

# CARDIAC PROJECT

## Coronary Artery Risk Detection In Appalachian Communities

### 19 Year Summary - Fifth Grade

#### 1998 - 2017



	PILOT YEARS Year 1 - 3 1998-2001	Year 4 2001-2002	Year 5 2002-2003	Year 6 2003-2004	Year 7 2004-2005	Year 8 2005-2006	Year 9 2006-2007	Year 10 2007-2008	Year 11 2008-2009	Year 12 2009-2010	Year 13 2010-2011	Year 14 2011-2012	Year 15 2012-2013	Year 16 2013-2014	Year 17 2014-2015	Year 18 2015-2016	Year 19 2016-2017	Total
Number of participating counties	***	27	40	53	55	54	53	55	55	53	50	51	49	52	49	49	48	***
Number of eligible 5th grade population	5,817	8,495	13,168	18,274	20,854	19,220	17,720	19,778	18,169	18,642	17,845	14,628	16,328	16,209	15,698	15,301	14,237	***
Children screened number (%)	2,305 (39.6)	3,917 (46.1)	5,973 (45.4)	8,984 (49.2)	9,008 (43.2)	9,257 (48.2)	7,599 (42.9)	7,794 (39.4)	7,816 (43.0)	7,547 (40.5)	6,176 (34.6)	4,780 (32.7)	5,154 (31.6)	4,421 (27.3)	4,185 (26.7)	4,054 (26.5)	3,648 (25.6)	102,930
Underweight-Normal <85th Percentile number (% of screened)	1,195 (53.3)	2,039 (54.6)	2,948 (51.0)	4,633 (53.7)	4,603 (52.7)	4,606 (50.4)	3,878 (54.6)	4,109 (53.3)	4,139 (53.0)	4,039 (53.6)	3,253 (52.7)	2,555 (53.5)	2,734 (53.1)	2,282 (51.7)	2,211 (52.8)	2,122 (52.3)	1,952 (53.5)	53,455 (52.9)
Overweight BMI ≥ 85 <sup>th</sup> - 94 <sup>th</sup> number (% of screened)	413 (18.4)	684 (18.3)	1,089 (18.9)	1,576 (18.3)	1,664 (19.0)	1,741 (19.1)	1,293 (18.2)	1,538 (20.0)	1,447 (18.5)	1,422 (18.9)	1,136 (18.4)	892 (18.7)	966 (18.7)	799 (18.1)	769 (18.4)	747 (18.4)	704 (19.3)	18,931 (18.7)
Obese BMI ≥ 95 <sup>th</sup> number (% of screened)	635 (28.3)	1,017 (27.2)	1,736 (30.1)	2,426 (28.1)	2,469 (28.3)	2,785 (30.5)	1,935 (27.2)	2,060 (26.7)	2,218 (28.4)	2,075 (27.5)	1,781 (28.9)	1,325 (27.8)	1,453 (28.2)	1,333 (30.2)	1,204 (28.8)	1,185 (29.2)	990 (27.2)	28,715 (28.4)
Blood pressure ≥ 95th percentile number (% screened)	376 (25.0)	823 (23.9)	1,210 (22.8)	1,824 (22.9)	1,757 (21.7)	2,034 (27.2)	1,405 (24.8)	1,565 (24.7)	1,627 (21.9)	1,587 (22.2)	1,470 (23.9)	962 (20.3)	1,050 (21.3)	956 (22.3)	924 (22.8)	940 (23.5)	893 (24.7)	21,464 (23.2)
Low Density Lipoprotein (LDL) ≥ 130 (% of FLP sample)	---	---	76 (9.9)	340 (12.6)	480 (11.5)	430 (7.9)	470 (7.9)	426 (7.0)	391 (6.3)	456 (7.7)	356 (6.4)	249 (5.6)	251 (5.2)	248 (5.9)	181 (4.6)	207 (5.5)	128 (3.8)	4,776 (7.1)
High Density Lipoprotein (HDL) < 40 (% of FLP sample)	---	---	121 (15.8)	414 (15.4)	703 (16.8)	869 (16.0)	906 (15.2)	1,040 (17.1)	1095 (17.7)	1,310 (22.1)	1,133 (20.2)	779 (17.5)	938 (19.4)	756 (17.9)	655 (16.7)	616 (16.3)	548 (16.0)	11,973 (17.7)
Acanthosis Nigricans (AN) number with positive marker (%)	---	111 (3.1)	347 (5.9)	430 (5.0)	378 (4.4)	522 (7.0)	442 (6.9)	498 (7.7)	252 (3.8)	301 (4.1)	248 (4.1)	187 (3.9)	211 (4.1)	159 (3.6)	156 (3.8)	229 (5.7)	121 (3.3)	4,598 (4.9)
**Child - HOMA > 3.00	---	29 (17.7)	33 (42.3)	90 (42.9)	86 (57.0)	143 (63.0)	146 (58.9)	157 (58.6)	101 (66.9)	147 (57.0)	224 (63.5)	83 (79.0)	84 (86.6)	81 (92.0)	69 (88.5)	107 (89.2)	---	1,579 (60.9)
**Child - Abnormal Insulin Level	---	19 (11.1)	20 (23.0)	57 (23.9)	56 (30.8)	106 (42.6)	99 (35.4)	126 (40.8)	72 (43.6)	118 (41.0)	162 (42.4)	72 (62.1)	68 (70.1)	70 (73.7)	52 (65.0)	85 (63.9)	---	1,182 (41.2)

\*\*\* PILOT YEARS - # of counties that participated -- Year 1 - 3; Year 2 - 7; Year 3 - 14.

Year 19 - 7 counties declined to participate

Please note not all children have complete screening information, valid percents reported. Use of fasting lipid profile (instead of fingerstick) started Year 5;

Change from fasting to non-fasting lipid profile started 2nd semester of Year 15.

Includes: Hypertension: Systolic blood pressure and/or diastolic blood pressure ≥ 95%; Hyperinsulinemia >20.5mcU/mL; \*\*Child - Abnormal Insulin Level - percentage of AN positive plus ordered insulin sample.

Other Programs throughout the years: Cabell County - Greenbrier County - CHOICES; HEART Program; McDowell County - CHOICES; Wood County - L.I.F.E.