

Appendix 4 (as supplied by authors): Study characteristics of primary publications included in the review.

	Main study/ database	City, province	Study design	Study duration	No. of people	Men/ women, %	Mean age, yr	No. of South Asians	South Asian, %	Outcomes measured	Study Score
Albarak et al, 2012 ²⁷	Hospital Discharge Abstract Database	British Columbia	Retrospective cohort	8 yr	7 135	South Asians: 90/10 White People: 82/18	N/A	487	6.8	Diabetes prevalence, hypertension prevalence, 30-day mortality after AMI, long-term mortality after AMI, recurrent AMI	4
Anand et al, 2000 ³	SHARE	Hamilton Toronto Edmonton	Cross-sectional Random sampling	N/A	985	South Asians: 55/45, White people: 48/52	South Asians: 49.4, White people: 51.2	342	34.7	CVD prevalence, SBP,DBP,BMI, WHR, TC, LDL-C, HDL-C, TG, fasting glucose, Apo A1 and B levels, homocysteine, lipoprotein (a), fibrinogen	6
Anand et al, 2004 ⁴⁷	SHARE/ SHARE-AP	Hamilton Toronto Edmonton Oshweken	Cross-sectional Random sampling	N/A	1 250	48.9/ 51.1	50.4	323	25.9	CRP	5
Anand et al, 2006 ⁴⁸	SHARE/ SHARE-AP	Toronto Edmonton Hamilton Oshweken	Cross-sectional Random sampling	N/A	1 227	White people: 48.2/ 51.8 South Asians: 55/45	White people: 51.3, South Asians: 49.4	342	27.9	Socioeconomic status	5
Anand et al, 2011 ²⁰	mol- SHARE	Hamilton	Cross-sectional	2005– 2009 (4 yr)	108	49/51	35	56	52	Fasting insulin, HDL-C, adipocyte area, lean muscle mass, liver fat, visceral fat, superficial subcutaneous fat, deep subcutaneous fat	4
Anand et al, 1997 ³⁶	SHARE- pilot	Hamilton	Cross-sectional Random sampling	N/A	51	N/A	N/A	31	61.8	Impaired glucose tolerance, diabetes,	3

Appendix to: Rana A, de Souza RJ, Kandasamy S, Lear SA, Anand SS. Cardiovascular risk among South Asians living in Canada: a systematic review. *CMAJ Open* 2014. DOI: 10.9778/cmajo.20130064.

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										hypertension and smoking prevalence	
Bailey et al, 2011 ⁴⁷	APPROACH	Alberta	Retrospective database review	1995–2006 (11 yr)	19 569	South Asians: 78/22 White people: 74/22	South Asians: 22.1 White people: 26.0	635	3.2	Health status outcomes	5
Banerjee et al, 2007 ²⁸	Hospital rehabilitation records	Toronto	Retrospective database review	2 year	1 200	South Asians: 84.5/ 15.5 White people: 73.4/ 26.6	South Asians: 56.2 White people: 59.0	220	18.3	Cardiac rehabilitation program participation, prevalence of smoking, diabetes, hypertension	3
Banerjee et al, 2010 ⁵³	N/A	Toronto	Qualitative study	N/A	16	81.2/ 18.8	57.4	16	100	Barriers to cardiac rehabilitation participation	2/4
Booth et al, 2012 ⁵²	Administrative database	Toronto	Retrospective cohort	N/A	1 239 262	50/50	N/A	N/A	N/A	Physical activity: walkability score	3
Brisler et al, 2007 ⁵⁸	Chart Review	Toronto	Retrospective cohort	1994–2003	6 191	South Asians: 22/78 White people: 22/78	South Asians: 60.8 White people: 63.6	1 163	19	CABG utilization, post CABG mortality	4
Chiu et al, 2010 ⁴	NPHS 1996 & CCHS cycles 1.1 (2001), 2.1 (2003), and 3.1 (2005)	Ontario	Database review	1996–2007 (11 yr)	163 797	49.1/50.9	42.3	3 364	2.1	Diet, physical activity, prevalence of CVD, smoking, diabetes, obesity, hypertension, psychosocial stress	3
Chiu et al, 2011 ³⁷	NPHS 1996 & CCHS cycles 1.1 (2001), 2.1 (2003), and 3.1 (2005)	Ontario	Database review	12.8 year	59 824	White people: 49.1/ 50.9 South Asians: 56.8/ 43.2	White people: 48.5 South Asians: 43.7	1 001	1.7	Diabetes incidence rates, median age at diagnosis	3
Chiu et al, 2012 ²	NPHS 1996 & CCHS Cycles 1.1 (2001), 2.1 (2003), 3.1 (2005), and	Ontario	Retrospective cohort	N/A	163 797	49.1/ 50.9	42	3 364	2.1	Diet	3

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	4.1 (2007)										
Foulds et al, 2012 ¹⁴	N/A	British Columbia	Cross-sectional	N/A	5 335	Aboriginal: 25/75 White people: 40/60 East Asian: 40/60 South Asians: 51/49	Aboriginal M: 43 Aboriginal W: 41 White people M: 51.7 White people W: 49.8 East Asian M: 45.6 East Asian W: 45.3 South Asians M: 45.6 South Asians W: 43.1	228	4.3	BMI, WC, SBP, DBP, TC, HDL, LDL, TC:HDL, smoking, physical activity, CVD, hypertension and diabetes prevalence	3
Garcia-Bailo et al, 2012 ⁴⁵	TNH	Toronto	Cross-sectional	N/A	1 090	30/90	M: 22.9 W: 22.6	113	10	Apo A1, Apo B	3
Garcia-Bailo et al, 2013 ¹⁹	TNH	Toronto	Cross-sectional	N/A	1 384	White people: 31/69 South Asians: 38/62 East Asian: 28/72	White people: 23.2 South Asians: 22.2 East Asian: 22.1	164	11.8	SBP, DBP, fasting insulin, fasting glucose, TC, HDL, LDL, TC:HDL, BMI, waist circumference	3
Gasevic et al, 2013 ⁵⁵	Hospital Administrative Data & BCCR	British Columbia	Retrospective cohort	Apr. 1999– Mar. 2003	4 729	White people: 73/27 South Asians: 80/20 Chinese: 75/25	N/A	371	7.8	Short and long-term mortality	4
Gasevic et al, 2012 ⁴²	M-CHAT	Vancouver	Cross-sectional Targeted ethnic group sampling	N/A	784	White people: 50/50 South Asians: 50/50	White people: 50 South Asians: 45	199	2500	HOMA-IR	4
Grewal et al, 2010 ⁵⁴	N/A	Ontario	Qualitative study	N/A	16	94/6	62.6	16	100	Cardiac rehabilitation referral	1/4
Gupta et al, 2012 ²⁹	ACTFAST	Montreal	Case-Control	N/A	2 042	White people: 67/33 South Asians: 77/23	White people: 64 South Asians: 59	64	3.1	Prevalence of diabetes and smoking	5

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Gupta et al, 2002 ⁹	Hospital chart review	Brampton Scarborough	Retrospective chart review	1994–1999 (5 yr)	1 106	N/A	South Asians: 62.6 Non–South Asians: 63.0	553	50	Acute MI, diabetes prevalence, access to diagnostic testing	4
Jones et al, 2012 ³⁴	N/A	London	Retrospective Cohort	Jan. 2003–Sept. 2008	9 771	White people: 72/28 South Asians: 79/21	White people: 64.7 South Asians: 59.7	1 805	18.5	Short-term mortality, diabetes, hypertension, smoking	4
Kaul et al, 2011 ⁴⁴	Alberta Health and Wellness databases	Alberta	Retrospective cohort	1999–2005	54 208	South Asians: 47.2/ 52.8 White people: 50/50	White people: 76.5 South Asians: 72.2	377	0.7	Diabetes, hypertension, post-MI mortality rates	3
Khan et al, 2010 ⁷	Hospital Administrative data	British Columbia Alberta	Retrospective chart review	1994–2003	41 615	67/33	N/A	2 190	5.4	Smoking prevalence, revascularization rates	5
Khan et al, 2009 ⁵¹	N/A	Ontario	Retrospective cohort	N/A	2 472	South Asians: 78.4/ 21.6 White people: 62.9/ 37.1	South Asians: 61.7 White people: 64.4	171	6.7	Physical activity environment	3
Khan et al, 2011 ³⁸	Hospital discharge data and physician claims	British Columbia Alberta	Database review	BC: 1993–1996 Alberta: 1994–2007	276 237	N/A		15 066	5.4	Diabetes incidence rates	5
King, 2009 ⁸	Hospital Discharge Abstract Database	Calgary	Chart review	2002–2006	406					BMI, diabetes, smoking rates	4
Kohli et al, 2013 ²⁵	M-CHAT	Vancouver	Cross-sectional	N/A	822	White people: 50/50 Aboriginal: 48/52 Chinese: 46/54 South Asians: 50/50	White people: 50.3 Aboriginal: 45 Chinese: 47.9 South Asians: 45	207	25	Fat distribution	4
Kohli et al, 2010 ²⁶	M-CHAT	Vancouver	Cross-sectional Targeted ethnic group sampling		408					Abdominal fat	5
Lear et al, 2003 ¹⁸	M-CHAT	British Columbia	Cross-sectional Targeted	N/A	69		White people: 36.5	34	49	BMI, WHR, TC, LDL-C, HDL-C,	2

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			ethnic group sampling				South Asians: 38.2			TG, fasting glucose, fasting insulin, SBP, DBP, CRP	
Lear et al, 2007 ³⁰	M-CHAT	Vancouver	Cross-sectional Targeted ethnic group sampling	N/A	822		White people: 50.3 South Asians: 45.0	207	25.1	Diet, physical activity, smoking, diabetes prevalence	5
Lear et al, 2009 ¹⁷	M-CHAT	British Columbia	Cross-sectional Targeted ethnic group sampling	N/A	828			208	25.1	BMI, waist, WHR, body fat %	5
Lear et al, 2012 ²⁴	M-CHAT	Vancouver	Cross-sectional Targeted ethnic group sampling	N/A	408	50/50	White people Men: 49.8 White people Women: 50.7 South Asians Men: 44.6 South Asians Women: 45.4	207	51	LDL-C, HDL-C, TC, TC:HDL	5
Liu et al, 2010 ³⁵	CCHS 2000, 2003 and 2005	Canada	Retrospective cohort	3 cycles of CCHS; 2000, 2003, 2005	37 154	South Asians: 52/48 White people: 48/52		4 270	11	Diabetes, Hypertension, Smoking, BMI	4
He et al, 2010 ⁴¹		Toronto London Cambridge	Cross-sectional Convenience sampling	2003–2006 (3 yr)	354	South Asians: 43/57 White people: 49/51	N/A	113	32	BMI, waist, WHR, body fat %, SBP, DBP, TC, HDL-C, LDL-C, fasting glucose, fasting insulin, TG, hypertension, impaired fasting glucose, HOMA-IR	4
Merchant, 2005 ⁴⁹	SHARE	Hamilton	Cross-sectional Random sampling	N/A	617	47/53	47.72	173	28	Physical activity, diet	5
Nijjar et al, 2010 ¹³	Hospital Discharge Database	British Columbia	Retrospective chart review	1995–2002 (7 yr)	2 168 715 (34848 AMI cases)	67/33	N/A	87 965	4.1	AMI hospitalization rates	4
O'Laughlin et al,		Montreal	Retrospective	1993–1997 (4)	2 033	42/58	39.7	42	3	Smoking, obesity, physical inactivity,	2

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2007 ²¹				yr)						poor diet	
Prasad et al., 2011 ⁴⁶		Toronto	Retrospective Cohort	1998–2009 (11 yr)	864	South Asians: 106/11. White people: 346/204	South Asians: 48.4, White people: 47.1	139	16.1	Smoking status	4
Quan et al, 2010 ³¹	APPROACH and BCCR	Alberta British Columbia	Database review	1995–2004 (9 yr)	81 848	South Asians: 77.4/22.3, White people: 75/25	N/A	3 061	3.7	Revascularization, 30-day mortality	5
Razak et al, 2007 ³⁹	SHARE	Toronto Edmonton Hamilton Oshweken	Cross-sectional Random sampling	N/A	1 078	South Asians: 55/45, White people: 48/52	South Asians: 49, White people: 51	289	27	Obesity cut-offs	6
Razak et al, 2005 ²²	SHARE	Toronto Edmonton Hamilton Oshweken	Cross-sectional Random sampling	N/A	1 251	South Asians: 54/46, White people: 48/52	South Asians: 49.3, White people: 51.3	328	59	Waist, TC:HDL	6
Raghavan et al, 2008 ³²		Montreal	Chart Review	1995–2000 (5 yr)	130	92/8	59.7	65	50	Short and long-term mortality	4
Shah et al, 2013 ⁴⁰	MOHLTC databases	Ontario	Prospective cohort	2002–2009 (7 yr)	491 243	White people:52/48, South Asians:56/44, Chines:54/46	White people:58.3, South Asians: 51.6, Chinese: 56.5	22 342	4.5	Age at diagnosis of diabetes	5
Sheth et al, 1999 ¹⁵	Canadian mortality database	Canada	Retrospective cohort	1979–1993	949 859			6 548	0.68	CVD mortality rates	5
Singh et al, 2005 ⁵⁷	Hospital chart review	Toronto	Retrospective cohort	1997–1999 (2 yr)	887	South Asians: 51/49, Non-South Asians: 50/50	South Asians: 69.1, Non-South Asians: 75.1	90	12	Smoking, post-MI mortality rates	3
Smith et al, 2006 ²³		Montreal	Cross-sectional Convenience sampling	2004–2005 (1 yr)	165	52/48		82	50	BMI, body fat %, WHR, Waist, TC, HDL-C, TC:HDL-C, ApoB/ApoA1,	3

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										smoking status, fasting glucose	
Smith et al, 2006 ¹⁶		Montreal	Cross-sectional Convenience sampling	2004– 2005 (1 yr)	114	61/39		65	57	ApoB, ApoA1, diabetes	3
Trop et al, 2014 ³³	N/A	Toronto	Prospective cohort	2008– 2010	37	South Asians:76.5/23.5 White people:80/20	South Asians: 61.4 White people: 63.5	17	46	Diabetes, Smoking	3
<p>BMI: Body Mass Index, WHR: Waist-to-hip ratio, HOMA-IR: Homeostatic Model Assessment- Insulin Resistance, SBP: Systolic Blood Pressure, DBP: Diastolic Blood Pressure, HDL-C: High Density Lipoprotein- Cholesterol, LDL-C: Low Density Lipoprotein-Cholesterol, TC: Total Cholesterol, TC:HDL-C: Ratio of Total Cholesterol to High Density Lipoprotein-Cholesterol, TG: Triglycerides. SHARE: Study of Health Assessment and Risk in Ethnic groups, APPROACH: Alberta Provincial Project for Outcome Assessment in Coronary Heart disease, NPHS: National Population Health Survey, CCHS: Canada Community Health Survey, TNH: Toronto Nutrigenomics and Health Study, BCCR: British Columbia Cardiac Registry, M-CHAT: Multicultural Community Health Assessment Trial, ACTFAST: Achieve Cholesterol Targets Fast with Atorvastatin Stratified Titration, MOHLTC: Ministry of Health and Long-term Care.</p>											