

**CHD Cohort Surveillance****ECG****Data set name: S14SECA1****Instructions:** ECG

| <i>ID</i>  |              | <i>ARIC Occurrence ID</i> |
|------------|--------------|---------------------------|
| <i>N</i>   | <i>Value</i> | <i>Description</i>        |
| 17477<br>4 | Present      | Text suppressed           |

| <i>SECA01A</i> |              | <i>Sequence Order Of ECG: F, L, or T Q01a</i> |
|----------------|--------------|---|
| <i>N</i>       | <i>Value</i> | <i>Description</i>                            |
| 71574          | F            | First   |
| 60434          | L            | Last  |
| 42766          | T            | Third   |

| <i>SECA02</i> |              | <i>ECG Technician Code Q02</i> |
|---------------|--------------|--------------------------------|
| <i>N</i>      | <i>Value</i> | <i>Description</i>             |
| 13536<br>4    | Present      | Text suppressed                |
| 39410         |              | Missing                        |

| <i>SECA03</i> |              | <i>Date ECG Recorded Q03</i> |
|---------------|--------------|------------------------------|
| <i>N</i>      | <i>Value</i> | <i>Description</i>           |
| 17476<br>5    | Range        | 01/25/1986 - 08/16/2015      |
| 9             |              | Missing                      |

| <i>SECA04</i> |              | <i>Date ECG Sent Q04</i> |
|---------------|--------------|--------------------------|
| <i>N</i>      | <i>Value</i> | <i>Description</i>       |
| 17407<br>7    | Range        | 11/11/1911 - 11/01/2016  |
| 697           |              | Missing                  |

| <i>SECA05</i> |              | <i>Date ECG Coded Q05</i> |
|---------------|--------------|---------------------------|
| <i>N</i>      | <i>Value</i> | <i>Description</i>        |
| 17477<br>2    | Range        | 05/31/1990 - 11/01/2016   |
| 2             |              | Missing                   |

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| SECA06     |         | Reading Center Coder ID | Q06 |
|------------|---------|-------------------------|-----|
| N          | Value   | Description             |     |
| 17477<br>2 | Present | Text suppressed         |     |
| 2          |         | Missing                 |     |

| SECA07     |       | Q-QS 1L   | Q07 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 830        | 11    | Q/R amplitude ratio = 1/3, plus Q duration = 0.03 sec in lead I or V6.                          |     |
| 69         | 12    | Q duration = 0.04 sec in lead I or V6.  |     |
| 339        | 13    | Q duration = 0.04 sec, plus R amplitude = 3 mm in lead aVL.                                     |     |
| 1          | 16    |   |     |
| 696        | 21    | Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 sec in lead I or V6.           |     |
| 272        | 22    | Q duration = 0.03 sec and < 0.04 sec in lead I or V6.   |     |
| 429        | 23    | QS pattern in lead I. Do not code in the presence of 7-1-1.                                     |     |
| 119        | 28    |   |     |
| 653        | 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. |     |
| 976        | 33    | Q duration = 0.03 sec and < 0.04 sec, plus R amplitude = 3 mm in lead aVL.                      |     |
| 17039<br>0 |       | Missing   |     |

| SECA08     |       | Q-QS 23                                 | Q08 |
|------------|-------|---|-----|
| N          | Value | Description                             |     |
| 18192      | Range | 11 - 36 ( median=25 mean=26.1 std=7.9 ) |     |
| 15658<br>2 |       | Missing                                 |     |

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| SECA09     |       | Q-QS V1  | Q09 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 2426       | 11    | Q/R amplitude ratio = 1/3 plus Q duration = 0.03 sec in any of leads V2-V5.  |     |
| 840        | 12    | Q duration = 0.04 sec in any of leads V1-V5  |     |
| 4572       | 16    | QS pattern when initial R-wave is present in adjacent lead to the right on the chest, in any of leads V2-V6  |     |
| 1485       | 17    | QS pattern in all of leads V1-V4 or V1-V5. 1-2-1 Q/R amplitude ratio ! 1/3, plus Q duration = 0.02   |     |
| 507        | 21    | Q/R amplitude ratio = 1/3, plus Q duration = 0.02 sec and < 0.03 sec, in any of leads V2-V5.   |     |
| 239        | 22    | Q duration = 0.03 sec and < 0.04 sec in any of leads V2-V5.  |     |
| 2684       | 27    | QS pattern in all of leads V1, V2, and V3. (Do not code in the presence of 7-1-1).   |     |
| 1584       | 28    | Initial R amplitude decreasing to 2.0 mm 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 > |     |
| 277        | 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.   |     |
| 5491       | 32    | QS pattern in lead V1 and V2. (Do not code in the presence of 3-1 or 7-1-1.)   |     |
| 15466<br>9 |       | Missing  |     |

| SECA10     |       | S-T Junction & Segment 1L   | Q10 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 11805      | 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.   |     |
| 9458       | 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. |     |
| 647        | 4     |   |     |
| 1304       | 11    |   |     |
| 6186       | 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.  |     |
| 14537<br>4 |       | Missing   |     |

| SECA11     |       | S-T Junction & Segment 23  | Q11 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 3705       | 2     | STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in lead II or aVF.                                    |     |
| 3277       | 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. |     |
| 369        | 4     |  |     |
| 237        | 11    |  |     |
| 1564       | 12    | STJ depression = 1.0 mm but < 2.0 mm and ST segment horizontal or downward sloping in lead II or aVF.                                    |     |
| 16562<br>2 |       | Missing  |     |

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| SECA12     |       | S-T Junction & Segment V1  | Q12 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 8346       | 2     | STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in any of leads V1 - V5   |     |
| 4112       | 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 |     |
| 1627       | 4     | STJ depression = 1.0 mm and ST segment upward sloping or U-shaped in any of leads V1 - V5  |     |
| 2315       | 11    | STJ depression = 2.0 and ST segment horizontal or downward sloping in any of leads V1-V5   |     |
| 6408       | 12    | STJ depression = 1.0 mm but < 2.0 mm and ST segment horizontal or downward sloping in any of leads V1, V2, V3, V4, V5                                |     |
| 15196<br>6 |       | Missing  |     |

| SECA13     |       | T Wave Items 1L   | Q13 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 1168       | 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.  |     |
| 37107      | 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 |     |
| 32876      | 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                         |     |
| 185        | 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.   |     |
| 10343<br>8 |       | Missing   |     |

| SECA14     |       | T Wave Items 23   | Q14 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 186        | 1     |   |     |
| 14911      | 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. |     |
| 17871      | 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.   |     |
| 46         | 4     | T amplitude positive and T/R amplitude ratio < 1/20 in lead II; R wave amplitude must be = 10.0 mm.   |     |
| 14176<br>0 |       | Missing   |     |

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| SECA15     |       | T Wave Items V1  | Q15 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 4070       | 1     | T amplitude negative 5.0 mm or more in any of leads V2, V3, V4, V5.  |     |
| 34635      | 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 |     |
| 17232      | 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   |     |
| 216        | 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.  |     |
| 11862<br>1 |       | Missing  |     |

| SECA16     |       | ST Segments 1L  | Q16 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 2326       | 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. |     |
| 17244<br>8 |       | Missing   |     |

| SECA17     |       | ST Segments 23  | Q17 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 4984       | 2     | STJ depression = 0.5 mm and < 1.0 mm and ST segment horizontal or downward sloping in lead II or aVF. |     |
| 16979<br>0 |       | Missing   |     |

| SECA18     |       | ST Segments V1   | Q18 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 6983       | 2     | ST segment elevation = 1.0 mm in lead V5 or ST segment elevation ! 2.0 mm in any of leads V1-V4. |     |
| 16779<br>1 |       | Missing  |     |

| SECA19     |       | R 3x   | Q19 |
|------------|-------|--|-----|
| N          | Value | Description  |     |
| 8673       | 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   |     |
| 66         | 2     |  |     |
| 3677       | 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. (Measured only on second to last complete normal beat.) |     |
| 16235<br>8 |       | Missing  |     |

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| SECA20     |       | A-V Conduction Defect 6x  | Q20 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 80         | 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.  |     |
| 1266       | 3     | P-R (P-Q) interval = 0.22 sec in the majority of beats in any of leads I, II, III, aVL, aVF   |     |
| 630        | 5     | Short P-R interval. P-R interval < 0.12 sec in all beats of any two of leads I, II, III, aVL, aVF   |     |
| 9          | 6     |   |     |
| 5094       | 8     | Artificial pacemaker  |     |
| 23         | 21    | Mobitz Type II (occurrence of P-wave on time with dropped QRS and T)  |     |
| 36         | 22    | Partial (second degree) A-V block in any lead (2:1 or 3:1 block)  |     |
| 45         | 23    | Wenckebach's Phenomenon (P-R interval increasing from beat to beat until QRS and T dropped)   |     |
| 38         | 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 |     |
| 1          | 42    |   |     |
| 16755<br>2 |       | Missing   |     |

| SECA21     |       | Ventricular Conduction Defect 7x  | Q21 |
|------------|-------|---|-----|
| N          | Value | Description   |     |
| 568        | 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.)  |     |
| 3046       | 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.)  |     |
| 563        | 5     | R-R' pattern in either of leads V1, V2 with R' amplitude = R.   |     |
| 726        | 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.   |     |
| 36         | 7     |   |     |
| 27         | 8     |   |     |
| 7477       | 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) |     |
| 36         | 12    |   |     |
| 8853       | 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    |     |
| 3          | 22    |   |     |
| 15343<br>9 |       | Missing   |     |

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| SECA22     |       | Miscellaneous Items 91 | Q22 |
|------------|-------|------------------------|-----|
| N          | Value | Description            |     |
| 8345       | 1     |                        |     |
| 16642<br>9 |       | Missing                |     |

| SECA23     |       | Miscellaneous Items 93 | Q23 |
|------------|-------|------------------------|-----|
| N          | Value | Description            |     |
| 494        | 3     |                        |     |
| 17428<br>0 |       | Missing                |     |

| SECA24     |       | Miscellaneous Items 95 | Q24 |
|------------|-------|------------------------|-----|
| N          | Value | Description            |     |
| 634        | 5     |                        |     |
| 17414<br>0 |       | Missing                |     |

| SECA25     |       | Miscellaneous Items U - Blank | Q25 |
|------------|-------|-------------------------------|-----|
| N          | Value | Description                   |     |
| 17477<br>4 |       | Missing                       |     |

| SECA26     |       | Heart Rate Per Minute                    | Q26 |
|------------|-------|--|-----|
| N          | Value | Description                              |     |
| 17382<br>3 | Range | 1 - 999 ( median=78 mean=82.5 std=29.4 ) |     |
| 951        |       | Missing                                  |     |

| SECA27     |       | Supp 8      | Q27 |
|------------|-------|-------------|-----|
| N          | Value | Description |     |
| 394        | 2     |             |     |
| 1056       | 4     |             |     |
| 17332<br>4 |       | Missing     |     |

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| SECA28     |       | Tech Problem | Q28 |
|------------|-------|--------------|-----|
| N          | Value | Description  |     |
| 8627       | 1     |              |     |
| 846        | 2     |              |     |
| 16530<br>1 |       | Missing      |     |

| SECA29     |       | Clear 10    | Q29 |
|------------|-------|-------------|-----|
| N          | Value | Description |     |
| 43023      | 0     |             |     |
| 13172<br>7 | 1     |             |     |
| 24         |       | Missing     |     |

| SECA30     |       | Suppression Pattern | Q30 |
|------------|-------|---------------------|-----|
| N          | Value | Description         |     |
| 6656       | 1     |                     |     |
| 16811<br>5 | 2     |                     |     |
| 3          |       | Missing             |     |

| SECA31     |       | Type Of Suppressions | Q31 |
|------------|-------|----------------------|-----|
| N          | Value | Description          |     |
| 12966<br>8 | 0     |                      |     |
| 80         | C     |                      |     |
| 394        | F     |                      |     |
| 5087       | P     |                      |     |
| 1056       | V     |                      |     |
| 39         | W     |                      |     |
| 38450      |       | Missing              |     |

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| SECA32     |       | Bundle Branch Block | Q32 |
|------------|-------|---------------------|-----|
| N          | Value | Description         |     |
| 7477       | 1     |                     |     |
| 8853       | 2     |                     |     |
| 15844<br>1 | 3     |                     |     |
| 3          |       | Missing             |     |

| SECA33     |       | Major Q I aVL V6 |
|------------|-------|------------------|
| N          | Value | Description      |
| 2635       | 1     |                  |
| 17213<br>6 | 2     |                  |
| 3          |       | Missing          |

| SECA34     |       | Minor Q I aVL V6 |
|------------|-------|------------------|
| N          | Value | Description      |
| 1748       | 1     |                  |
| 17302<br>3 | 2     |                  |
| 3          |       | Missing          |

| SECA35     |       | Major Q II III aVF |
|------------|-------|--------------------|
| N          | Value | Description        |
| 9286       | 1     |                    |
| 16548<br>5 | 2     |                    |
| 3          |       | Missing            |

| SECA36     |       | Minor Q II III aVF |
|------------|-------|--------------------|
| N          | Value | Description        |
| 7132       | 1     |                    |
| 16763<br>9 | 2     |                    |
| 3          |       | Missing            |

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| SECA37     |              | Major Q V1-V5      | Q37 |
|------------|--------------|--------------------|-----|
| <i>N</i>   | <i>Value</i> | <i>Description</i> |     |
| 12753      | 1            |                    |     |
| 16201<br>8 | 2            |                    |     |
| 3          |              | Missing            |     |

| SECA38     |              | Minor Q V1-V5      |
|------------|--------------|--------------------|
| <i>N</i>   | <i>Value</i> | <i>Description</i> |
| 7352       | 1            |                    |
| 16741<br>9 | 2            |                    |
| 3          |              | Missing            |

| SECAFLAG   |              | 1= SECA Form Is Present |
|------------|--------------|-------------------------|
| <i>N</i>   | <i>Value</i> | <i>Description</i>      |
| 17477<br>4 | 1            |                         |