

## SUPPLEMENTAL MATERIALS

Table S1. Screening Methods for Capture of Aortic Stenosis Cases

Method	Description
<b>1. Procedure screen</b>	Using the CHS hospital record database and specific CPT codes (35.01, 35.11, 35.96, 35.21, 35.22, 35.05, 35.06), participants with hospitalizations coded for aortic valvuloplasty and/or aortic valve replacement (surgical or transcatheter) were designated for further review.
<b>2. Diagnosis screen</b>	Using the CHS hospital record database, CHS participants with a hospitalization coded with ICD9 diagnosis code 424.1 (aortic valve abnormality, not otherwise specified), 395.0 and 395.2 (rheumatic aortic stenosis) or 396.0 or 396.2 (combined mitral and aortic valve disorders) in any coding position were designated for further review.
<b>3. Heart failure events screen</b>	CHS hospitalizations for heart failure had been previously adjudicated, including for presence and severity of valve disease. As part of this review and adjudication, AS was graded semi-quantitatively using a 6-point scale (none, mild, mild-moderate, moderate, moderate-severe, severe). Participants who were identified as having had a heart failure hospitalization with any degree of AS were designated for further review.
<b>4. Echocardiography screen</b>	CHS participants with any degree of AS or a valve coded as having “aortic valve abnormality” or “significant aortic stenosis” on either of the two standardized CHS echocardiograms were designated for further review.
<b>5. Cause of death screen</b>	The majority (88%) of CHS subjects were deceased at the time of the initiation of this study. For deceased participants, CHS routinely obtains death certificates and attempts to obtain a next-of-kin narrative of the mortality circumstances. Based on these data and hospital record information, CHS adjudicates and records a cause of death. Participants with a CHS determined cause of death that suggested aortic

	stenosis or valvular heart disease, and not otherwise identified by the 4 above screening methods, were designated for further review.
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**Supplemental Methods. Yield of Different Screening Methods**

There were 990 unique participants identified for review based on screening methods. The highest yield for participants with clinically significant AS of those screened was 84.1% (74/88) for procedure code, followed by 30.4% (55/181) for heart failure screen, 30.0% (91/303) for CHS echocardiogram, and 26.8% (187/697) for diagnosis code. For participants not otherwise reviewed, 12.5% (3/24) of those identified by cause of death had clinically significant AS. Among cases detected by the four leading methods, for those identified by a single method, the yield for clinically significant AS was 9.2% (63/688). This yield increased to 47.2% (94/199) for those selected by two methods, 83.0% (44/53) by three methods, and 100% (6/6) by four methods. Regarding ICD-9 424.1, the yield was 82.3% (65/79) in the primary position, and 34.0% (49/144) in the secondary position.

**Table S2. Cumulative Frequency<sup>a</sup> for Possible, Probable or Definite AS Overall and by Sex and Race**

Prevalent or Incident Cases	Overall	Sex		Race	
		Men	Women	Non-black	Black
<b><i>Clinically Significant AS</i></b>					
Cases/Sample	270/5778	124/2438	146/3340	253/4949	17/829
Cumulative Frequency, %	4.67	5.09	4.37	5.11	2.05
95% CI	(4.16, 5.25)	(4.29, 6.04)	(3.73, 5.12)	(4.53, 5.76)	(1.28, 3.28)
<b><i>Moderate or Severe AS</i></b>					
Cases/Sample	407/5778	187/2438	220/3340	373/4949	34/829
Cumulative Frequency, %	7.04	7.67	6.59	7.54	4.10
95% CI	(6.41, 7.74)	(6.68, 8.80)	(5.80, 7.48)	(6.84, 8.31)	(2.95, 5.70)

<sup>a</sup>Over the entire 25-year follow-up period.

AS = aortic stenosis; CI = confidence interval.

**Table S3. Cumulative Incidence of Possible, Probable or Definite Aortic Stenosis Overall and by Age Categories**

Incident Cases <sup>a</sup>	Overall			Age<75y			Age 75-84y			Age≥85y		
	10y	15y	20y	10y	15y	20y	10y	15y	20y	10y	15y	20y
<b><i>Clinically Significant AS</i></b>												
Subdistr	1.58	2.82	3.71	1.08	2.28	3.38	2.43	3.88	4.41	3.24	3.70 <sup>b</sup>	3.70 <sup>b</sup>
Cum Inc,%	(1.25,1.90)	(2.39,3.25)	(3.21,4.20)	(0.75,1.42)	(1.79,2.76)	(2.79,3.96)	(1.70,3.15)	(2.96,4.79)	(3.44,5.38)	(0.87,5.61)	(1.15,6.26)	(1.15,6.26)
Cause Spec	1.94	4.24	7.00	1.23	3.05	5.61	3.48	7.62	12.45	6.62	19.96 <sup>b</sup>	19.96 <sup>b</sup>
Cum Inc,%	(1.54,2.35)	(3.57,4.90)	(5.99,8.01)	(0.75,1.62)	(2.40,3.70)	(4.59,6.63)	(2.43,4.54)	(5.69,9.55)	(8.68,16.22)	(1.20,12.05)	(0,46.52)	(0,46.52)
<b><i>Hospitalization for Severe AS</i></b>												
Subdistr	1.52	2.60	3.38	1.08	2.17	3.19	2.19	3.35	3.71	3.67	4.13 <sup>b</sup>	4.13 <sup>b</sup>
Cum Inc,%	(1.20,1.84)	(2.19,3.02)	(2.91,3.85)	(0.75,1.42)	(1.70,2.63)	(2.62,3.75)	(1.50,2.89)	(2.50,4.20)	(2.82,4.60)	(1.16,6.18)	(1.45,6.80)	(1.45,6.80)
Cause Spec	1.87	3.87	6.33	1.24	2.88	5.28	3.13	6.50	9.69	7.34	20.57 <sup>b</sup>	20.57 <sup>b</sup>
Cum Inc,%	(1.48,2.27)	(3.24,4.51)	(5.36,7.29)	(0.85,1.62)	(2.25,3.51)	(4.29,6.27)	(2.12,4.13)	(4.71,8.28)	(6.43,12.96)	(1.77,12.9)	(0,46.95)	(0,46.95)
<b><i>Moderate or Severe AS</i></b>												
Subdistr	2.44	4.11	5.54	1.63	3.23	4.99	3.78	5.70	6.60	5.58	6.51 <sup>b</sup>	6.51 <sup>b</sup>
Cum Inc,%	(2.04,2.84)	(3.59,4.63)	(4.94,6.14)	(1.22,2.04)	(2.66,3.81)	(4.29,5.70)	(2.88,4.68)	(4.60,6.79)	(5.42,7.78)	(2.50,8.66)	(3.18,9.85)	(3.18,9.85)
Cause Spec	2.97	6.06	10.35	1.86	4.31	8.28	5.17	10.64	18.47	10.95	26.50 <sup>b</sup>	26.50 <sup>b</sup>
Cum Inc,%	(2.48,3.46)	(5.27,6.84)	(9.14,11.55)	(1.39,2.33)	(3.54,5.09)	(7.06,9.49)	(3.93,6.42)	(8.43,12.84)	(13.87,23.07)	(4.41,17.49)	(1.27,51.72)	(1.27,51.72)

<sup>a</sup>Values in parentheses are 95% confidence intervals.

<sup>b</sup>Identical estimates reflect lack of additional incident events during the longer study interval.

AS = aortic stenosis; Caus Spec = cause specific; Cum Inc = cumulative incidence; Subdistr = subdistribution; y = years.

**Table S4. Cumulative Incidence of Possible, Probable or Definite Aortic Stenosis by Sex and Race**

Incident Cases <sup>a</sup>	Men			Women			Non-Black			Black		
	10y	15y	20y	10y	15y	20y	10y	15y	20y	10y	15y	20y
<b><i>Clinically Significant AS</i></b>												
Subdistr	2.13	3.27	4.20	1.17	2.50	3.34	1.69	3.02	4.00	0.82	1.50	1.64
Cum Inc,%	(1.55, 2.71)	(2.55,3.98)	(3.40,5.01)	(0.80,1.54)	(1.96,3.03)	(2.72,3.96)	(1.33,2.05)	(2.54,3.50)	(3.46,4.55)	(0.17,1.47)	(0.62,2.38)	(0.72,2.56)
Cause Spec	2.83	5.45	9.19	1.38	3.51	5.80	2.08	4.49	7.51	1.01	2.44	2.87
Cum Inc,%	(2.05,3.60)	(4.21,6.70)	(7.21,11.17)	(0.94,1.81)	(2.74,4.27)	(4.65,6.94)	(1.63,2.52)	(3.76,5.22)	(6.40,8.62)	(0.20,1.82)	(0.95,3.82)	(1.17,4.58)
<b><i>Hospitalization for Severe AS</i></b>												
Subdistr	1.92	2.85	3.70	1.23	2.43	3.15	1.63	2.83	3.69	0.81	1.09	1.23
Cum Inc,%	(1.37,2.47)	(2.18,3.51)	(2.94,4.46)	(0.85,1.61)	(1.90,2.96)	(2.55,3.75)	(1.27,1.98)	(2.37,3.30)	(3.17,4.22)	(0.17,1.47)	(0.34,1.84)	(0.43,2.02)
Cause Spec	2.63	4.78	8.29	1.41	3.34	5.29	2.00	4.19	6.86	1.01	1.61	2.02
Cum Inc,%	(1.87,3.40)	(3.62,5.95)	(6.36,10.23)	(0.97,1.84)	(2.60,4.08)	(4.21,6.38)	(1.56,2.43)	(3.49,4.89)	(5.79,7.92)	(0.20,1.82)	(0.45,2.76)	(0.61,3.42)
<b><i>Moderate or Severe AS</i></b>												
Subdistr	3.07	4.79	6.37	1.98	3.61	4.93	2.56	4.30	5.84	1.64	2.87	3.42
Cum Inc,%	(2.38,3.76)	(3.94,5.65)	(5.38,7.35)	(1.50,2.46)	(2.97,4.26)	(4.18,5.68)	(2.12,3.00)	(3.73,4.87)	(5.19,6.50)	(0.72,2.56)	(1.66,4.08)	(2.10,4.74)
Cause Spec	4.00	7.89	13.86	2.30	4.96	8.44	3.10	6.28	10.88	2.09	4.44	5.95
Cum Inc,%	(3.09,4.90)	(6.42,9.36)	(11.51,16.21)	(1.74,2.86)	(4.06,5.86)	(7.08,9.79)	(2.56,3.63)	(5.43,7.13)	(9.57,12.19)	(0.91,3.27)	(2.53,6.36)	(3.56,8.34)

<sup>a</sup>Values in parentheses are 95% confidence intervals.

AS = aortic stenosis; Caus Spec = cause specific; Cum Inc = cumulative incidence; Subdistr = subdistribution; y = years.

**Table S5. Cumulative Incidence of Probable or Definite Aortic Stenosis and Death by Hypertension and Diabetes Mellitus**

Incident Cases <sup>a</sup>	Hypertension			No Hypertension			Diabetes Mellitus			No Diabetes Mellitus		
	10y	15y	20y	10y	15y	20y	10y	15y	20y	10y	15y	20y
<b>Clinically Significant AS</b>												
Subdistr	1.68	2.93	3.33	1.02	1.69	2.50	1.11	2.48	3.35	1.42	2.33	2.93
Cum Inc,%	(1.18,2.19)	(2.27,3.59)	(2.63, 4.04)	(0.67,1.37)	(1.24,2.14)	(1.95,3.04)	(0.39,1.83)	(1.40,3.55)	(2.10,4.59)	(1.07,1.77)	(1.88,2.78)	(2.43,3.43)
Cause Spec	2.20	4.81	6.24	1.21	2.35	4.53	1.48	4.31	7.29	1.73	3.40	5.18
Cum Inc,%	(1.54,2.86)	(3.69,5.93)	(4.82,7.67)	(0.79,1.62)	(1.71,2.98)	(3.47,5.60)	(0.51,2.45)	(2.39,6.23)	(4.41,10.17)	(1.30,2.16)	(2.73,4.07)	(4.23,6.14)
<b>AS Procedure</b>												
Subdistr	1.16	1.72	1.80	0.54	0.80	0.99	0.86	1.24	1.61	0.87	1.30	1.39
Cum Inc,%	(0.74,1.58)	(1.21,2.23)	(1.28,2.33)	(0.28,0.80)	(0.48, 1.11)	(0.64, 1.34)	(0.23, 1.50)	(0.47, 2.00)	(0.74, 2.48)	(0.59, 1.14)	(0.96, 1.64)	(1.05, 1.74)
Cause Spec	1.49	2.67	2.93	0.63	1.06	1.65	1.10	1.85	3.13	1.05	1.85	2.15
Cum Inc,%	(0.94,2.03)	(1.84,3.49)	(2.03,3.83)	(0.33,0.93)	(1.01, 2.29)	(1.01, 2.29)	(0.28, 1.92)	(0.67, 3.04)	(1.27, 5.00)	(0.72, 1.39)	(1.36, 2.34)	(1.57, 2.72)
<b>Hospitalization for Severe AS</b>												
Subdistr	1.72	2.76	3.04	0.89	1.37	1.99	1.11	2.10	2.99	1.34	2.10	2.54
Cum Inc,%	(1.21,2.23)	(2.12,3.41)	(2.37,3.72)	(0.56, 1.22)	(0.96, 1.78)	(1.50, 2.48)	(0.39, 1.83)	(1.11, 3.09)	(1.81, 4.17)	(1.00, 1.69)	(1.67, 2.52)	(2.07, 3.00)
Cause Spec	2.25	4.46	5.48	1.04	1.86	3.60	1.48	3.59	6.79	1.64	3.03	4.40
Cum Inc,%	(1.58,2.93)	(3.38,5.53)	(4.17,6.79)	(0.66, 1.43)	(1.29, 2.42)	(2.64, 4.57)	(0.51, 2.45)	(1.85, 5.34)	(3.85, 9.73)	(1.22, 2.06)	(2.40, 3.66)	(3.52, 5.29)
<b>Moderate or Severe AS</b>												
Subdistr	2.66	4.20	5.05	1.79	3.10	4.42	2.35	3.97	5.47	2.25	3.62	4.69
Cum Inc,%	(2.03,3.29)	(3.41,4.99)	(4.18,5.91)	(1.32,2.25)	(2.49,3.71)	(3.70,5.15)	(1.31,3.40)	(2.62,5.32)	(3.90,7.05)	(1.81,2.69)	(3.07,4.08)	(4.06,5.32)
Cause Spec	3.39	6.54	9.45	2.09	4.34	7.93	2.91	6.16	11.38	2.72	5.24	8.34
Cum Inc,%	(2.58,4.20)	(5.27,7.81)	(7.70,11.20)	(1.54,2.63)	(3.47,5.21)	(6.55,9.31)	(1.61,4.21)	(4.00,8.32)	(7.83,14.93)	(2.19,3.26)	(4.42,6.07)	(7.14,9.54)
<b>Death</b>												
Cum Inc,%	39.94 (38.04, 41.84)	64.33 (62.47, 66.19)	82.62 (81.13, 84.10)	31.81 (30.19, 33.43)	54.08 (42.34, 55.81)	72.56 (71.01, 74.12)	39.86 (36.54, 43.17)	64.68 (61.44, 67.92)	80.86 (78.17, 83.54)	34.58 (33.18, 35.97)	57.81 (56.36, 59.26)	76.63 (75.38, 77.87)

<sup>a</sup>Values in parentheses are 95% confidence intervals.

AS = aortic stenosis; Caus Spec = cause specific; Cum Inc = cumulative incidence; Subdistr = subdistribution.

**Table S6. Cumulative Incidence of Probable or Definite Aortic Stenosis and Death by Hypercholesterolemia and Smoking Status**

Incident Cases <sup>a</sup>	Hypercholesterolemia			No Hypercholesterolemia			Current/Former Smoking			Never Smoking		
	10y	15y	20y	10y	15y	20y	10y	15y	20y	10y	15y	20y
<b><i>Clinically Significant AS</i></b>												
Subdistr Cum Inc, %	1.46 (1.02,1.90)	2.55 (1.97,3.12)	3.15 (2.51,3.79)	1.09 (0.70,1.49)	1.89 (1.37,2.40)	2.58 (1.97,3.18)	1.22 (0.83,1.61)	2.14 (1.62,2.65)	2.80 (2.21,3.39)	1.43 (0.97,1.89)	2.40 (1.81,2.99)	2.99 (2.33,3.65)
Cause Spec Cum Inc, %	1.75 (1.22,2.28)	3.64 (2.80,4.49)	5.30 (4.15,6.45)	1.39 (0.88,1.90)	2.95 (2.12,3.79)	5.24 (3.90,6.58)	1.57 (1.06,2.07)	3.45 (2.59,4.30)	5.62 (4.34,6.89)	1.69 (1.15,2.24)	3.33 (2.49,4.17)	5.01 (3.82,6.19)
<b><i>AS Procedure</i></b>												
Subdistr Cum Inc, %	0.91 (0.56,1.25)	1.32 (0.91,1.74)	1.50 (1.06,1.95)	0.68 (0.37,0.99)	1.02 (0.64,1.40)	1.14 (0.73,1.54)	0.92 (0.58,1.26)	1.28 (0.88,1.68)	1.48 (1.05,1.91)	0.69 (0.38,1.01)	1.12 (0.71,1.53)	1.20 (0.781,1.62)
Cause Spec Cum Inc, %	1.06 (0.65,1.47)	1.79 (1.21,2.37)	2.30 (1.56,3.04)	0.85 (0.46,1.25)	1.52 (0.93,2.11)	1.97 (1.19,2.76)	1.18 (0.74,1.62)	1.95 (1.322,2.59)	2.68 (1.81, 3.55)	0.80 (0.43,1.17)	1.49 (0.94,2.05)	1.75 (1.09, 2.40)
<b><i>Hospitalization for Severe AS</i></b>												
Subdistr Cum Inc, %	1.36 (0.94,1.78)	2.23 (1.69, 2.77)	2.79 (2.19,3.40)	1.05 (0.67,1.44)	1.66 (1.17, 2.15)	2.05 (1.51,2.59)	1.25 (0.85,1.64)	1.94 (1.45,2.43)	2.44 (1.89,2.99)	1.27 (0.84,1.71)	2.09 (1.54,2.64)	2.52 (1.923,1.13)
Cause Spec Cum Inc, %	1.62 (1.11,2.13)	3.14 (2.36,3.92)	4.72 (3.63,5.72)	1.35 (0.85,1.85)	2.55 (1.78, 3.32)	3.98 (2.80,5.16)	1.62 (1.10,2.14)	3.02 (2.23,3.81)	4.75 (3.57,5.93)	1.49 (0.98,2.00)	2.88 (2.10,3.66)	4.16 (3.08, 5.24)
<b><i>Moderate or Severe AS</i></b>												
Subdistr Cum Inc, %	2.10 (1.57,2.62)	3.71 (3.02,4.40)	4.84 (4.05,5.63)	2.27 (1.70,2.84)	3.49 (2.79,4.19)	4.64 (3.83,5.44)	2.02 (1.51,2.52)	3.50 (2.85,4.16)	4.57 (3.83,5.32)	2.40 (1.81,2.99)	3.72 (2.99,4.45)	4.91 (4.07,5.74)
Cause Spec Cum Inc, %	2.46 (1.84,3.08)	5.26 (4.26,6.27)	8.41 (6.95,9.87)	2.85 (2.13,3.57)	5.22 (4.14,6.30)	8.92 (7.24,10.60)	2.60 (1.95,3.25)	5.56 (4.49,6.63)	9.08 (7.49,10.67)	2.76 (2.08,3.44)	5.02 (4.01,6.03)	8.23 (6.72,9.73)
<b><i>Death</i></b>												
Cum Inc, %	32.12 (30.43, 33.81)	55.80 (54.01, 57.60)	75.36 (73.79, 76.92)	38.82 (36.98, 40.65)	61.29 (59.46, 63.13)	78.64 (77.09, 80.19)	39.17 (37.45, 40.89)	63.00 (61.30, 64.70)	80.54 (79.14, 81.94)	31.22 (29.45, 32.98)	53.87 (51.97, 55.77)	73.10 (71.40, 74.79)

<sup>a</sup>Values in parentheses are 95% confidence intervals.

AS = aortic stenosis; Caus Spec = cause specific; Cum Inc = cumulative incidence; Subdistr = subdistribution.



Table S7. Cumulative Incidence of Probable or Definite Aortic Stenosis by Chronic Kidney Disease

Incident Cases <sup>a</sup>	Chronic Kidney Disease			No Chronic Kidney Disease		
	10y	15y	20y	10y	15y	20y
<b><i>Clinically Significant AS</i></b>						
Subdistr Cum Inc, %	1.67 (1.09, 2.24)	2.39 (1.71, 3.08)	2.76 (2.03, 3.50)	1.15 (0.80, 1.50)	2.19 (1.72, 2.67)	2.97 (2.42, 3.52)
Cause Spec Cum Inc, %	2.21 (1.45, 2.98)	3.75 (2.64, 4.86)	5.12 (3.62, 6.61)	1.37 (0.95, 1.78)	3.17 (2.47, 3.87)	5.30 (4.25, 6.36)
<b><i>AS Procedure</i></b>						
Subdistr Cum Inc, %	0.78 (0.39, 1.17)	1.14 (0.67, 1.62)	1.20 (0.71, 1.68)	0.85 (0.55, 1.15)	1.23 (0.87, 1.59)	1.43 (1.04, 1.81)
Cause Spec Cum Inc, %	0.99 (0.48, 1.50)	1.71 (0.98, 2.45)	1.92 (1.08, 2.75)	1.00 (0.65, 1.36)	1.68 (1.18, 2.19)	2.27 (1.60, 2.94)
<b><i>Hospitalization for Severe AS</i></b>						
Subdistr Cum Inc, %	1.46 (0.92, 1.99)	2.08 (1.44, 2.72)	2.29 (1.62, 2.96)	1.18 (0.83, 1.52)	1.97 (1.52, 2.42)	2.58 (2.07, 3.10)
Cause Spec Cum Inc, %	1.96 (1.23, 2.69)	3.28 (2.24, 4.32)	4.11 (2.79, 5.43)	1.39 (0.97, 1.80)	2.77 (2.12, 3.42)	4.52 (3.54, 5.50)
<b><i>Moderate or Severe AS</i></b>						
Subdistr Cum Inc, %	2.36 (1.68, 3.04)	3.61 (2.78, 4.45)	4.57 (3.63, 5.51)	2.11 (1.65, 2.58)	3.60 (2.99, 4.20)	4.82 (4.12, 5.52)
Cause Spec Cum Inc, %	3.02 (2.14, 3.90)	5.73 (4.35, 7.11)	9.33 (7.21, 11.45)	2.49 (1.94, 3.04)	5.03 (4.17, 5.89)	8.34 (7.05, 9.62)
<b><i>Death</i></b>						
Cum Inc, %	44.38 (42.18, 46.57)	67.38 (65.31, 69.45)	82.59 (80.91, 84.27)	30.80 (29.32, 32.28)	54.09 (52.49, 55.69)	74.30 (72.89, 75.71)

<sup>a</sup>Values in parentheses are 95% confidence intervals.

AS = aortic stenosis; Caus Spec = cause specific; Cum Inc = cumulative incidence; Subdistr = subdistribution.

**Table S8. Incidence Rates of Probable or Definite Aortic Stenosis both Overall and by Sex, Race and Age Categories**

Incident Cases	Overall	Sex		Race		Age Categories		
		Men	Women	Non-black	Black	<75 yrs	75-84 yrs	≥85 yrs
<b><i>Clinically Significant AS</i></b>								
Events/Sample	186/5640	89/2391	97/3249	176/4905	10/735	125/3695	56/1729	5/216
IR, per 1000 py	2.48	3.16	2.07	2.66	1.11	2.23	3.19	3.60
95% CI	(2.02, 3.03)	(2.41, 4.14)	(1.54, 2.77)	(2.16, 3.28)	(0.44, 2.77)	(1.72, 2.87)	(2.28, 4.47)	(1.34, 9.68)
<b><i>AS Procedure</i></b>								
Events/Sample	82/5647	43/2392	39/3255	78/4911	4/736	61/3698	20/1731	1/218
IR, per 1000 py	1.09	1.52	0.83	1.18	0.44	1.08	1.13	0.72
95% CI	(0.76, 1.56)	(1.0, 2.32)	(0.46, 1.50)	(0.81, 1.71)	(0.11, 1.72)	(0.70, 1.67)	(0.58, 2.23)	(0.05, 10.32)
<b><i>Hospitalization for Severe AS</i></b>								
Events/Sample	157/5647	74/2392	83/3255	148/4911	9/736	104/3698	48/1731	5/218
IR, per 1000 py	2.09	2.63	1.77	2.24	1.00	1.85	2.73	3.58
95% CI	(1.62, 2.69)	(1.94, 3.56)	(1.18, 2.64)	(1.72, 2.91)	(0.36, 2.78)	(1.35, 2.54)	(1.75, 4.26)	(1.38, 9.31)
<b><i>Moderate or Severe AS</i></b>								
Events/Sample	302/5620	139/2380	163/3240	282/4887	20/733	193/3685	97/1720	12/215
IR, per 1000 py	4.05	4.99	3.50	4.30	2.23	3.46	5.59	8.71
95% CI	(3.37, 4.88)	(4.01, 6.19)	(2.61, 4.68)	(3.54, 5.23)	(1.24, 4.01)	(2.83, 4.23)	(4.30, 7.26)	(1.45, 52.15)
<b><i>Death</i></b>								
Events/Sample	5084/5778	2247/2438	2837/3340	4391/4949	693/829	3101/3760	1749/1783	234/235
IR, per 1000 py	65.69	77.56	58.58	65.04	70.08	53.67	96.48	156.26
95% CI	(63.38, 68.07)	(73.33, 82.02)	(56.04, 61.25)	(62.66, 67.51)	(62.78, 78.23)	(51.53, 55.91)	(90.88, 102.4)	(134.7, 181.3)

AS = aortic stenosis; CI = confidence interval; IR = incidence rate; py = person-years.

**Table S9. Incidence Rates of Possible, Probable or Definite AS both Overall and by Sex, Race and Age**

Incident Cases	Overall	Sex		Race		Age Categories		
		Men	Women	Non-black	Black	<75 yrs	75-84 yrs	≥85 yrs
<b><i>Clinically Significant AS</i></b>								
Events/Sample	245/5640	115/2391	130/3249	233/4905	12/735	158/3695	79/1729	8/216
IR, per 1000 py	3.26	4.09	2.77	3.53	1.33	2.81	4.51	5.77
95% CI	(2.66, 4.01)	(3.25, 5.14)	(1.98, 3.87)	(2.85, 4.36)	(0.59, 2.97)	(2.27, 3.48)	(3.43, 5.92)	(0.42, 80.11)
<b><i>Hospitalization for Severe AS</i></b>								
Events/Sample	216/5647	98/2392	118/3255	207/4911	9/736	140/3698	67/1731	9/218
IR, per 1000 py	2.88	3.48	2.51	3.13	1.00	2.49	3.82	6.46
95% CI	(2.26, 3.66)	(2.71, 4.47)	(1.69, 3.74)	(2.44, 4.02)	(0.36, 2.78)	(1.94, 3.20)	(2.69, 5.41)	(0.62, 67.18)
<b><i>Moderate or Severe AS</i></b>								
Events/Sample	363/5620	168/2380	195/3240	338/4887	25/733	233/3685	116/1720	14/215
IR, per 1000 py	4.88	6.04	4.19	5.17	2.79	4.18	6.70	10.19
95% CI	(4.16, 5.73)	(4.99, 7.31)	(3.26, 5.38)	(4.37, 6.11)	(1.67, 4.64)	(3.51, 4.98)	(5.31, 8.45)	(2.18, 47.62)

AS = aortic stenosis; CI = confidence interval; IR = incidence rate; py = person-years.