

Appendix A1 - Baseline characteristics of included studies - demographic characteristics

	Study	Publish (year)	Trial (study name)	Data Collection (year)	Total (n)	Follow-Up (year)	HF develop (n)	Incident Rate (1000 p-yr*)	Cumulative Incident rate (%)	Age (±SD)	Gender (%male)
1	Ho KK et al [23]	1993		1948-1988	9405 †	40‡	652‡	1.85			
	Kannel et al[24]	1999	Framingham and offspring (US)		15267 pc*‡	38‡	486‡				
	Ho J et al[25]	2013		1981-2008	6340	8	512	5	8.1%	60±12	46%
2	Butler et al[26] Kalogeropoulos et al[17]	2008 2009	Health ABC study (US)	1997-2004	2934	7	258	13.6	8.8%	74±2.9	48%
3	He et al[15]	2001	NHANES (US)	1971-1992	13643	19	1382		10.1%	50±15	41%
4	Agarwal et al[27]	2012	ARIC (US)	1987-2005	13555	16	1487		11.0%	54±5.8	45%
5	Goyal et al[28]	2010	Million P-Yr *(US)	2000-2005	359947	5	4001	3.96	1.1%	38±14	47%
6	Bahrami et al[29] Bahrami et al[30]	2008 2008	MESA (US)	2000-2006	6814	4	79	3.1	1.2%	65±0.7	47%
7	Gottdiener et al[16] Mujib et al [21]	2000 2010	Cardio Vascular Health (US)	1989-1996	5625	12	597	19.3	10.6%	73±4.5	42%
8	Chen et al[31]	1999	EPESE (US)	1982-1992	1749	8	173	12.5	9.9%	74±6.8	41%
9	Bibbins-Domingo et al[32]	2009	CARDIA (US)	1985-2006	5115	20	27		0.5%	24±3.5	45%
10	Ingelsson et al[33]	2005	ULSAM (Sweden)	1970-2001	2321	29	259	4.5	11.2%	50±0.0	100%
11	Wang et al[34]	2010	Kuopio (Finland)	1986-2006	1032	21	303		29.4%	69±2.8	38%
12	Aronow et al[35]	1999	Mt Sinai (US)	N/A	2902	4	794		27.4%	81±8.0	32%
13	Smith et al[36]	2010	MDCS (Sweden)	1991-	5187	14	112		2.2%	58±5.9	41%
14	Kenchaiah et al[37]	2009	Physician's heart (US)	1982-2007	21094	21	1109	2.57	5.3%	53±9.4	100%
15	Brouwers et al[38]	2013	Prevend (Netherlands)	1997-2010	8592	12	374		4.4%	49±12	50%
	Sum	1993-2013	15 studies	1967-2007	456850	198	11467				
	Mean (Weighted)				30457	7	3323	3.75	0.97%	42	49%
	SD (Weighted)					1.0	811	1.07	0.11%	12.6	9%
	Maximum				359947	29	4001	19.3	29.36%	81	100%
	Minimum				1032	4	27	2.57	0.53%	24	32%

*pe (person exam); p-yr (person year); ‡ duplicated counts from a single study, not included in counts for total and cumulated incidence.

FHS (Framingham Heart Study); HABC (Health Aging and Body Composite Study); NHANES (National Health Nutrition Examination Survey); ARIC (The Atherosclerosis Risk in Communities); Million P-Y (One Million Person-Year study); MESA (Multi-Ethnic Study of Atherosclerosis); CVH (Cardio Vascular Health study); EPESE (Established Population for Epidemiologic Studies of the Elderly program); CARDIA (Coronary Artery Risk Development in Young Adults); ULSAM (Uppsala Longitudinal Study of Adult men); Kuopio (Kuopio Finland study); Mt Sinai (Study at Mt Sinai); MDCS (the Malmo diet and Cancer Study in Swedish people); Physician Heart (the Physician heart study); Prevend (Prevention of Renal and Vascular End-stage Disease)

Appendix A2 - Baseline characteristics of included studies - Risk prevalence

Author(s)	% White	% >Hi/Sc*	% F/Hx*	% Smoke	% Alcohol	BMI (mean)	SBP (mean)	DBP (mean)	% Inactive	% DM	% CAD	% LVH	% HTN	% VHD	% Stroke or TIA	% Abn ECG	Heart rate (mean)	% COPD	% AF	% CKD	Total CHOL	
Ho KK et al ; [23]																						
Kannel et al;[24]																						
Ho J et al[25]	100%			22%		27±4	132	77±11		7%	8%	8%	46%	1%	3%	3%	65		2%		213	
Butler et al; [26] Kalogeropoulos et al[17]	59%	89%		56%		27±5	136	71±12		15%	17%	12%	43%		7%		65				203	
He et al[15]	85%	56%		35%	25%	26±5	134		44%	4%	5%		28%	5%							222	
Agarwal et [27]al[27]	74%			25%		28±5	120			10%	4%	2%		1%		3%	67	8%				
Goyal et al[28]										3%	1%		12%	1%					0%			
Bahrami et al[29] Bahrami et al[30]	39%			49%		28±0.0	127	72±0.2		14%		10%	48%								194	
Gottdiener et al[16] Mujib et al [21]	85%	71%		54%			136	71±11		17%			58%		5%	15%		25%	2%		211.9	
Chen et al[31]	80%	48%		78%						11%			54%		4%							
Bibbins-D et al[32]	48%	60%	12%	31%	12%	25±5	110	69±9		2%		6%	3%							4%		
Ingelsson et al[33]				51%		25±3				6%	0%	2%	43%									
Wang et al[34]				29%	30%	27±4	157	82±14	25%	17%	7%	31%	26%								254	
Aronow et al[35]	67%									25%	44%		46%									
Smith et al[36]				27%		26±4	141	87±9		8%	2%		17%						1%			
Kenchaiyah et al et al[37]				48%	25%	25±1	126	79±7	14%	3%	9%		24%									
Brouwers et al[38]	95%			38%		26±4	128	74±10		4%	6%		32%				69		1%	6%	199	
Sum																						
Mean (Weighted)	64%			39%		26	128	76	25.5	4%	2.23%	6%	16%	1%	5%	5.8%	67	13.1%	0.4%	5.2%	210	
SD (Weighted)	5.8%			2.70%		3	16	8	8.1%	1%	0.23%	1%	3%	0.2%	0.6%	1.4%	10	0.9%	0.1%	1.9%	20	
Maximum	100%	89%	12%	78%	30%	28	157	87	44%	25%	44%	31%	58%	5%	7%	15%	69	25%	2%	6%	254	
Minimum	39%	48%	12%	22%	12%	25	110	69	14%	2%	0.3%	1.5%	3.0%	0.5%	2.7%	2.7%	65	8.4%	0.3%	3.5%	194	

*Hi/Sc (high school); F/Hx (family history of cardiac disease); BMI (Body Mass Index); DM (Diabetes Mellitus); CAD (Coronary Artery Disease); LVH (Left Ventricular Hypertrophy); HTN (Hypertension); VHD (Valvular Heart Disease); TIA (Transient Ischaemic Attack); COPD (Chronic Obstructive Pulmonary Disease); AF (Atrial Fibrillation); CKD (Chronic Kidney Disease); CHOL (cholesterol)

Appendix B - Heterogeneity of risk variables reported in studies

Variables	Frequency (n)	(%)	FHS	Health ABC	NHANES	ARIC	Million P-Y	MESA	CVH	EPESE	CARDIA	ULSAM	Kuopio	Mt Sinai	MDCS	Physician Heart	PREVEND
Hypertension	14	93%	+	+	+	+	+	+	+	+	+	+	+	+	+		+
Diabetes	13	87%	+	+	+	+	+	+	+	+	+	+	+	+	+		+
Age	11	73%	+	+		+	+	+	+	+	+			+	+		+
Male Gender	11	73%	+		+	+	+	+	+	+	+			+	+		+
Obesity	10	67%	+		+	+				+	+	+	+		+	+	+
Smoking	10	67%	+	+	+	+		+	+		+	+			+		+
CAD	10	67%	+	+	+	+	+		+			+		+	+		+
Dyslipidemia	8	53%	+		+	+		+			+	+	+				+
LVH	7	47%	+	+		+		+	+		+	+					
Black Race	6	40%			+	+		+	+		+			+			
Fasting Glucose	5	33%		+		+			+				+				+
Valvular Disease	4	27%	+		+	+	+										
Atrial Fibrillation	4	27%	+				+		+								+
Abnormal ECG	3	20%	+			+			+								
Heart Rate	3	20%	+	+		+											
Excessive Alcohol	3	20%			+						+						
CKD	3	20%		+							+						+
NT-proBNP	3	20%				+									+		+
C-Reactive Protein	3	20%				+			+								+
Albumin	3	20%		+		+			+								
Creatinine	3	20%		+		+			+								
Stroke	2	13%							+						+		
Family History	2	13%									+						
Education	2	13%			+						+						
COPD	2	13%				+			+								
LVEF (echo)	2	13%							+		+						
Physical Inactive	1	7%			+												

CAD (Coronary Artery Disease); LVH (Left Ventricular Hypertrophy); AF (Atrial Fibrillation); VHD (Valvular Heart Disease); COPD (Chronic Obstructive Pulmonary Disease); CKD (Chronic Kidney Disease)
FHS (Framingham Heart Study); HABC (Health Aging and Body Composite Study); NHANES (National Health Nutrition Examination Survey); ARIC (The Atherosclerosis Risk in Communities); Million P-Y (One Million Person-Year study); MESA (Multi-Ethnic Study of Atherosclerosis); CVH (Cardio Vascular Health study); EPESE (Established Population for Epidemiologic Studies of the Elderly program); CARDIA (Coronary Artery Risk Development in Young Adults); ULSAM (Uppsala Longitudinal Study of Adult men); Kuopio (Kuopio Finland study); Mt Sinai (Study at Mt Sinai); MDCS (the Malmo diet and Cancer Study in Swedish people); Physician Heart (the Physician heart study); Prevend (Prevention of Renal and Vascular End-stage Disease)

Appendix C - Heterogeneity of risk variables used for adjusted analysis

	Author	Study (Trial)	Risk ratio	Stats Model used	Age¶	Gender¶	Smoking¶	BMI ¶	DM ¶	CAD ¶	LV H ¶	HTN ¶	VH D ¶	H R ¶	A F ¶	
	Ho KK[23]	FHS	RR	CPH	+											
1	Kannel[24]	FHS	OR	PLR	+	+	+	+	+	+	+	+	+	+		
	Ho J#[25]	FHS	HR	CPH	+	+	+	+	+	+	+	+	+	+	+	LBBB; HDL; MI
	Butler[26]	Health ABC	HR	CPH	+		+		+	+	+	+		+		creatinine
2	Kalogeropoulos[17]	Health ABC	RR	MH			+		+	+	+	+		+		race
3	He#[15]	NHANES	RR	CPH	+		+	+	+	+		+	+			education, alcohol, low physical activity, cholesterol,
4	Agarwal[27]	ARIC	HR	CPH	+	+										
5	Goyal[28]	Million P-Y	HR	CPH	+	+			+	+		+	+		+	
6	Bahrami[29]	MESA	HR	CPH	+	+	+	+	+		+	+				
	Gottdiener#[16]	CVH	RR	CPH	+	+		+	+	+	+	+				
7	Mujib[21]	CVH	HR	CPH	+	+	+		+	+	+	+			+	race, stroke, COPD and peripheral arterial disease,
8	Chen YT[31]	EPESE	HR	CPH	+	+		+	+	+		+				
9	Bibbins-D[32]	CARDIA	HR	CPH				+				+				Cholesterol, CKD
10	Ingelsson#[33]	ULSAM	HR	CPH			+	+	+	+	+	+				cholesterol
11	Wang J[34]	Kuopio	HR	CPH	+	+	+		+			+				low physical activity, alcohol cholesterol
12	Aronow[35]	Mt Sinai	HR	CPH	+	+			+	+		+				
13	Smith JG#[36]	MDCS	HR	CPH	+	+	+	+	+	+		+				cholesterol, BNP, CRP
14	Kenchaiah[37]	Physician Heart	HR	CPH	+		+			+						Alcohol, FHx and medication
15	Brouwers#[38]	Prevend	HR	CPH	+	+	+	+	+	+		+			+	Cystatine, UAE, CRP, NT-proBNP, hs-TnT

¶ Variables used for mutually adjusted risk calculation; # Studies included for mutually adjusted risk calculation.

RF (Risk Factor); HR (Hazard Ratio); OR (Odds Ratio); RR (Relative Risk); FHS (Framingham Heart Study); HABC (Health Aging and Body Composite Study); NHANES (National Health Nutrition Examination Survey); ARIC (The Atherosclerosis Risk in Communities); Million P-Y (One Million Person-Year study); MESA (Multi-Ethnic Study of Atherosclerosis); CVH (Cardio Vascular Health study); EPESE (Established Population for Epidemiologic Studies of the Elderly program); CARDIA (Coronary Artery Risk Development in Young Adults); ULSAM (Uppsala Longitudinal Study of Adult men); Kuopio (Kuopio Finland study); Mt Sinai (Study at Mt Sinai); MDCS (the Malmö diet and Cancer Study in Swedish people); Physician Heart (the Physician heart study); Prevend (Prevention of Renal and Vascular End-stage Disease)

LBBB (left bundle branch block); HDL (high density lipoprotein); MI (myocardial infarction); CKD (chronic kidney disease); BNP (brain natriuretic peptide); CRP (c-reactive protein); FHx (family history); UAE (urinary albumin excretion); hs-TnT (highly sensitive troponin T).

Appendix D- Newcastle–Ottawa scale for included studies

	Author	Study (Trial)	#1_Selection _Representa tiveness of exposed	#2_Sellectio n_of Non- exposed	#3_Selection _Ascertainm ent of exposure	#4_Outcome demonstrati on at start (★=yes)	#5_Compara bility	#6_Assessm ent of Outcome	#7_Follow- up Long enough for outcome to occur	#8_Follow- up adequacy	Tot al ★
1	Ho KK[23] Kannel[24] Ho J[25]	Framingham study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
2	Butler[26] Kalogeropoulos[17]	Health ABC study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	7
3	He[15]	NHANES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
4	Agarwal[27]	ARIC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
5	Goyal[28]	Million P-Y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	7
6	Bahrami[29] Bahrami[30]	MESA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	8
7	Gottdiener[16] Mujib[21]	Cardio Vascular Health		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
8	Chen YT[31]	EPESE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	7
9	Bibbins-D[32]	CARDIA		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
10	Ingelsson[33]	ULSAM		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
11	Wang J[34]	Kuopio		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
12	Aronow[35]	Mt Sinai		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	6
13	Smith JG[36]	MDCS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
14	Kenchaiah[37]	Physician's heart		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
15	Brouwers[3838]	Prevend	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8

Selection: No ★ is given to cohort with men or women only, or with an age selection range;

Comparability: ★ if risk adjusted for confounders, or with subgroup analysis of age or gender; ☆☆ if adjusted for interim myocardial infarction

Follow-up length ★ only if ≥ 5 years

FHS (Framingham Heart Study); HABC (Health Aging and Body Composite Study); NHANES (National Health Nutrition Examination Survey); ARIC (The Atherosclerosis Risk in Communities); Million P-Y (One Million Person-Year study); MESA (Multi-Ethnic Study of Atherosclerosis); CVH (Cardio Vascular Health study); EPESE (Established Population for Epidemiologic Studies of the Elderly program); CARDIA (Coronary Artery Risk Development in Young Adults); ULSAM (Uppsala Longitudinal Study of Adult men); Kuopio (Kuopio Finland study); Mt Sinai (study at Mt Sinai); MDCS (the Malmo diet and Cancer Study in Swedish people); Physician's heart (the Physician heart study); Prevend (Prevention of Renal and Vascular End-stage Disease)

Appendix E Reasons for excluded Studies

Reasons for excluded Studies after full text review (n=83+9=92)	
Author, year	Reasons for exclusion
1 Eriksson, 1989 (Eur Heart J)	Risk estimates not meeting inclusion criteria
2 Wilhelmsen, 2001 (J Intern Med)	Risk estimates not meeting inclusion criteria
3 Ansari,2003 (Am Heart J)	risk for CV hospitalization
4 Kardys, 2006 (Am Heart J)	Risk estimates not meeting inclusion criteria
5 Gurwitz, 2013 (Am J Med)	Risk estimates for HFpEF
6 Wannamethee, 2011 (J Am Coll)	Risk estimate not meeting inclusion criteria
7 Baena-Diez, 2010 (Clinical Cardiology)	Risk estimates not meeting inclusion criteria
8 Britton, 2009 (Eur J Heart Fail)	Risk estimates not meeting inclusion criteria
9 Dunlay,2009 (Am J Med)	case matched study
10 Gupta, 2010 (Am Heart J)	No risk effect estimates
11 Kenchaiah, 2002 (N Engl J Med)	Duplication of study population (FHS)
12 Ebong, 2013 (Obesity)	Duplication of study population (MESA)
13 Vasan, 2003 (Circulation)	Duplication of study population (FHS)
14 Cesari, 2003 (Circulation)	Duplication of study population (HABC)
15 Ingelsson, 2006	Duplication of study population (ULSAM)
16 Bibbins, 2004 (Circulation)	Not an unselected population
17 Azad, 2011 (Journal of geriatric cardiology)	review article
18 Carr, 2005 (Am J Cardiol)	Not an unselected population
19 De Simone, 2013 (Nutr Metab Cardiovasc Dis)	Not an unselected population
20 Senni, 1999 (Arch Intern Med)	risk for mortality
21 Owan, 2006 (N Engl J Med)	risk for mortality
22 Adlam 2005 (European Heart Journal)	Not reporting characteristics of inclusion
23 Arnlov, 2004 (European heart Journal)	Not reporting characteristics of inclusion
24 Arnold, 2005 (J Am Geriatr Soc)	Not reporting characteristics of inclusion
25 Aurigemma, 2001 (JACC)	Not reporting characteristics of inclusion
26 Babb, 2009 (AORN J)	review article
27 Barnard, 2005 (Current Cardiology reports)	review article
28 Belin, 2011 (Am J Clin Nutr)	Not reporting characteristics of inclusion
29 Bertoni, 2004 (Diabetes care)	Diabetic population
30 Bibbins, 2009 (N Engl J Med)	Not reporting characteristics of inclusion
31 Bleumink, 2004 (European Heart J)	No risk effect estimates
32 Brenyo, 2011 (Cardiol J)	Not reporting characteristics of inclusion
33 Bruch, 2006 (J Am Soc Echo)	echo and bnp for CV events
34 Bui, 2011 (Nature reviews)	review article
35 Cabrera, 2012 (Clin Interv Aging)	CV events
36 Campbell, 2003 (MJA)	review article
37 Castagno, 2012 (JACC)	Population not meeting inclusion
38 Chae,2003 (The Am J of Cardiology)	Risk estimat not meeting inclusion
39 Cowie, 1997 (European Heart Journal)	review article
40 Cowie, 1999 (European Heart Journal)	No risk effect estimates
41 Curtis, 2008 (Archives of internal Med)	No risk effect estimates
42 De Simone, 2007 (Diabetes care)	Population not meeting inclusion
43 Desimone, 2010 (Journal of Hypertension)	Population not meeting inclusion
44 Deswal, 2011 (JACC)	review article
45 Dhingra, 2010 (Arterioscler Throm Vasc Biol)	Not reporting characteristics of inclusion
46 Ekundayo, 2009 (Hypertension)	Not reporting characteristics of inclusion
47 Filippatos, 2011 (Eur J of HF)	Not reporting characteristics of inclusion
48 Folsom, 2009 (Circulation, heart failure)	Not reporting characteristics of inclusion
49 Giamouzi, 2011 (J Cardiac Fail)	review article
50 Haass, 2011 (Circulation, heart failure)	Not reporting characteristics of inclusion
51 Hagege, 2010 (Archives of Cardiovascular Dis)	Population not meeting inclusion
52 Hoffman, 1994 (Arch Intern med)	Population not meeting inclusion
53 Horne, 2010 (European Journal of heart failure)	Risk estimate not meeting inclusion criteria
54 Hsich, 2011 (JACC)	Editorial comment
55 Jain, 2011 (Circ cardiovasc Imaging)	Risk estimate for CV disease
56 Kaczorowski, 2011 (BMJ)	Not reporting characteristics of inclusion

57	Kalogeropoulos, 2010 (Circ Heart Fail)	Not reporting characteristics of inclusion
58	Kannel, 2000 (Heart Failure Reviews)	review article
59	Kawut, 2012 (Circulation)	risk estimates for HF or death
60	Ketchum, 2011 (Congestive heart failure)	review article
61	Khatibzadeh, 2012 (International journal of cardiology)	review article
62	Krishnan, 2009 (Circ Heart Fail)	Not reporting characteristics of inclusion
63	Lam, 2011 (Circulation)	duplication of population (FHS)
64	Laugsand, 2013 (European Heart journal)	Not reporting characteristics of inclusion
65	Leung, 2009 (Journal of cardiac failure)	Diabetic population
66	Liszka, 2005 (Ann Fam Med)	Duplication of study population (NHANESI)
67	Lloyd-Jones, 2002 (Circulation)	Not reporting characteristics of inclusion
68	Loehr, 2008 (Am J Cardiol)	Duplication of study population (ARIC)
69	Luepker, 1990 (American J of Epidemiology)	Not reporting characteristics of inclusion
70	Marwick, 2006 (JACC)	review article
71	Mostofsky, 2012 (Circulation. Heart failure)	review article
72	Mujib, 2012 (Ann Med)	Not reporting characteristics of inclusion
73	Okin, 2011 (Circ Cardiovasc Qual Outcomes)	Population not meeting inclusion
74	Okin, 2012 (Am J Cardiol)	Risk estimate not meeting inclusion criteria
75	Palazzuoli, 2011 (Intern Emerg Med)	review article
76	Pfister, 2012 (European Heart Journal)	Not reporting characteristics of inclusion
77	Redfield, 2012 (Heart failure clinics)	review article
78	Rod, 2011 (Am J epidemiol)	Risk estimate not meeting inclusion criteria
79	Roger, 2004 (JAMA)	Risk estimate not meeting inclusion criteria
80	Roy, 2011 (Am J Cardiol)	Propensity matched study in diabetes
81	Sanderson, 1995 (International Journal of Cardiology)	Risk estimates not meeting inclusion criteria
82	Schnabel, 2013 (European Journal of Heart Failure)	Population not meeting inclusion
83	Senni, 1998 (Circulation)	Risk estimates not meeting inclusion criteria
84	shah, 2011 (J Am Coll Cardiol)	Risk estimates not meeting inclusion criteria
85	Silver, 2003 (Congestive heart Failure)	Not reporting characteristics of inclusion
86	Sprafka, 1990 (Am J Epidemiol)	Risk estimates not meeting inclusion criteria
87	Suzuki, 2008 (Circulation. Heart Failure)	duplication of population (CVH)
88	Varadarajan, 2006 (J Am Soc Echocardiogr)	Population not meeting inclusion
89	Victor, 2004 (Am J Cardiol)	Risk estimates not meeting inclusion criteria
90	Wang, 2011 (Am J Epidemiol)	Not reporting characteristics of inclusion
91	Wang, 2012 (Circulation)	duplication of study population (FHS)
92	Yan, 2011 (JACC)	Risk estimates not meeting inclusion criteria