD80</i>		<i>Condition 3 - Lead 3, ED2,3,4</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
8	1	
20	3	
10011		Missing

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<i>CEAD81</i>		<i>Condition 4 - Lead 1, ED5,6,7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
19	1	
22	3	
2	4	
9996		Missing

<i>CEAD82</i>		<i>Condition 4 - Lead 2, ED5,6,7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
63	1	
115	3	
3	4	
9858		Missing

<i>CEAD83</i>		<i>Condition 4 - Lead 3, ED5,6,7</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	4	
88	1	
111	3	
9839		Missing

<i>CEAD84</i>		<i>Condition 5 - Lead 1, EV1-EV8</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039		Missing

<i>CEAD85</i>		<i>Condition 5 - Lead 2, EV1-EV8</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039		Missing

<i>CEAD86</i>		<i>Condition 5 - Lead 3, EV1-EV8</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039		Missing

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CEAD87		Condition 7 - Lead 1, ED2,5,EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
222	1	
46	3	
19	4	
9752		Missing

CEAD88		Condition 7 - Lead 2, ED2,5,EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
117	1	
18	3	
15	4	
9889		Missing

CEAD89		Condition 7 - Lead 3, ED2,5,EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
259	1	
62	3	
21	4	
9697		Missing

CEAD90		Condition 8 - Lead 1, EV2
<i>N</i>	<i>Value</i>	<i>Description</i>
9	1	
4	3	
1	4	
10025		Missing

CEAD91		Condition 8 - Lead 2, EV2
<i>N</i>	<i>Value</i>	<i>Description</i>
1	1	
2	3	
10036		Missing

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CEAD92		Condition 8 - Lead 3, EV2
<i>N</i>	<i>Value</i>	<i>Description</i>
13	1	
11	3	
10015		Missing

CEAD93		Condition 9 - Lead 1, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
536	2	
67	3	
27	4	
9409		Missing

CEAD94		Condition 9 - Lead 2, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
230	2	
22	3	
18	4	
9769		Missing

CEAD95		Condition 9 - Lead 3, EV1
<i>N</i>	<i>Value</i>	<i>Description</i>
497	2	
65	3	
23	4	
9454		Missing

CEAD96		Condition 10- Lead 1, EV2
<i>N</i>	<i>Value</i>	<i>Description</i>
24	2	
4	3	
10011		Missing

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<i>CEAD97</i>		<i>Condition 10- Lead 2, EV2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	3	
4	2	
1	4	
10033		Missing

<i>CEAD98</i>		<i>Condition 10- Lead 3, EV2</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
27	2	
14	3	
9998		Missing

<i>CEAD99</i>		<i>Condition 11- Lead 1, EV6</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
1	1	
9	3	
10029		Missing

<i>CEADFLAG</i>		<i>1= CEAD Form Is Present</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039	1	

<i>CONTYR</i>		<i>Contact Year - Surv. Record Seq. Number</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039	1	

<i>ID</i>		<i>ARIC Occurrence ID</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
10039	Present	Text suppressed