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STable 1: MEDLINE search strategy

#	Search terms	Results
1	"africa south of the sahara"/ or africa, central/ or africa, eastern/ or africa, southern/ or africa, western/	18735
2	("africa south of the sahara" or sub-saharan africa or central africa or eastern	20044
3	africa or southern africa or western africa).ti,ab. Benin/	1339
4	(Benin or Dahomey).ti,ab.	2561
5	Burkina Faso/	2824
6	(Burkina Faso or Burkina Fasso or Upper Volta).ti,ab.	3149
7	Burundi/	603
8	Burundi.ti,ab.	633
9	Central African Republic/	721
10	(Central African Republic or Ubangi-Shari).ti,ab.	817
11	Chad/	653
12	Chad.ti,ab.	896
13	Comoros/	262
14	(Comoros or Comoro Islands or Mayotte or Iles Comores).ti,ab.	438
15	"Democratic Republic of the Congo"/	3662
16	((demogratic republic adj2 congo) or belgian congo or zaire).ti,ab.	3432
17	Eritrea/	272
18	Eritrea.ti,ab.	362
19	Ethopia/	9799
20	Ethiopia.ti,ab.	8585
21	Gambia/	2295
22	Gambia.ti,ab.	1950
23	Guinea/	903
24	(Guinea not (New Guinea or Guinea Pig* or Guinea Fowl)).ti,ab.	3086
25	Guinea-Bissau/	853
26	(Guinea-Bissau or Portuguese Guinea).ti,ab.	845
27	Liberia/	1053
28	Liberia.ti,ab.	1140
29	Madagascar/	3045
30	(Madagascar or Malagasy Republic).ti,ab.	3619
31	Malawi/	4369
32	(Malawi or Nyasaland).ti,ab.	4703
33	Mali/	2107
34	Mali.ti,ab.	2652
35	Mozambique/	1989
36	(Mozambique or Mocambique or Portuguese East Africa).ti,ab.	2509
37	Niger/	1064
38	(Niger not (Aspergillus or Peptococcus or Schizothorax or Cruciferae or Gobius	2491
	or Lasius or Agelastes or Melanosuchus or radish or Parastromateus or Orius	
20	or Apergiullus or Parastromateus or Stomoxys)).ti,ab.	1000
39 40	Rwanda/ (Rwanda or Ruanda).ti,ab.	1998 2039
41	Senegal/	5297
42		4607
43	senegal.ti,ab. Sierra Leone/	1274
44	Sierra Leone.mp.	1764
45	Somalia/	1415
46	Somalia.ti,ab.	1041
47	South Sudan/	88
48	south sudan,ti,ab.	315
49	Tanzania/	9821
50	(Tanzania or Tanganyika or Zanzibar).ti,ab.	9773
51	Togo/	1000
52	(Togo or Togolese Republic).ti,ab.	1117
53	Uganda/	10311
	Uganda.ti,ab.	9919

55	7imbabua/	5354
56	Zimbabwe/	
	(Zimbabe or Rhodesia).ti,ab.	4775
57	Angola/	867
58	angola.ti,ab.	1034
59	Cameroon/	4740
60	Cameroon.ti,ab.	4947
61	Cape Verde/	153
62	(Cape Verde or Cabo Verde).ti,ab.	443
63	Congo/	1666
64	(congo not ((democratic republic adj3 congo) or congo red or crimean-	2090
CE	congo)).ti,ab.	2004
65	Cote d'Ivoire/	2864
66 67	(Cote d'Ivoire or Ivory Coast).ti,ab.	3079
_	Ghana/	6561
68	(Ghana or Gold Coast).ti,ab.	6694
69	Kenya/	13981
70	kenya.mp.	16901
71	Lesotho/	367
72	(Lesotho or Basutoland).ti,ab.	510
73	Mauritania/	398
74	Mauritania.ti,ab.	478
75	Nigeria/	25460
76	Nigeria.ti,ab.	19666
77	Atlantic Islands/	724
78	(sao tome adj2 principe).ti,ab.	106
79	Sudan/	4378
80	(Sudan not south sudan).ti,ab.	5749
81	Swaziland/	482
82	Swaziland.ti,ab.	634
83	Zambia/	3916
84	(Zambia or Northern Rhodesia).ti,ab.	3808
85	Botswana/	1525
86	(Botswana or Bechuanaland or Kalahari).ti,ab.	1788
87	Equatorial Guinea/	230
88	(Equatorial Guinea or Spanish Guinea).ti,ab.	336
89	Gabon/	1360
90	(Gabon or Gabonese Republic).ti,ab.	1414
91	Mauritius/	513
92	(Mauritius or Agalega Islands).ti,ab.	725
93	Namibia/	905
94	Namibia.ti,ab.	1038
95	South Africa/	37465
96	South Africa.ti,ab.	23379
97	Seychelles/	328
98	Seychelles.ti,ab.	541
99	or/1-98 [ALL COUNTRIES IN SUB-SAHARAN AFRICA]	216458
100	Epidemiologic studies/	7708
101	exp Cohort studies/	1749070
102	100 or 101	1755715
103	(cohort stud*).ti,ab.	131703
104	(cohort analy*).ti,ab.	5335
105	(follow-up).ti.ab.	736920
106	(followup).ti,ab.	17427
107	(prospective stud*).ti,ab.	137524
108	(longitudinal stud*).ti,ab.	55691
109	(retrospective stud*).ti,ab.	108903
110	(panel stud*).ti,ab.	1616
111	(panel analy*).ti,ab.	382
112	103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112	1088161
113	102 or 112	2154971

finalure* or disease* or insufficienc* or injur* or damage* or impairment* or function* or dysfunction*) 1.16 ((end-stage*) adj4 (renal or kidney)), ti, ab. 32416 117 (ESRD or ESKD or ESKF or CKD or CKF), ti, ab. 31606 (proteinur* or creatinine*) 1.1596 118 (glomeru* adj3 filtrat* adj3 rate*), ti, ab. 34048 120 (GFR or eGFR), ti, ab. 34048 120 (GFR or eGFR), ti, ab. 34048 121 114 or 115 or 115 or 117 or 118 or 119 or 120 31754 122 tung Diseases, Obstructive/ 18090 123 exp Pulmonary Disease, Chronic Obstructive/ 4842; 124 exp Asthma/ 11953 125 122 or 123 or 124 exp Asthma/ 11953 125 (obstruct* adj3 (pulmonary or lung* or airway* or bronch* or respirat*) ti, ab. 1277 (COPD or CCAD or COBD or AECB), ti, ab. 128 (asthma* or wheez* or emphytema or dyspnea), ti, ab. 1278 126 or 127 or 128 or 129 or 130 1270 1270 1271 1270 1270 1271 1271 1270 1271	114	exp Renal Insufficiency, chronic/	102826
function* or dysfunction*), it, ab. 3241(115	((chronic or acute or reduced or progress*) adj6 (renal or kidney) adj5	112000
116		(failure* or disease* or insufficienc* or injur* or damage* or impairment* or	
117			
118	116	((end-stage* or endstage*) adj4 (renal or kidney)).ti,ab.	32416
119	117	(ESRD or ESKD or ESKF or CKD or CRD or CKF).ti,ab.	31609
120	118		115964
121	119	(glomerul* adj3 filtrat* adj3 rate*).ti,ab.	34048
122	120	, , ,	53925
123	121		317540
124	122	Lung Diseases, Obstructive/	18090
125	123	exp Pulmonary Disease, Chronic Obstructive/	48427
126	124	exp Asthma/	119532
respirat*).ti,ab.	125		178292
127	126	(obstruct* adj3 (pulmonary or lung* or airway* or bronch* or	66118
128		, , ,	
129	127		33189
130	128		178358
131 126 or 127 or 128 or 129 or 130 26998 132 125 or 131 29982 133 Cardiovascular diseases/ 13065 134 exp Hypertension/ 23922 135 133 or 134 or 134 50536 136 hypertens*.ti,ab. 35343 136 hypertens*.ti,ab. 35343 137 ((elevat* or high or increase*) adj3 blood adj pressur*).ti,ab. 35343 138 ((systolic or diastolic or arter*) adj3 pressur*).ti,ab. 17336 139 (S8P or D8P).ti,ab. 20666 140 136 or 137 or 138 or 139 154327 141 135 or 140 168800 142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 38543 144 exp Prostatic Neoplasms/ 11440 145 Uterine Cervical Neoplasms/ 69196 exp Breast Neoplasms/ 69196 exp Breast Neoplasms/ 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 15030 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 15030 15030 150 142 or 143 or 144 or 145 or 16 or 147 or 148 or 149 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 153 151 and 153 152 640 155 or 153 11797; 155 150 or 150 1	129	(chronic* adj3 (pulmonary or lung* or airway* or bronch* or respirat*)).ti,ab.	78568
132 125 or 131 29982 133 Cardiovascular diseases/ 13065 134 exp Hypertension/ 23922 135 133 or 134 or 134 50536 136 hypertens*it,ab. 35432 137 ((elevat* or high or increase*) adj3 blood adj pressur*).ti,ab. 17336 138 ((systolic or diastolic or arter*) adj3 pressur*).ti,ab. 17336 139 (SBP or DBP).ti,ab. 20660 140 136 or 137 or 138 or 139 154327 141 135 or 140 168808 142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostate/ 33031 145 Uterine Cervical Neoplasms/ 69194 146 exp Breast Neoplasms/ 69194 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (canc	130	(spirometry).ti,ab.	12714
133	131	126 or 127 or 128 or 129 or 130	269986
134	132		299822
135 133 or 134 or 134 50536 136 hypertens* ti,ab. 35432 137 ((elevat* or high or increase*) adj3 blood adj pressur*).ti,ab. 35234 138 ((systolic or diastolic or arter*) adj3 pressur*).ti,ab. 17336 139 (SBP or DBP).ti,ab. 2066 140 136 or 137 or 138 or 139 154327 141 135 or 140 168808 142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 1949 146 exp Breast Neoplasms/ 69194 146 exp Breast Neoplasms/ 1949 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 148 Esophageal Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or disor duct* or intraduct* or medullary or tubular).ti,ab. 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or 140126 <td>133</td> <td>Cardiovascular diseases/</td> <td>130657</td>	133	Cardiovascular diseases/	130657
136	134	exp Hypertension/	239229
137	135	133 or 134 or 134	505365
138	136		354324
139	137	((elevat* or high or increase*) adj3 blood adj pressur*).ti,ab.	35234
140 136 or 137 or 138 or 139 154327 141 135 or 140 168808 142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 69196 145 Uterine Cervical Neoplasms/ 69196 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 152 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperinsulinism/ 78644 158 155 or 156 or 157 19950 159 (Nper adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 671	138	((systolic or diastolic or arter*) adj3 pressur*).ti,ab.	173368
141 135 or 140 168808 142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 11440 145 Uterine Cervical Neoplasms/ 69196 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278914 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 66353 161 (NIDDM).ti,ab. 66353 163 159 or 160 or 161 or 162 16520<	139	(SBP or DBP).ti,ab.	20660
142 Neoplasms/ 38543 143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 11440 145 Uterine Cervical Neoplasms/ 69196 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 152 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118791 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78644 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 <td< td=""><td>140</td><td>136 or 137 or 138 or 139</td><td>1543276</td></td<>	140	136 or 137 or 138 or 139	1543276
143 Prostate/ 33031 144 exp Prostatic Neoplasms/ 11440 145 Uterine Cervical Neoplasms/ 69199 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 152 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78646 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabet	141	135 or 140	1688081
144 exp Prostatic Neoplasms/ 11440 145 Uterine Cervical Neoplasms/ 69196 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278914 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((NiDDM).ti,ab. 6717 161 (NiDDM).ti,ab. 6535 163 <td>142</td> <td>Neoplasms/</td> <td>385438</td>	142	Neoplasms/	385438
145 Uterine Cervical Neoplasms/ 69196 146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278914 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperglycemia/ 32712 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*).ti,ab. 6717 161 (NIDDM)	143	Prostate/	33031
146 exp Breast Neoplasms/ 26391 147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278916 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140126 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78646 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 1	144	exp Prostatic Neoplasms/	114402
147 Carcinoma, Ductal, Breast/ 14556 148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278916 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140126 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78646 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6735 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618	145	Uterine Cervical Neoplasms/	69196
148 Esophageal Neoplasms/ 45865 149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278914 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperglycemia/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obes	146	exp Breast Neoplasms/	263917
149 exp Liver Neoplasms/ 15030 150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278914 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618	147	Carcinoma, Ductal, Breast/	14556
150 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 100862 151 (cancer* or neoplasm* or carcinoma* or tumo?r* or metasta* or malig* or adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 278912 152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			45865
151	149	exp Liver Neoplasms/	150300
adenocarcinoma* or sarcoma* or leiomyosarcoma* or dcis or duct* or intraduct* or medullary or tubular).ti,ab. 152	150		1008626
intraduct* or medullary or tubular).ti,ab.	151	,	2789143
152 (prostat* or cerv* or breast or mammar* or esohag* or oesaphag* or liver*).ti,ab. 140124 153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618		, and the second	
liver*).ti,ab.			
153 151 and 153 63928 154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 6717 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618	152	.,	1401244
154 150 or 153 118797 155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			
155 exp Diabetes Mellitus, Type 2/ 11437 156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			639282
156 exp Hyperglycemia/ 32712 157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			1187973
157 exp Hyperinsulinism/ 78640 158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			114375
158 155 or 156 or 157 19950 159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			32712
159 (Type* adj3 ("2" or II or two*) adj3 (diabete* or diabetic*)).ti,ab. 10256 160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			78640
160 ((Non-insulin* or Non insulin* or Noninsulin*) adj3 depend* adj3 (diabete* or diabetic*)).ti,ab. 11397 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			199505
diabetic*)).ti,ab. 161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618			102566
161 (NIDDM).ti,ab. 6717 162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618	160		11397
162 (hyperglyc?emi* or hyperinsulin*).ti,ab. 65353 163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618	161		6717
163 159 or 160 or 161 or 162 16520 164 158 or 163 24954 165 exp Obesity/ 18618		, , ,	
164 158 or 163 24954 165 exp Obesity/ 18618			165208
165 exp Obesity/ 18618			
1 100 CAD OVER WEIGHT			191324
			194030

168	(obesity or obese).ti,ab.	217631
169	(overweight or over-weight or overweight).ti,ab.	49565
170	(adipos*).ti,ab.	79728
171	168 or 169 or 170	283311
172	167 or 171	324315
173	121 or 132 or 141 or 154 or 164 or 170	3674613
174	99 and 113 and 173	4123
175	limit 175 to (humans and yr="2000-Current")	3245

STable 2: Data extraction form

Cohort Name	
Study ID of relevant publication(s)	
Corresponding authors' contact details	
Study Characteristics	
Country	
Study design	
Start date	
End date	
Total duration of study	
# of data collection points	
Main focus	
Funding of study	
Potential for data access?	
Participant Characteristics	
Sampling frame	
Method of sampling	
Inclusion/Exclusion criteria	
# eligible	
# enrolled	
Sample size at final evaluation	
Response rate	
Age (mean)	
Possible to stratify on age?	
Sex (%)	
Ethnicity (%)	
Rural/urban (%)	
Comparison groups reported (N)	
Chronic NCD data	
Chronic NCD(s)	
(repeat for each NCD)	
Chronic NCD	
Definition	
Source of measurement	
Time points measured	
Reporting of chronic NCD	
Estimate in total sample	
Associated risk factor(s) reported	
Risk Factor data	
Demographic & Environmental risk factors (ie education, SES, occupation, indoor/outdoor pollution, occupational exposure; repeat for each risk factor)	
Risk factor	
Definition	
Time points measured	
Source of measurement	
Lifestyle risk factors	
(ie smoking status, alcohol use, physical activity, diet, sexual behaviour, breastfeeding, age at menarche; repeat for each risk	
factor) Risk factor	

Definition	
Time points measured	
Source of measurement	
Physiological risk factors (ie BP, height, weight, WC, fasting blood glucose, HC, lipids, urinalysis, HIV infection, TB infection, anaemia, body composition, OGTT, genetics; repeat for each risk factor)	
Risk factor	
Definition	
Time points measured	
Source of measurement	
Stored samples? (repeat for each type of sample)	
Type of sample	
Method of storage	
Results	
Loss to follow-up (if yes, give reasons)	
Notes	

STable 3: Studies that were excluded after obtaining the full-text article

	Identifie					н - е	# of data	follow	Dancer for
Study ID	d through	Title	Journal	Country	Study Design	# of participants	collection points	-up time	Reason for exclusion
Abdissa 2014	database	Spectrum of cardiovascular diseases among Ethiopian patients in Tikur Anbessa Specialised University Teaching Hospital, Addis Abba.	Ethiopian medical journal	Ethiopia	cohort study	<500	points	ume	small
Accorsi 2009	database	Poverty, inequality and health: the challenge of the double burden of disease in a non-profit hospital in rural Ethiopia.	Transactions of the Royal Society of Tropical Medicine and Hygiene	Ethiopia	cross- sectional				cross-sectional
Amberbir 2011	database	Effects of helicobacter pylori, geohelminth infection and selected commensal bacteria on the risk of allergic disease and sensitization in 3- year-old Ethopian children.	Clinical and experimental allergy	Ethiopia	cross- sectional				cross-sectional

Study ID Amberbir 2011c	d through database	Title Frequent use of paracetamol and risk of allergic disease among women in an Ethiopian population.	Journal PloS one	Country Ethiopia	Study Design cross- sectional	# of participants	# of data collection points	follow -up time	Reason for exclusion cross-sectional
Anastos 2010	database	Risk factors for cervical precancer and cancer in HIV- infected, HPV- positive Rwandan women.	PloS one	Rwanda	cross- sectional				cross-sectional
Arokiasamy 2017	database	Chronic noncommunicabl e diseases in 6 low- and middle- income countries: findings from wave 1 of the world health organization's study on global ageing and adult health (SAGE).	American journal of epidemiology	China, Ghana, India, Mexico, Russia, South Africa	cross- sectional				cross-sectional
Arokiasamy 2017	database	Chronic noncommunicabl e diseases in 6 low- and middle- income countries: findings from wave 1 of the	American journal of epidemiology	China, Ghana, India, Mexico, Russia, South Africa	international study				international

Study ID	Identifie d	Tialo	louwel	Country	Study Design	# of	# of data collection	follow -up	Reason for exclusion
Study ID	through	Title world health organization's study on global ageing and adult health (SAGE).	Journal	Country	Study Design	participants	points	time	exclusion
Atiase 2015	database	A comparison of indices of glucose metabolism in five black populations: data form medling the epidemiologic transition study.	BMC public health	US, Jamaica, Ghana, South Africa, Seychelle s	cross- sectional				cross-sectional
Atiase 2015	database	A comparison of indices of glucose metabolism in five black populations: data form medling the epidemiologic transition study.	BMC public health	US, Jamaica, Ghana, South Africa, Seychelle s	cross- sectional				cross-sectional
Basu 2013	database	social epidemiology of hypertension in middle-income countries: determinants of prevalence, diagnosis, treatment, and control in the WHO SAGE study.	Hypertension	China, Ghana, India, Mexico, Russia, South Africa	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
Beguy 2015	database	Health & Demographic Surveillance System Profile: The Nairobi Urban Health and Demographic Surveillance System (NUHDSS)	Int J Epidemiol	Kenya	cross- sectional				cross-sectional
Belyhun 2010	database	Prevalence and risk factors of wheeze and eczema in 1-year-old children: the Butajira birth cohort, Ethiopia.	Clinical and experimental allergy	Ethiopia	cross- sectional				cross-sectional
Biccard 2012	database	What is the best pre-operative risk stratification tool for major adverse cardiac events following elective vascular surgery? A prospective observational cohort study evaluation pre-operative myocardial ischaemia monitoring and biomarker anlaysis.	Anaesthesia	South Africa	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
Biccard 2012	database	What is the best pre-operative risk stratification tool for major adverse cardiac events following elective vascular surgery? A prospective observational cohort study evaluation pre-operative myocardial ischaemia monitoring and biomarker analysis.	Anaesthesia	South Africa	cross- sectional analysis of cohort data				cross-sectional
Botha 2014	database	Associations of suPAR with lifestyle and cardiometabolic risk factors.	European journal of clinical investigation	South Africa	cross- sectional				cross-sectional
Botha 2015	database	Soluble urokinase plasminogen activator receptor as prognostic marker of all-cause and cardiovascular mortality in a black population.	International journal of cardiology	South Africa	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
Carrillo-Larco 2014	database	Short sleep duration and childhood obesity: cross- sectional analysis in Peru and patterns in four developing countries	PloS one	Ethiopia, India, Peru, Vietnam	cross- sectional analysis of cohort data	<500			small
Chalumeau 2002	database	Can clinical risk factors for late stillbirth in West Africa be detected during antenatal care or only during labour?	International journal of epidemiology	Ivory Coast, Mali, Senegal, Niger, Mauritani a, Burkina Faso, Senegal	cross- sectional				cross-sectional
Chiolero 2011	database	Birth weight, weight change, and blood pressure during childhood and adolescence: a school-based multiple cohort study	J Hypertens	Seychelle s	cross- sectional				cross-sectional
Chirenda 2000	database	Association of HIV infection with the development of severe and complicated malaria cases at a	Cent Afr J Med	Zimbabw e	Prospective cohort	<500			small

Study ID	Identifie d through	Title rural hospital in Zimbabwe	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Chirwa 2014	database	Postnatal growth velocity and overweight in early adolescents: a comparison of rural and urban African boys and girls.	Americna journal of human biology	South Africa, Malawi	child cohorts	<500			small
Chokunonga 2011	database	Cancer survival in Harare, Zimbabe, 1993-1997.	IARC scientific publications	Zimbabw e	follow-up	<500			small
Clark 2015	database	Cardiometabolic disease risk and HIV status in rural South Africa: establishing a baseline	BMC public health	South Africa	cross- sectional				cross-sectional
Cois 2014	database	Analysing the socioeconomic determinants of hypertension in South Africa: a structural equation modelling approach.	BMC public health	South Africa	cross- sectional				cross-sectional
Cooper 2015	database	Elevated hypertension risk for African-origin populations in	Journal of hypertension	Ghana, South Africa,	cross- sectional				cross-sectional

	Identifie						# of data	follow	
	d					# of	collection	-up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
		biracial societies: modeling the Epidemiologic Transition Study.		Seychelle s					
Crampin 2012	database	Profile: the Karonga Health and Demographic Surveillance System	Int J Epidemiol	Malawi	cross- sectional				cross-sectional
Damorou 2008	database	Cardiovascular emergencies and their morbimortality at the hospital. Report of 733 cases at the CHU campus in Lome (national reference hospital in Togo).	Mali medicine	Togo	cross- sectional				cross-sectional
Davey 2005	database	Wheeze, allergic sensitization and geohelminth infection in Butajira, Ethiopia.	Clinical and experimental allergy	Ethiopia	cross- sectional				cross-sectional
Dawam 2000	database	Benign prostatic hyperplasia and prostate carcinoma in native Africans.	BJU international	Nigeria	cross- sectional				cross-sectional
Deckert 2017	database	Assessment of renal function in routine care of	PloS one	Zambia	cross- sectional				cross-sectional

Charles ID	Identifie d	Tial	Januari	Country	Chudu Daalaa	# of	# of data collection	follow -up	Reason for
Study ID	through	people living with HIV on ART in a resource-limited setting in urban Zambia.	Journal	Country	Study Design	participants	points	time	exclusion
Deckert 2017	database	Assessment of renal function in routine care of people living with HIV on ART in a resource-limited setting in urban Zambia.	PloS one	Zambia	cohort	>500	1		1 data collection point
Deeg 2008	database	A comparison of cardiovascular disease risk factor biomarkers in African Americans and Yoruba Nigerians	Ethnicity & disease	USA, Nigeria					international
Denslow 2011	database	Bacterial vaginosis as a risk factor for high- grade cervical lesions and cancer in HIV- seropositive women.	International journal of gynaecology and obstetrics	South Africa	cross- sectional				cross-sectional
Dolo 2003	database	Epidemiology of malaria in a village of Sudanese savannah in Mali		Mali	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
		(Bancoumana). Anti-TRAP and anti-CS humoral immunity response.							
Dorie 2015	database	Screening of cerebral vasculopathy in sickle cell anemia children using transcranial Doppler.		Mali	cross- sectional				cross-sectional
Dugas 2014	database	Comparisons of intensity-duration patterns of physical activity in the US, Jamaica and 3 African countries.	BMC public health	Ghana, South Africa, Seychelle s, Jamaica, USA					international
Duong 2013	database	Global differences in lung function by region (PURE): an international, community- based prospective study.	The Lancet. Respiratory medicine	17 countries					international
E.Bah 2011	database	Cancer survival in the Gambia, 1993-1997.	IARC scientific publications	Gambia	prospective follow-up	<500			small

Study ID El Imam 2006	Identifie d through database	Title Obstructive uropathy in Sudanese patients.	Journal Saudi journal of kidney diseases and transplantation	Country Sudan	Study Design cross- sectional	# of participants	# of data collection points	follow -up time	Reason for exclusion cross-sectional
Elsharif 2011	database	Mortality rate of patients with end stage renal disease on regular hemodialysis: a single center study.	Saudi journal of kidney diseases and transplantation	Sudan	cross- sectional				cross-sectional
Emma-Okon 2014	database	Lipid profile in an apparently healthy Nigerian population.	The Nigerian postgraduate medical journal	Nigeria	cross- sectional				cross-sectional
Ferrari 2015	database	Geographical variations in the prevalence and management of cardiovascular risk factors in outpatients with CAD: Data from the contemporary CLARIFY registry.	European journal of preventive cardiology	Western/ Central Europe, Canada/S outh Africa/Au stralia/UK , Eastern Europe, Central/S outh America, Middle East, East Asia, India					international

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
Firnhaber 2016	database	Prospective One Year Follow Up of HIV Infected Women Screened for Cervical Cancer Using Visual Inspection with Acetic Acid, Cytology and Human Papillomavirus Testing in Johannesburg South Africa.	PloS one	South Africa	prospective follow-up	>500	1		1 data collection point
Gatimu 2016	database	Prevalence and determinants of diabetes among older adults in Ghana	BMC public health	Ghana	cross- sectional analysis of cohort data	<500			small
Geubbels 2015	database	Health & Demographic Surveillance System Profile: The Ifakara Rural and Urban Health and Demographic Surveillance System (Ifakara HDSS)	Int J Epidemiol	Tanzania	cross- sectional				cross-sectional
Gildner 2014	database	Sleep duration, sleep quality, and obesity risk among older	American journal of human biology	China, Ghana, India, Mexico,	international study				international

Study ID	Identifie d	Title	lournal	Courtm	Study Design	# of	# of data collection	follow -up	Reason for
Study ID	through	adults from six middle-income countries: findings from the study on global AGEing and adult health (SAGE).	Journal	Russia, South Africa	Study Design	participants	points	time	exclusion
Gildner 2014	database	Sleep duration, sleep quality, and obesity risk among older adults from six middle-income countries: findings from the study on global AGEing and adult health (SAGE).	American journal of human biology	China, Ghana, India, Mexico, Russia, South Africa					international
Githinji 2017	database	Lung Function in South African Adolescents Infected Perinatally with HIV and Treated Long-Term with Antiretroviral Therapy	Ann Am Thorac Soc	South Africa	cross- sectional				cross-sectional
Hambridge 2017	database	Anthropometric indices for non-pregnant women of childbearing age differ widely among four low-	BMC public health	Equateur, Guatemal a, India, Pakistan, Democrat ic	cross- sectional				cross-sectional

Study ID	Identifie d through	Title middle income populations.	Journal	Country Republic of the Congo	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Hambridge 2017	database	Anthropometric indices for non-pregnant women of childbearing age differ widely among four low-middle income populations.	BMC public health	Equateur, Guatemal a, India, Pakistan, Democrat ic Republic of the Congo					international
Hennild 2016	database	Prevalence of impaired glucose tolerance and other types of dysglycaemia among young twins and singletons in Guinea-Bissau.	BMC endocrine disorders	Guinea- Bissau	cross- sectional				cross-sectional
Jean-Luc Gradidge 2016	database	Metabolic and Body Composition Risk Factors Associated with Metabolic Syndrome in a Cohort of Women with a High Prevalence of	PloS one	South Africa	cross- sectional analysis of cohort data	<500			small

Study ID	Identifie d through	Title Cardiometabolic	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
		Disease							
Jinabhai 2005	database	Changing patterns of under- and over- nutrition in South African children- future risks of non- communicable diseases.	Annals of tropical paediatrics	South Africa	cross- sectional				cross-sectional
K.Ackoundou -N'Guessan 2014	database	Uncontrolled hypertension in chronic kidney disease in patients from black Africa admitted in a renal unit: a retrospective analysis.	Nephrology therapy	Ivory Coast	retrospective analysis	<500			small
Kahn 2012	database	Profile: Agincourt health and socio- demographic surveillance system	Int J Epidemiol	South Africa	cross- sectional				cross-sectional
Kayima 2015	database	Determinants of hypertension in a young adult Ugandan population in	BMC public health	Uganda	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	epidemiological transition-the MEPI-CVD survey.	Journal	Country	Study Design	participants	points	time	exclusion
Kimbally- Kaky 2008	database	[Rheumatic heart disease in schoolchildren in Brazzaville].		Congo	cross- sectional				cross-sectional
Kisoli 2015	database	Levels of functional disability in elderly people in Tanzania with dementia, stroke and Parkinson's disease.	Acta neuropsychiatrica	Tanzania	cross- sectional				cross-sectional
Lane 2003	database	Apolipoprotein E and mortality in African- Americans and Yoruba.	Journal of Alzheimer's disease	USA, Nigeria					international
Makgae 2007	database	Somatotype and blood pressure of rural South African children aged 6-13 years: Ellisras longitudinal growth and health study.	Annals of human biology	South Africa	cross- sectional analysis of cohort data	>500	1		1 data collection point
Malete 2013	database	Body image and weight control in South Africans 15	BMC Public Health	South Africa	cross- sectional				cross-sectional

	Identifie						# of data	follow	
	d					# of	collection	-up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
		years or older: SANHANES-1							
Mancuso 2016	database	The contribution of rare variation to prostate cancer heritability.	Nature genetics	Uganda	cross- sectional				cross-sectional
Ocheni 2008		Changing pattern of childhood malignancies in Eastern Nigeria.	West African journal of medicine	Nigeria	retrospective anlaysis of longitudinal surveys	<500			small
Onyango 2011	database	Post-partum weight change patterns in the WHO Multicentre Growth Reference Study.	Maternal & child nutrition	Brazil, Ghana, India, Norway, Oman, US		<500			small
Padalko 2015	database	Evaluation of the clinical significance of human papillomavirus (HPV) 53.	European journal of obstetrics, gynecology, and reproductive biology	Belgium, DRCongo					international
Patel 2005	database	Ischemic stroke in young HIV- positive patients in Kwazulu-Natal, South Africa.	Neurology	South Africa	cohort study	<500			small
Pedro 2016	database	CardioBengo study protocol: a population based cardiovascular longitudinal study	BMC public health	Angola	protocol for cohort	<500			small

Study ID	Identifie d through	Title in Bengo Province, Angola.	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Phillips- Howard 2014	database	Deaths ascribed to non-communicable diseases among rural Kenyan adults are proportionately increasing: evidence from a health and demographic surveillance system, 2003-2010.	PloS one	Kenya	cross- sectional				cross-sectional
Phillips- Howard 2014	database	Deaths ascribed to non-communicable diseases among rural Kenyan adults are proportionately increasing: evidence from a health and demographic surveillance system, 2003-2010.	PloS one	Kenya	cross- sectional				cross-sectional

	Identifie d					# of	# of data collection	follow -up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
Pieters 2010	database	Triglyceride concentration and waist circumference influence alcohol- related plasminogen activator inhibitor-1 activity increase in black South Africans.	Blood coagulation & fibrinolysis	South Africa	cross- sectional analysis of cohort data	<500			small
R.Cooper 2015	database	Elevated hypertension risk for African-origin populations in biracial societies: modeling the Epidemiologic Transition Study.	Journal of hypertension	USA, Jamaica, Ghana, South Africa, Seychelle s	cross- sectional analysis of cohort data	<500			small
Raji 2017	database	Awareness of hypertension and its impact on blood pressure control among elderly nigerians: report from the lbadan study of aging.	The Pan African medical journal	Nigeria	community- based cohort	<500			small

	Identifie d			_		# of	# of data collection	follow -up	Reason for
Ramoshaba 2016	through database	Title Components of Height and Blood Pressure among Ellisras Rural Children: Ellisras Longitudinal Study.	International journal of environmental research and public health	South Africa	cross- sectional analysis of longitudinal data	participants >500	points 1	time	exclusion 1 data collection point
Rice 2006	database	Meta-analysis of genome-wide scans for blood pressure in African American and Nigerian samples. The National Heart, Lung, and Blood Institute GeneLink Project.	American journal of hypertension	Nigeria, USA	cross- sectional				cross-sectional
S.Abebe 2016	database	Diabetes mellitus among HIV-infected individuals in follow-up care at University of Gondar Hospital, Northwest Ethiopia.	BMJ open	Ethiopia	cross- sectional				cross-sectional
S.Abera 2017	database	Social determinants of adult mortality from non- communicable diseases in	PloS one	Ethiopia	cross- sectional				cross-sectional

	Identifie						# of data	follow	
	d					# of	collection	-up	Reason for
Study ID	through	Title	Journal	Country	Study Design	participants	points	time	exclusion
		northern Ethiopia, 2009- 2015: Evidence from health and demographic surveillance site.							
Safaeian 2007	database	Comparability of self-collected vaginal swabs and physician-collected cervical swabs for detection of human papillomavirus infections in Rakai, Uganda.	Sexually transmitted infections	Uganda	cross- sectional				cross-sectional
Schwartz 2009	database	Global meta- analysis of the C- 11377G alteration in the ADIPOQ gene indicates the presence of population- specific effects: challenge for global health initiatives.	The pharmacogenomic s journal	South Africa, Cuba, Germany	meta-analysis of cohorts	<500			small
Sliwa 2008	database	Spectrum of heart disease and risk factors in a black urban	Lancet	South Africa	cross- sectional				cross-sectional

Study ID	Identifie d through	Title population in South Africa (the Heart of Soweto Study): a cohort study.	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Sliwa 2012	database	Different lipid profiles according to ethnicity in the Heart of Soweto study cohort of de novo presentations of heart disease.	Cardiovascular journal of Africa	South Africa	cross- sectional				cross-sectional
Sliwa 2012	database	Contribution of the human immunodeficienc y virus/acquired immunodeficienc y syndrome epidemic to de novo presentations of heart disease in the Heart of Soweto Study cohort.	European heart journal cardiovascular Imaging	South Africa	prospective, clinical registry	>500	1		1 data collection point
Stewart 2008	database	Predominance of heart failure in the Heart of Soweto Study cohort: emerging challenges for	Circulation	South Africa	prospective, clinical registry	>500	1		1 data collection point

Study ID	Identifie d through	Title urban African communities.	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Stewart 2011	database	Standing at the crossroads between new and historically prevalent heart disease: effects of migration and socio-economic factors in the Heart of Soweto cohort study.	European Heart journal	South Africa	prospective, clinical registry	>500	1		1 data collection point
Stewart 2011b	database	The clinical consequences and challenges of hypertension in urban-dwelling black Africans: insights from the Heart of Soweto Study.		South Africa	prospective, clinical registry	>500	1		1 data collection point
Stewart 2011c	database	A not-so-rare form of heart failure in urban black Africans: pathways to right heart failure in the Heart of Soweto Study cohort.		South Africa	prospective, clinical registry	>500	1		1 data collection point

Study ID	Identifie d through	Title	Journal	Country	Study Design	# of participants	# of data collection points	follow -up time	Reason for exclusion
Urena-Torres 2011	database	Association of kidney function, vitamin D deficiency, and circulating markers of mineral and bone disorders in CKD.	American journal of kidney diseases	Sudan	cross- sectional				cross-sectional
van der Sande 2001	database	Geographical variation in prevalence of hypertension within The Gambia.	Journal of human hypertension	The Gambia	follow-up study	<500			
Victora 2008	database	Maternal and child undernutrition: consequences for adult health and human capital.	Lancet	Brazil, Guatemal a, India, Phillipine s, South Africa	analysis of prospective cohorts	<500			

STable 4a: Characteristics of included studies with only children and young adults aged <20 years, sampled from general populations

Name of	Mandala/a shildren The 1000 Birth to Truste Cabert		
cohort and reference	Mandela's children: The 1990 Birth to Twenty Cohort (BT20)[18]–[35]	Seychelles Child Development Study[36]–[40]	The Lungwena Child Survival Study [32],[41]–[45]
Country	South Africa	Seychelles	Malawi
Study design	birth cohort	cohort study	birth cohort
Start date	1990	1989	1995
Total duration of study	28yrs	20yrs	23yrs
# of data collection points	15	≥4	3
Main focus	child development	selected by MOH to focus on four important stages in development	child survival
Funding of study	Wellcome Trust, University of Witwatersrand, South African MRC, South African Human Science Research Council	McCabe Fund of the University of Pennsylvania, Rotary Club of Victoria, NIH, MOH of Seychelles, National Institutes of Environmental health Sciences, National Centre for Research Resources	Academy of Finland, the Emil Aaltonen Foundation, the Foundation for Paediatric Research in Finland, the Medical Research Fund of Tampere University Hospital, the Research Foundation of Mannerheim League for Child Welfare, the Research Foundation of the University of Tampere
Stored samples	DNA (n=2200 child samples; 2200 one biological parent)	none reported	none reported
Potential for data access?	No	not reported	not reported

MRC: Medical Research Council; NIH: National Institutes of Health; MOH: Ministry of Health

STable 4b: Characteristics of included studies with mixed (children and adults) populations, sampled from general and from clinical populations

Name of cohort and reference Country	Rakai Community Cohort Study (RCCS)[47]–[50] Uganda	Kiang West Longitudinal Population Study[51]– [53] Gambia	The General Population Cohort (GPC)[49],[54]– [57] Uganda	Bukavu Observ Study [58]-[59] DR Congo	Ellisras Longitudinal Study [62]-[66] South Africa	Mildmay Uganda Cohort[67],[68] Uganda	Prospective cohort study in Sudan[69] Sudan
Study design	open, population- based cohort	longitudinal study	community-based open cohort	observational cohort	longitudinal study	clinical cohort	longitudinal surveys
Start date	1994	1980 (biobank 2012)	1989	2012	1996	2004	2009
Total duration of study	11yrs	38yrs	22yrs	3yrs	7rs	7yrs	15mo
# of data collection points	11	≥12	22	3	13	~42	2
Main focus	HIV incidence	life-course longitudinal nutritional and health phenotypes; integrated within Kiang West DSS, KEMRes, and Keneba Biobank	HIV, NCDs, genetics	prevalence of NCDs	growth and health	to monitor clinical care and outcomes of HIV among patients on treatment	to evaluate the survival of haemodialysis patients
Funding of study	National Institute of Mental Health, National Institute of Allergy and Infectious Diseases, National Institute of Child Health and Development, National Institute for Allergy and Infectious Diseases Division of Intramural Research, NIH, Bill	MRC UK, UK Department for International Development	MRC UK, Wellcome Trust	Flemish Inter- University Council	VU University Medical Centre, University of Limpopo South Africa, National Research Foundation, MRC of South Africa, University of the North South Africa	Canadian Institutes for Health Research, Grand Challenges Canada, President's Emergency Plan for AIDS Relief	not reported

Name of cohort and reference	Rakai Community Cohort Study (RCCS)[47]–[50] & Melinda Gates Foundation, John Hopkins University Centre for AIDS Research	Kiang West Longitudinal Population Study[51]— [53]	The General Population Cohort (GPC)[49],[54]— [57]	Bukavu Observ Study [58]-[59]	Ellisras Longitudinal Study [62]-[66]	Mildmay Uganda Cohort[67],[68]	Prospective cohort study in Sudan[69]
Stored samples	venous blood samples and archived serum samples stored at - 70C	DNA extracted in 2002-2003 using standard salting-out method according to DNA Bank	DNA extracted from serum samples (available for 8000) venous blood samples stored at - 80C	none reported	none reported	none reported	none reported
Potential for data access?	yes	yes	yes	yes	not reported	yes	not reported

DSS: Demographic Surveillance Site; KEMRes: Keneba Electronical Medical Records System; MRC: Medical Research Council; NIH: National Institutes of Health

STable 4c: Characteristics of included studies with only adults aged >18 yrs, sampled from general populations

Name of cohort and reference	African Collaborative Centre for Microbiome and Genomics Research's (ACCME's) HPV and Cervical Cancer Study[70]	Africa Wits-INDEPTH partnership for Genomic Studies (AWI-Gen)[71],[72]	Health and Aging in Africa: a Longitudinal Study of an INDEPTH Community in South Africa (HAALSI)[73]— [75]	Non-Communicable Disease Intervention Programme[76]–[83]	Dar es Salaam Urban Cohort Hypertension Study (DUCS- HTN)[84]	Ibadan Study of Aging[85]–[88]	Prospective Cohort in Democratic Republic of Congo[89]	The Benin Study[90],[91]
Country	Nigeria	Burkina Faso, Ghana, Kenya, South Africa	South Africa	Mauritius	Tanzania	Nigeria	DR Congo	Benin
Study design	cohort study	longitudinal study	population- based longitudinal cohort	longitudinal population- based surveys	cohort study	community- based cohort	prospective cohort	longitudinal observational study
Start date	2014	2013	2014	1987	2014	2003	2004	2005
Total duration of study	24mo	5yrs	4yrs	11yrs	1yr	4yrs	4yrs	5yrs
# of data collection points	5	1 (next planned in 2019)	≥8	3	2	2	8	3
Main focus	environmental, microbiomic, genetic and epigenetic factors associated with persistent HPV infection	genetic and environmental factors that contribute to cardiometabolic disease in African populations	CVDs, HIV, cognitive function and dementia	NCD intervention	prevalence, risk factors, and barriers to diagnosis and treatment for hypertension in Dar es Salaam	functioning and disability of elderly persons	type 2 diabetes incidence	evolution of cardiometabolic risk
Funding of study	NIH	NIH	National Institute on Aging	US NIH	Centre for Global Demography of Ageing	Wellcome Trust	LOMO Medical Clinic, Regional Office of WHO for Africa	Canadian International Development Agency

Name of cohort and reference	African Collaborative Centre for Microbiome and Genomics Research's (ACCME's) HPV and Cervical Cancer Study[70]	Africa Wits-INDEPTH partnership for Genomic Studies (AWI-Gen)[71],[72]	Health and Aging in Africa: a Longitudinal Study of an INDEPTH Community in South Africa (HAALSI)[73]— [75]	Non-Communicable Disease Intervention Programme[76]–[83]	Dar es Salaam Urban Cohort Hypertension Study (DUCS- HTN)[84]	Ibadan Study of Aging[85]–[88]	Prospective Cohort in Democratic Republic of Congo[89]	The Benin Study[90],[91]
Stored samples	cervical biopsy samples stored as fresh frozen and paraffin embedded; venous blood samples separated into plasma, serum, buffy coat, red blood cells, and clot and stored at -80C	serum, plasma, urine aliquots frozen at -80C	none reported	none reported	none reported	none reported	none reported	none reported
Potential for data access?	`	yes	yes	not reported	not reported	yes	not reported	not reported

NIH: National Institute of Health; CVD: Cardiovascular Diseases

STable 4d: Characteristics of included studies with only adults aged >18yrs, sampled from occupational and clinical populations

Name of cohort and reference	Basotho Gold Miners Cohort[92],[93]	Themba Lethu Clinical (TLC) Cohort Study[94],[95]	Cohort of HIV- infected, ART-naïve adults[96],[97]	Operational cohort of treatment naïve HIV-infected men and women[98],[99]	Prospective cohort of nulliparous women[100],[101]	The African Breast Cancer Disparities in Outcomes (ABC-DO) Study[102],[103]	HPV in Africa Research Partnership (HARP) Study[104]—[106]	The Complications of Long-Term Antiretroviral Therapy among HIV-positive Ugandan adults (CoLTART) study[107]–[109]
Country	Lesotho	South Africa	Zambia	South Africa	Nigeria	Namibia, Nigeria, South Africa, Uganda, Zambia	Burkina Faso, South Africa	Uganda
Study design	occupational cohort study	clinical cohort study	clinical cohort study	clinical cohort study	prospective clinical cohort	prospective hospital-based study	prospective clinical cohort	prospective clinical cohort
Start date	1999	2004	2004	2003	2006	2014	2011	2013
Total duration of study	1yr	14yrs	3yrs	8yrs	3yrs	3yrs	18mo	18mo
# of data collection points	2	≥14	2	≥15	2	9	≥2	3
Main focus	health of gold miners	HIV	effects of ART	a wellness clinic, which has provided pre- antiretroviral therapy care and support for HIV- infected adults in Soweto	health outcomes of pregnant women	overall survival, impact on quality of life, and delays along the journey from symptom discovery to diagnosis and treatment of breast cancer in SSA	evaluation of cervical cancer screening approaches among women living with HIV	platform for studying the complications of long-term ART among Ugandan HIV-positive adults
Funding of study	AngloGold Corporation	USAID, National Institute of Allergy and Infectious Diseases, National	Elizabeth Glaser Paediatric AIDS Foundation from the US Centres for Disease Control and	USAID South Africa	Gates Institute of the Johns Hopkins University, MacArthur	Susan G Komen for the Cure Foundation, IARC	European Commission 7th Framework Programme	UK MRC, UK Department for International Development

Name of cohort and reference	Basotho Gold Miners Cohort[92],[93]	Themba Lethu Clinical (TLC) Cohort Study[94],[95]	Cohort of HIV- infected, ART-naïve adults[96],[97]	Operational cohort of treatment naïve HIV-infected men and women[98],[99]	Prospective cohort of nulliparous women[100],[101]	The African Breast Cancer Disparities in Outcomes (ABC-DO) Study[102],[103]	HPV in Africa Research Partnership (HARP) Study[104]–[106]	The Complications of Long-Term Antiretroviral Therapy among HIV-positive Ugandan adults (CoLTART) study[107]-[109]
		Institute of Child Health and Development, South African Mission of the US Agency for International Development	Prevention, Doris Duke Charitable Foundations, NIH, University of Alabama at Birmingham Centre for AIDS		Multidisciplinary Resarch grant			
Stored samples	none reported	none reported	Research none reported	none reported	none reported	formalin-fixed paraffin embedded tumour blocks	none reported	whole blood for genomics studies stored at -80C
Potential for data access?	yes	yes	not reported	yes	not reported	yes	not reported	yes

NIH: National Institute of Health; MRC: Medical Research Council: IARC: International Agency for Research on Cancer; ART: antiretroviral therapy; WIHS: Women's Interagency HIV Study

STable 4d continued: Characteristics of included studies with only adults aged >18yrs, sampled from occupational and clinical populations

Name of cohort and reference	Prospective cohort study in Ghana[110]	Rwanda Women's Interassociation Study and Assessment (RWISA)[111]–[114]	Prospective cohort study in Benin[115]	Uganda AIDS Rural Treatment Outcomes (UARTO) cohort[116]–[118]
Country	Ghana	Rwanda	Benin	Uganda
Study design	prospective clinical cohort	observational prospective clinical cohort	prospective clinical cohort	population-based prospective cohort
Start date	2012	2005	not reported	2005
Total duration of study	2yrs	13yrs	1yr	10yrs
# of data collection points	2	26	5	≥2
Main focus	perinatal outcomes of women with pregnancies complicated by pregnancy-induced hypertension, chronic hypertension and preeclampsia	effectiveness and toxicity of ART	contrasting post-partum health of women	effects of ART
Funding of study	Ridge Regional Hospital Out Patient Clinic, Maamobi General Hospital	National Institute of Allergy and Infectious Diseases, NIH, National Institute of Diabetes and Digestive and Kidney Disease, Chicago WIHS	WHO	NIH, Doris Duke Charitable Foundation, the Sullivan Family Foundation, the Canada-Africa Prevention Trials network
Stored samples	none reported	none reported	none reported	none reported
Potential for data access?	not reported	no	not reported	not reported

NIH: National Institute of Health

STable 5a: Participant characteristics of included studies with children and young adults aged <20 years, sampled from general populations

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Name of cohort	Birth to Twenty	Seychelles Child Development Study	The Lungwena Child Survival Study
Sampling frame	general	public and private schools	general
Inclusion criteria	included all singletons born to women resident in Soweto- Johannesburg during 7wk enrolment period (≥6wks spent in area)	included all children in four grades attending all public and private schools of Seychelles	included live-born singleton offspring of a cohort of women
Subject flow (# eligible # enrolled)	eligible 5449 enrolled 3273	eligible 933 enrolled 779	eligible 795 enrolled 729
Sample size at final evaluation	6291	549	314
Age (mean)	birth-18yrs	6mo - 20yrs	birth-17yrs
Possible to stratify on age?	yes	yes	yes
Sex (%)	males (48) females (52)	males (48) females (52)	males (58) females (42)
Race/ethnicity	African (78) White (6) Coloured (12) Indian (4)	not reported	mostly Islamic
Rural/urban location (%)	urban (100)	not reported	rural (100)
Comparison groups	hypertensive (124) vs non- hypertensive (714)	none reported	stunted at 12mo (71%) vs not stunted at 12mo (29%)

STable 5b: Participant characteristics of included studies with mixed (children and adults) populations, sampled from general and clinical populations

Name of cohort	RCCS	Kiang West Longitudinal Population Study	The General Population Cohort	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Sampling frame	general population	residents across 36 villages within rural Kiang West HDSS	general population	general population	22 schools (10 pre-schools, 12 primary)	all patients who initiated combination ART at Mug	patients at haemodialysis centres in Khartoum
Inclusion criteria	included all individuals aged 15-49yrs residing for ≥6mo in agrarian and trading communities, 1mo intention to stay longer	not reported	included individuals residing ≥3mo within study area and aged ≥13yrs	all adults asked to participate	not reported	included patients beginning therapy at 13yrs with ≥ 2 BP measurements available	included all patients on haemodialysis in these centres
Subject flow (# eligible # enrolled)	eligible 53933 enrolled 33438	eligible not reported enrolled 14000 (biobank 9000)	eligible 11018 enrolled 7725	eligible 4345 enrolled 4237	eligible not reported enrolled 2225	eligible 8835 enrolled 5563	eligible 2072 enrolled 1011
Sample size at final evaluation	17119	14846	7830	3962	771	5563	967
Age (mean)	15-49yrs (23)	5-50yrs	≥13yrs (44)	≥15yrs (34)	3-28yrs	≥13yrs (35)	6-95 (45)
Possible to stratify on age?	yes	yes	yes	yes	yes	yes	no
Sex (%)	males (46) females (54)	males (43) females (57)	males (44) females (56)	males (44) females (56)	males (52) females (48)	males (33) females (67)	males (567) females (33)
Race/ethnicity	not reported	Mandinka (80) Fula (16) Jola (2) Other (3)	Muganda (75) Rwandese/Burundi (19) Other (6)	not reported	not reported	not reported	not reported
Rural/urban location (%)	rural (84) urban (16)	rural (100)	rural (100)	rural (100)	rural (100)	not reported	not reported

Name of cohort	RCCS	Kiang West Longitudinal Population Study	The General Population Cohort	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Comparison groups	HIV+ (3488) vs HIVø (13361)	none reported	low HDL (5285) vs normal HDL (2101)	malnourished (269) vs normal weight (3003) vs overweight (551) vs obese (139)	none reported	none reported	adults (968) vs paediatrics (43)

HDSS: Health & Demographic Surveillance System; HIV ø: HIV negative; ART: antiretroviral therapy; MUg: Mildmay Uganda Clinic; BP: blood pressure

STable 5c: Participant characteristics of included studies with only adults aged >18 yrs, sampled from general populations

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in DRC	The Benin Study
Sampling frame	42 districts in Abuja	six INDEPTH member HDSS centres	adults in Agincourt HDSS	10 geographically defined areas	seven neighbourhoods within HDSS	general population	drawn from cross-sectional study	Cotonou, Ouidah
Inclusion criteria	included females ≥18yrs, history of sexual intercourse, no previous history of cervical abnormalities, cervical cancer or total abdominal hysterectomy; excluded HIV+ women	included unrelated participants 40- 60yrs resident in areas served by the HDSS centres; excluded pregnant women, recent immigrants (<10yrs)	included ≥40yrs, permanently living in the study site for 12mo preceding 2013 HDSS census	included all adults 25-74yrs living within defined areas	included HDSS participants ≥40yrs, living in 1 of 2 neighbourhoods	included ≥65yrs, fluent in Yoruba	excluded participants ≤40yrs, cases of known diabetes, insufficient baseline data	excluded prior diagnosis of hypertension, diabetes, CVDs
Subject flow (# eligible # enrolled)	eligible not reported enrolled 11400	eligible not reported enrolled 10696	eligible 12872 enrolled 6281	eligible 5910 enrolled 5083	eligible 4896 enrolled 2290	eligible 2900 enrolled 2152	eligible 960 enrolled 807	eligible not reported enrolled 541
Sample size at final evaluation	5349	not reported	5059	6291	1752	1330	not reported	416
Age (mean)	≥18yrs (39)	40-60yrs (50)	≥40yrs (62)	25-74yrs (43)	≥40yrs (51)	≥65yrs (77)	>40yrs	24-60yrs
Possible to stratify on age?	yes	yes	yes	no	yes	yes	no	yes
Sex (%)	females (100)	males (45) females (55)	males (46) females (54)	males (46) females (54)	males (44) females (56)	males (46) females (54)	males (54) females (46)	males (50) females (50)
Race/ethnicity	Hausa tribe (7.5) Ibo tribe (22.0) Yoruba tribe (11.5)	10 SA ethnicities (47) 8 BF ethnicities (19) 8 Ghana	SA (70) Mozambican/ot her (30)	Asian Indian (68) Chinese (3) Creoles (27)	not reported	not reported	not reported	not reported

Name of cohort	ACCME's HPV and Cervical Cancer Study Other tribes (59.0)	AWI-Gen ethnicities (18) 13 Kenya ethnicities (18)	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in DRC	The Benin Study
Rural/urban location (%)	rural (12) semi-rural (46) urban (42)	not reported	rural (100)	not reported	urban (100)	rural (34) urban (26) semi-urban (40)	not reported	rural (31) urban (37) semi-urban (32)
Comparison groups	HPVø (6727) vs HPV+ (4773)	SA (4848) BF (2079) Ghana (1988) Kenya (1942)	HIVø (3279) vs HIV+ (1134) dyslipidaemic (2860) vs non- dyslipidaemic (1387)	Mauritian Indian (9024) vs Mauritian Creole (1075) diabetic (628) vs non-diabetic (3317)	none reported	major depressive disorder cases (134) vs non (2015) hypertensive (973) vs normotensive (496)	with metabolic syndrome (393) vs without metabolic syndrome (414)	insulin resistant (106) vs non- insulin resistant (310)

ART: antiretroviral therapy; MUg: Mildmay Uganda Clinic; BP: blood pressure; CC: cervical cancer; HPVø: HPV negative; HIVø: HIV negative; HDSS: Health & Demographic Surveillance Systems; CVD: cardiovascular diseases

STable 5d: Participant characteristics of included studies with only adults aged >18 yrs, sampled from occupational and clinical populations

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
Sampling frame	a single mine	1 clinic	primary care facilities within Lusaka	Perinatal HIV Research Unit, urban Wellness clinic	three hospitals	secondary and tertiary hospitals	HIV outpatient clinic in BF and HIV treatment centres in SA	DART Trial, RCC, GPC, Entebbe Pre-ART cohort
Inclusion criteria	included miners originally from Lesotho laid off from a single mine	included HIV+ patients seen at TLC, ≥18yrs, either treatment-naïve or switched onto ART regimen containing 300mg tenofovir daily since Apr 2004 and by Oct 2011	included adults ≥15yrs, treatment- naïve/newly initiating ART, with baseline creatinine	included adults ≥18yrs	included nulliparous women at gestational ages <20wks; excluded pre- existing conditions (including hypertension), previous spontaneous abortions	included women ≥18yrs presenting with new primary BC diagnosis; excluded women already receiving treatment, benign lesions	included HIV-1 seropositivity, aged 25-50yrs, resident in the city; excluded history of prior CC treatment, previous hysterectomy, pregnant or <8wks post- partum, women with CIN2+ at baseline from follow-ups	included HIV+ adults ≥18yrs, on ART/eligible to initiate, not participating in another study; excluded those too sick to undergo study procedures
Subject flow (# eligible # enrolled)	eligible 779 enrolled 624	eligible not reported enrolled 30000	eligible 36289 enrolled 25779	eligible not reported enrolled 3635	eligible not reported enrolled 3000	eligible 2100 enrolled 2100	eligible 1473 enrolled 1077	eligible 1108 enrolled 1095
Sample size at final evaluation	553	ongoing accrual	9633	3308	2630	2100	963	not reported
Age (mean)	30-59yrs (49)	>18yrs	>15yrs	≥18 (33)	(27)	≥18yrs	25-50yrs BF (36:median) SA (34:median)	≥18 (45)
Possible to stratify on age?	no	yes	no	no	yes	no	no	yes
Sex (%)	males (100)	males (36) females (64)	males (40) females (60)	males (22) females (78)	females (100)	females (100)	females (100)	males (35) females (65)

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
Race/ethnicity	not reported	SA (91) non-SA (9) other (0)	not reported	not reported	not reported	Namibia - black (22) Namibia - non-black (6) Nigeria (21) SA - black (19) SA - non-black (2) Uganda (22) Zambia (88)	not reported	not reported
Rural/urban location (%)	rural (100)	urban (100)	urban (100)	not reported	not reported	rural (47) urban (53)	not reported	rural (47) urban (53)
Comparison groups	none reported	pre-ART (8217) vs ART (21101)	none reported	none reported	none reported	none reported	BF (583) SA (494)	non-TDF ART (385) vs TDF ART (568)

ART: antiretroviral therapy; TDF: tenofovir' MUg: Mildmay Uganda Clinic; BP: blood pressure; BC: breast cancer; CC: cervical cancer; RCC: Rakai Community Cohort; GPC: General Population Cohort; DART: Development of Antiretroviral Therapy; HIVø: HIV negative;

STable 5d continued: Participant characteristics of included studies with only adults aged >18yrs, sampled from occupational and clinical populations

Name of				
cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	UARTO Cohort
Sampling frame	two hospitals in Accra	grassroots women's orgs, HIV clinics	six referral facilities	Mbara Regional Referral Hospital
Inclusion criteria	excluded women with previously established chronic hypertension and <17wks pregnancy	included women ≥25yrs, present in Rwanda during 1994, no history of ART except single-dose nerivapine to prevent mother-to-child transmission	included women who gave birth over 12mo period	included treatment-naïve/newly initiating ART, ≥18yrs, living within 60km of clinic
Subject flow (# eligible # enrolled)	eligible not reported enrolled 1010	eligible not reported enrolled 936	eligible not reported enrolled 709	eligible 1020 enrolled 500
Sample size at final evaluation	824	not reported	567	771
Age (mean)	≥18 (28)	≥25 HIV+ (35) HIVø (42)	(26)	≥18yrs (34)
Possible to stratify on age?	no	yes	no	no
Sex (%)	females (100)	females (100)	females (100)	males (30) females (70)
Race/ethnicity	not reported	not reported	not reported	not reported
Rural/urban location (%)	rural (3) Accra (77) other urban (18)	not reported	semi-urban (100)	rural (100)
Comparison groups	normotensive (700) vs pregnancy induced hypertension (59) vs preeclampsia (14) vs chronic hypertension (2)	HIV+ (710) vs HIVø (226)	women with live birth (205) vs women with perinatal death (64) vs women with normal delivery (440)	3+ visits with high BP (73) vs no visits with high BP (157)

HIVø: HIV negative

STable 6a: Characteristics of chronic NCD data of included studies with children and young adults aged <20 years, sampled from general populations

Name of cohort	BT20	Seychelles Child Development Study	The Lungwena Child Survival Study
Hypertension definition	hypertension defined using age, sex and height standardised percentile tables for BP classification, where hypertension ≥95th percentile	hypertension not defined	hypertension not measured
Source of measurement	BP measured in triplicate using Omron M6 after participant had been sitting for 5min with resting intervals of 2min; average of three used to define status	BP measured in triplicate using Omron M5 after participant had been sitting for 50min; average of three used to define status	
# of time points measured	6	≥4	
Reporting of chronic NCD	point prevalence	none reported	
Estimate in total sample	14.8		
Associated risk factor(s) reported	SES, age, weight and height at 18yrs, relative weight gain		
Diabetes definition	diabetes defined as glucose ≥6.1mmol/L or receiving treatment for diabetes	diabetes not measured	obesity BMI cut-off charts for children used to calculate corresponding overweight cut-offs
Source of measurement	glucose concentrations measured using enzymatic methods on auto-analyser (Randox Daytona Clinical Analyser)		weight measured using spring scale until age 12mo, thereafter with digital bathroom scale to nearest 100g height measured with locally constructed height boards to nearest 5mm in supine until able to stand
# of time points measured	2		≥2
Reporting of chronic NCD	point prevalence		point prevalence
Estimate in total sample	14.3		0
Associated risk factor(s) reported	gender, obesity		none reported
Obesity definition	obesity defined using WHO cut-off points for children 5-19yrs, where obesity BMIz ≥2.0SD from reference median	obesity defined using IOTF criteria corresponding to adult BMI of 30kg/m2 (British 1990 BMI SD >=+2.37 and >=+2.25 in boys and girls, respectively)	obesity not measured

			II
Name of cohort	BT20	Seychelles Child Development Study	The Lungwena Child Survival Study
Source of measurement	weight measured using digital scale to	weight measured using precision electronic	
	nearest 1000g with participants wearing light	scale (Seca 870)	
	clothing, no shoes	height measured with fixed stadiometer	
	height measured using portable stadiometer	(Seca 208)	
	to nearest 1mm with participants wearing		
	light clothing, no shoes		
# of time points measured	15	≥4	
Reporting of chronic NCD	incidence	prevalence	
Estimate in total sample	20.5	3.8%	
Associated risk factor(s)	gender, overweight/ obesity in infancy/	weight gain during first year of life, increased	
reported	toddlerhood and early childhood, early	maternal BMI	
	menarche		
CKD definition	CKD not measured	CKD estimated GFR using Cockcroft-Gault	CKD not measured
		formulae	
Source of measurement		fasting venous blood samples measured	
		using standard enzymatic methods (Thermo	
		Konelab 30 automatic analyser)	
# of time points measured		≥4	
Reporting of chronic NCD		mean (SD)	
Estimate in total sample		130.7(33.6)	
Associated risk factor(s) reported		none reported	

BMI: body mass index; BP: blood pressure; IOTF: International Obesity Task Force; SD: standard deviation; SES: socio-economic status; GFR: glomerular filtration rate; IOTF: International Obesity Task Force

STable 6b: Characteristics of chronic NCD data of included studies with mixed (children and adults) populations, sampled from general and clinical populations

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Hypertension definition	high BP not measured	high BP in 5-18yrs defined as SBP and/or DBP that is ≥95th percentile for sex, age, and age- specific height z scores in this population high BP in >18yrs defined as SBP ≥140mmHg and/or DBP ≥90mmHg and/or on antihypertensive medication the 3mo prior and/or being diagnosed as hypertensive in MRC Keneba clinical database	hypertension defined as SBP ≥140mmHg and/or DBP ≥90mmHg, or self-reported use of antihypertensive medications	hypertension defined as SBP ≥140mmHg and/or DBP ≥90mmHg, or self-reported use of antihypertensive medications	hypertension defined as average SBP and/or DBP that is ≥95th percentile for sex and age	hypertension defined as SBP ≥140mmHg and/or DBP ≥90mmHg on ≥2 visits	target pre- haemodialysis BP defined as SBP ≤140mmHg and/or DBP ≤90mmHg target post- haemodialysis BP defined as SBP ≤130mmHg and/or DBP ≤80mmHg
Source of measurement		BP measured in triplicate with Omron 705IT with resting intervals of 5min; average of second and third used to define status	BP measured in triplicate using Omron M4-1 after participant had been sitting for ≥15min with resting intervals of 5min; mean of second and third readings used to define status	BP measured in triplicate using Omron Hem 700`E after participant had been sitting for ≥5min; mean of three used to define status	BP measured in triplicate using electronic Micronta monitoring kit after participant had been sitting for ≥5min; average of three used to define status	BP measured using manual sphygmomanometer	BP measured prior, during, and after haemodialysis
# of time points measured		≥12	2	2	13	6	2
Reporting of chronic NCD		prevalence	age-adjusted prevalence	prevalence	prevalence	age-standardised prevalence	percentage achieving both pre- and post- haemodialysis BP

Name of cohort	RCCS	Kiang West Longitudinal Population Study 5-18yrs (8)	GPC 7.1	Bukavu Observ Study	Ellisras Longitudinal Study 1-11.4%	Mildmay Uganda Cohort 24.8%	Prospective cohort study in Sudan 20.3%
total sample		>18 (18)	7.1	2040%	1-11.4%	24.8%	20.3%
Associated risk factor(s) reported		age, BMI z-score, haemoglobin, high fasting glucose	lipids	none reported	weight-for-age z- scores, sum of four skinfolds, underweight	none reported	none reported
Diabetes definition	diabetes not measured	diabetes defined as fasting plasma glucose of ≥7mmol/L or receiving treatment for diabetes at MRC Keneba clinic	diabetes defined as HbA1c >6.5%	diabetes defined as fasting glucose ≥126mg/dol and/or taking diabetes medication	pre-diabetes defined as plasma glucose 5.6-6.9mmol/L	diabetes not measured	diabetes not measured
Source of measurement		fasting plasma glucose measured using Accu Check	HbA1c measured from whole-blood samples, analysis performed using Cobas Integra 400 plus chemistry analyser	glucose concentration analysed by glucose oxidase method using portable electronic monitor (Codefree)	fasting plasma glucose collected and stored for later analysis		
# of time points measured		≥12	2	1	≥1		
Reporting of chronic NCD		prevalence	age-adjusted prevalence	prevalence	prevalence		
Estimate in total sample		5-18yrs (0.8) >18 (0.7)	1.1	280%	males (46) females (50)		
Associated risk factor(s) reported		none reported	lipids	age, WC, BP	none reported		
Obesity definition	obesity not measured	obesity in 5-18yrs defined as weight- for-height z-scores >0.68 obesity in >18yrs defined as BMI ≥30	obesity defined as WC ≥94cm for men and ≥80cm for women	obesity defined as BMI ≥30 abdominal obesity defined as WC ≥94cm for both males and females	overweight defined according to the Cole et all BMI cut-off point	obesity not measured	obesity not measured

		Kiang West					
Name of cohort	RCCS	Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal	Mildmay Uganda Cohort	Prospective cohort
Source of	RCCS	weight measured to	WC measured in	weight measured to	Study weight measured to	Conort	study in Sudan
measurement		nearest 10g using	duplicate using Seca	nearest 100g using	nearest 0.1kg using		
		portable scales	201 Ergonomic	electronic scale	electric scale		
		(Tanita WB100)	Circumference	(Tanita HD-325) with	height measured to		
		height measured to	Measuring Tape to	participants in light-	nearest 0.1cm using		
		nearest 0.1cm using	noearest 0.1cm;	weight clothing	Martin		
		stadiometer without	mean of two used to	height measured	anthropometer		
		footwear or	define status	with a SECA mesband			
		headwear		206cm			
				WC measured using a			
				tape measure to the			
# of time points		≥12	2	nearest 0.5cm	13		
measured		212	2	3	13		
Reporting of		prevalence	age-adjusted	incidence	prevalence		
chronic NCD		- 10 (10)	prevalence	/+	1 / 0 / 00/)		
Estimate in total sample		5-18yrs (13)	10	535/100,000	males (3-4.9%)		
		>18 (37)			females (1.6-15.5%)		
Associated risk factor(s)		none reported	lipids	age, gender, PA	none reported		
reported							
CKD definition	CKD defined eGFR as	CKD not measured	CKD not measured	CKD not measured	CKD not measured	CKD not measured	CKD not measured
	mildly (60-89ml/min)						
	or moderately						
	reduced (<60ml/min)						
Source of	eGFR estimated						
measurement	using MDRD						
	creatinine						
	concentration measured from						
	blood sera using						
	rate-based enzymatic						
	assay (Roche)						
# of time points	≥2						
measured							
Reporting of	rates of eGFR decline						
chronic NCD	l l	l				I	

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Estimate in total sample	HIV positive (32) HIV negative (20)						
Associated risk factor(s) reported	HIV infection						

eGFR: estimated glomerular filtration rate; BP: blood pressure; MRC: Medical Research Council; WC: waist-circumference; PA: physical activity: HIVø: HIV negative

STable 6c: Characteristics of chronic NCD data of included studies with adults aged >18 years, sampled from general populations

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
Hypertensio n definition	hypertension defined as yes/no	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self- reported use of antihypertensive medication	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self- reported use of antihypertensive medication	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self- reported use of antihypertensive medication	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self- reported use of antihypertensive medication	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self- reported use of antihypertensive medication and/or previous diagnosis by physician	hypertension defined using IDF Europe criteria as SBP ≥130 and/or DBP ≥85	hypertension defined as SBP ≥130 and/or DBP ≥85
Source of measuremen t	BP measured in triplicate with OMRONVR BP760 after participate had been sitting for ≥15min with resting intervals of 1min	BP measured in triplicate with Omron M6 after participant had been sitting for ≥3min with resting intervals of 2min; average of second and third used to define status	BP measured in triplicate with Omron M6W after participant had been sitting for 5 \min with resting intervals of 2 \min; average of second and third used to define status	BP measured in duplicate using standard mercury sphygmomanom eter after participant had been sitting for ≥5min; average of two used to define status	BP measured in triplicate with Omro M2/Beurer BMI 40 after participant had been sitting for ≥5min with resting intervals of 2min; average of two used to define status	BP measured in triplicate with Omro MS-2 after participant had been sitting for ≥5min with resting intervals of 5min; average of three used to define status	BP measured in triplicate with standard mercury sphygmomanom eter after participant had been sitting for ≥30min with resting intervals of 2min; average of second and third used to define status	BP measured in duplicate with standard mercury sphygmomanom eter after participant had been sitting for ≥10min with resting intervals of 2min; average of two used to define status
# of time points measured	5	1	≥8	3	1 (1/5 with 2)	1	1	3
Reporting of chronic NCD	baseline prevalence	mean prevalence	prevalence	incidence	prevalence	12mo prevalence	point prevalence	4yr prevalence
Estimate in total sample	14.8	BF (15.1) SA (40.0) Kenya (25.6) Ghana (24.5)	58.4	12.1	37.0	10.3	12.5	22

Name of cohort Associated risk factor(s) reported	ACCME's HPV and Cervical Cancer Study none reported	AWI-Gen age, sex	HAALSI age, sex	NCD Intervention Programme age, ethnicity, 2h plasma glucose, BMI	DUCS-HTN obesity, physical inactivity, alcohol use	Ibadan Study of Aging sex, urban/semi- urban, overweight/ obesity	Prospective Cohort in Democratic Republic of Congo none reported	The Benin Study none reported
Diabetes definition	diabetes defined as yes/no	diabetes defined as fasting blood glucose >7.0mmol/L and/or receiving treatment for diabetes	diabetes defined as self-reported history and/or fasting blood glucose >7.0mmol/L and/or random blood glucose ≥11.1 and/or receiving treatment for diabetes	diabetes defined as self-reported history and/or fasting blood glucose >7.0mmol/L and/or 2h glucose ≥11.1 and/or receiving treatment for diabetes	history of diabetes defined as yes/no; using antidiabetic agents; using insulin	diabetes defined as self-reported history or receiving treatment for diabetes	diabetes defined as self-reported history and/or fasting blood glucose >7.0mmol/L and/or 2hglucose ≥11.1 and/or receiving treatment for diabetes	high fasting glycaemia defined as fasting blood glucose ≥5.6mmol/L
Source of measuremen t	glucose measured by testing spot urine samples with Multistix 10 SG reagent strip	fasting blood glucose measurement not reported	blood glucose collected from finger prick (CareSens N) and measured using CareSense N Monitor	fasting blood glucose measured using YSI glucose analysers within 3h of collection OGTT status determined according to 1999 WHO criteria	questionnaire	questions from US Health Interview Survey	fasting blood glucose analysed with glucometer (Ascnecia Elite) that adjusts capillary measurements to plasma values OGTT classification using WHO criteria	fasting blood glucose analysed using Elitechgroup kits
# of time points measured	1	1	≥8	3	1	1	8	3
Reporting of chronic NCD	baseline prevalence	not reported	prevalence	incidence	prevalence	12mo prevalence	incidence	4yr prevalence
Estimate in total sample	2		11	15.9	6	2	29/1,000pys	20

Name of cohort Associated risk factor(s) reported	ACCME's HPV and Cervical Cancer Study none reported	AWI-Gen	HAALSI age, sex	NCD Intervention Programme year of study, sex, ethnicity, obesity, BP, lipids	DUCS-HTN none reported	Ibadan Study of Aging urban, high SES	Prospective Cohort in Democratic Republic of Congo age, physical inactivity, non- diabetic hyperglycaemia, metabolic syndrome	The Benin Study none reported
Obesity definition	obesity definition not reported	obesity defined as BMI ≥30	obesity defined according to WHO: obese Grade I 30.0-34.9; obese Grade II 35.0-39.9; extreme obesity ≥40	obesity defined as BMI ≥30	obesity defined as obese Grade I 30-35; obese Grade II >35	obesity not measured	obesity defined using IDF Europe criteria as WC >94cm in men and >80cm in women	obesity defined as BMI ≥30 abdominal obesity defined as ≥80cm for females and ≥94cm for males
Source of measuremen t	weight and height collected	not reported	weight measured to nearest 0.1kg using Genesis Growth Management Scale height measured to nearest 0.1cm	not reported	weight measured using digital scale (Seca) to nearest 0.1Kg with participants wearing light clothing height measured to the nearest 1cm with participants not wearing shoes		WC measured with flexible tape to nearest 1mm with participants standing, heels together	weight measured in sitting position height measured in standing position WC measured in standing position
# of time points measured	1	1	1	1	2		1	3
Reporting of chronic NCD	not reported	not reported	prevalence	not reported	prevalence		prevalence	4yr prevalence
Estimate in total sample			Grade I (17.7) Grade II (7.4) extreme (4.9)		Grade I (19) Grade II (10)		17	obese (24.3) abdominal (42.3)

Name of cohort Associated risk factor(s)	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI none reported	NCD Intervention Programme	DUCS-HTN none reported	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo none reported	The Benin Study none reported
reported								
CKD definition	CKD defined as yes/no	CKD not measured	CKD not measured	CKD not measured	CKD not measured	CKD not measured	CKD not measured	CKD not measured
Source of measuremen t	spot urine samples collected and tested with Multistix 10 SG reagent strip							
# of time points measured	1							
Reporting of chronic NCD	baseline prevalence							
Estimate in total sample	0							
Associated risk factor(s) reported	none reported							
CKD definition	CC defined using histology	CC not measured	CC not measured	CC not measured	CC not measured	CC not measured	CC not measured	CC not measured
Source of measuremen t	pelvic examinations; colposcopy and biopsy for all with persistent hrHPV infection and CIN2+ lesion							
# of time points measured	5							
Reporting of chronic NCD	not reported							
Estimate in total sample								

	ACCME's HPV and						Prospective Cohort	
Name of	Cervical Cancer			NCD Intervention		Ibadan Study of	in Democratic	
cohort	Study	AWI-Gen	HAALSI	Programme	DUCS-HTN	Aging	Republic of Congo	The Benin Study
Associated								
risk factor(s)								
reported								

BP: blood pressure; WC: waist-circumference; OGTT: oral glucose tolerance test; CC: cervical cancer; IDF: International Diabetes Federation; ART: antiretroviral therapy

STable 6d: Characteristics of chronic NCD data of included studies with adults aged >18 years, sampled from occupational and clinical populations

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Name of cohort	Basotho Gold	TIGO II ASI A	Cohort of HIV- infected, ART-naïve	Operational cohort of treatment naïve HIV-infected men	Prospective cohort of nulliparous		uann cu d	0.17407.511
	Miners Cohort	TLC Cohort Study	adults	and women	women	ABC-DO Study	HARP Study	CoLTART Study
Hypertension definition	hypertension not measured	hypertension not measured	hypertension not measured	hypertension not measured	hypertension defined as SBP ≥140 and/or DBP ≥90 gestational hypertension defined as hypertension that develops after 20th gestation wk without proteinuria and if returns to normal in postpartum pre-eclampsia defined as both hypertension and proteinuria	high BP defined as yes/no	hypertension not measured	hypertension defined as SBP ≥140 and/or DBP ≥90 and/or self-reported use of antihypertensive medication and/or previous diagnosis by physician
Source of measurement # of time					measurement not reported proteinuria measured from 24hr urine specimen or semi- quantitative dip stick 2	questionnaire		BP measured using standard Omron M6
points measured								

Name of cohort Reporting of chronic NCD Estimate in total sample	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women incidence of hypertension 29	ABC-DO Study prevalence at baseline not reported	HARP Study	Coltart Study baseline prevalence 23.1
Associated risk factor(s) reported					cohabitation, previous abortions	ethnicity, age, BMI, alcohol intake, smoking, diabetes		protease inhibitor containing regimens
Diabetes definition	diabetes not measured	diabetes not measured	diabetes not measured	diabetes not measured	diabetes not measured	diabetes defined as yes/no	diabetes not measured	diabetes defined as self- reported history and/or fasting blood glucose ≥6.4mmol/L and/or 2h glucose ≥11.1 and/or receiving treatment for diabetes
Source of measurement						questionnaire		fasting blood glucose measured using Cobas Integra 400 plus
# of time points measured						1		3
Reporting of chronic NCD						prevalence at baseline		baseline prevalence
Estimate in total sample						not reported		4
Associated risk factor(s) reported						ethnicity, age, BMI, high BP		age

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
Obesity definition	obesity not measured	obesity not measured	obesity not measured	obesity defined as BMI≥30	obesity not measured	obesity defined as BMI≥30	obesity not measured	abdominal obesity defined asWHR ≥0.95 for males and ≥0.85 for females or WC ≥94cm for males and ≥80cm for females
Source of measurement				weight measurement not reported height measurement not reported		weight measurement not reported height measurement not reported		weight measured using Seca digital scale height measured using portable Seca 213 Leicester stadiometer WC and HC measured using non-stretchable Seca 201 Ergomomic Circumference Measuring tape
# of time points measured				≥15		1		3
Reporting of chronic NCD				baseline prevalence		prevalence at baseline		baseline prevalence
Estimate in total sample Associated risk factor(s)				0.18 none reported		not reported ethnicity, age		0.526 protease
risk factor(s) reported				·		,, ,		inhibitor

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study containing regimens
CKD definition	CKD not measured	CKD defined eGFR as mildly (60-89ml/min), moderately (30- 59ml/min), or severely reduced (<30ml/min)	renal insufficiency defined eGFR as mildly (60- 89ml/min), moderately (30- 59ml/min), or severely reduced (<30ml/min) or creatinine clearance as mild (121- 150mmol/L), moderate (151- 200), or severe (>200)	CKD not measured	CKD not measured	CKD not measured	CKD not measured	abnormal renal function defined as serum urea >11.9mmol/L or serum creatinine >109µmol/L
Source of measurement		eGFR estimated using Cockcroft- Gault	eGFR estimated from creatinine clearance prior to ART initiation; performed secondary analysis using MDRD and serum creatinnie levels alone					measured using Cobas Integra 400 plus creatinine measured from mid-stream urine using Roche Integra 400 plus
# of time points measured		14-56	1					3

Name of cohort Reporting of chronic NCD	Basotho Gold Miners Cohort	TLC Cohort Study 48mo prevalence	Cohort of HIV- infected, ART-naïve adults prevalence	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study overall prevalence
		mortality						
Estimate in total sample		mild (30.4) moderate (5.2) severe (0) normal (3.0/100pys) mild (5.5) moderate (21.9) severe (0)	34					0.006
Associated risk factor(s) reported		nephrotoxicity	none reported					none reported
Cancer definition	Not measured	Not measured	Not measured	CC defined using 2001 Bethesda system	Not measured	BC defined using histological or cytological confirmation	CC defined using histology as 'negative' (≤CIN1) or 'positive' (CIN2+)	Not measured
Source of measurement				conventional pap smears performed		obtained from medical records	cervical samples collected using cytobrush, assessed clinically using VIA or Lugol's iodine; all participants referred for colposcopy	

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
# of time points measured		,		≥2		1	2	
Reporting of chronic NCD				prevalence progression from normal to LSIL or HSIL		Not applicable; all participants had BC at baseline	cumulative incidence	
Estimate in total sample				38% 4.6/100pys		NA	BF (1.2) SA (5.8)	
Associated risk factor(s) reported				CD4<200		ethnicity, education, having never heard of BC, employment, pregnancy in past 3yrs, age, SES	ART	
COPD definition	COPD defined using GOLD staging system; Grade 0: FEV1/FVC ratio ≥0.7 and respiratory symptoms (cough and sputum ≥3mo)	COPD not measured	COPD not measured	COPD not measured	COPD not measured	COPD defined as yes/no	COPD not measured	COPD not measured

		<u> </u>	1	0	П	<u> </u>	I	1
			Cohort of HIV-	Operational cohort of treatment naïve	Prospective cohort			
Name of	Basotho Gold		infected, ART-naïve	HIV-infected men	of nulliparous			
cohort	Miners Cohort	TLC Cohort Study	adults	and women	women	ABC-DO Study	HARP Study	CoLTART Study
Source of	spriometry					questionnaire		
measurement	measured					94.000.0		
	without							
	bronchodilation							
	using Hands							
	Rudolph							
	pneumotachogr							
	aph							
	symptom							
	questionnaire							
	included							
	duration of							
	respiratory							
	symptoms,							
	medical history,							
	past/present TB,							
	smoking, alcohol							
# of time points	2					1		
measured								
Reporting of	mean decline in					not reported		
chronic NCD	FEV1					'		
	mortality							
Estimate in	91ml(67-116)							
total sample	32(37 223)							
	18							
Associated risk factor(s)	age, years of							
reported	employment,							
	history of TB,							
	active baseline							
	TB, silicosis at							

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
	baseline and follow-up							

eGFR: estimated glomerular filtration rate; BP: blood pressure; WC: waist-circumference; PA: physical activity; BC: breast cancer; CC: cervical cancer; IDF: International Diabetes Federation; GOLD: Global Initiative for Chronic Obstructive Lung Disease; ART: antiretroviral therapy; AJCC: American Joint Committee on Cancer; TNM: Classification of Tumour Malignancy; HIVø: HIV negative; VIA: visual inspection with acetic acid; TB: tuberculosis

STable 6d continued: Characteristics of chronic NCD data of included studies with adults aged >18 years, sampled from occupational and clinical populations

Name of cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	UARTO cohort
Hypertension definition	gestational hypertension defined as hypertension that develops after 20th gestation wk without proteinuria and if returns to normal in postpartum pre-eclampsia defined as both hypertension and proteinuria	hypertension defined as yes/no	gestational hypertension defined as BP ≥140/90 or increase in SBP>30 or DBP >15 with ≥1 other sign of severity such as convulsion or coma	hypertension defined as SBP ≥140 and/or DBP ≥90 one 3 consecutive visits or self-reported use of antihypertensive medication after ART initiation
Source of measurement	BP measurement not reported	questionnaire	BP measurement not reported	BP measured using aneroid sphygmomanometer (Welch Allyn Tycos 767)
# of time points measured	≥2	≥2	2	≥3
Reporting of chronic NCD	incidence	baseline prevalence	prevalence at 6mo prevalence at 12mo	increase in SBP per year
Estimate in total sample	7.5	HIV+ (4.8) HIVØ (8.3)	3	9.6mmHg/year
Associated risk factor(s) reported	none reported	none reported	none reported	age, sex, overweight, CD4<100
Diabetes definition	diabetes not measured	diabetes not measured	diabetes not measured	diabetes not measured
Source of measurement				
# of time points measured				
Reporting of chronic NCD				
Estimate in total sample Associated risk factor(s) reported				
Obesity definition	obesity not measured	obesity not measured	obesity not measured	obesity defined as BMI ≥30

Name of cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	UARTO cohort
Source of measurement				weight measured to nearest 1Kg with Seca 762 and participants wearing light clothing, no shoes height measured to nearest 0.1cm with Seca 206, no shoes
# of time points measured				≥3
Reporting of chronic NCD				baseline prevalence
Estimate in total sample				0.026
Associated risk factor(s) reported				none reported
CKD definition	CKD not measured	CKD not measured	CKD not measured	CKD not measured
Source of measurement				
# of time points measured				
Reporting of chronic NCD				
Estimate in total sample				
Associated risk factor(s) reported				
Cancer definition	Not measured	Not measured	Not measured	Not measured
Source of measurement				
# of time points measured				
Reporting of chronic NCD				
Estimate in total sample				
Associated risk factor(s) reported				
COPD definition	COPD not measured	COPD not measured	COPD not measured	COPD not measured
Source of measurement				
# of time points measured Reporting of chronic NCD				
Estimate in total sample				
Associated risk factor(s) reported				

STable 7a: Characteristics of risk factor data of included studies with children and young adults aged <20 years, sampled from general populations

Name of cohort	BT20	Seychelles Child Development Study	Lungwena Child Survival Study
Demographic & Environmental Risk Factor(s)			
Education definition	education definition not reported	highest of parents' occupations defined as non-manual skilled; intermediate skilled; other	SES not defined
Source of measurement	questionnaire	not reported	asset score initially derived based on HH assets
# of time points measured	5	1	1
Occupation definition	occupation definition not reported	Not measured	Not measured
Source of measurement	questionnaire		
# of time points measured	5		
SES definition	SES defined as low, middle, and high tertiles; measured using a physical asset-based household SES measurement tool	Not measured	Not measured
Source of measurement	questionnaire		
# of time points measured	2		
Environmental Risk Factor(s)			
Definition	Not measured	Not measured	Not measured
Source of measurement			
# of time points measured			
Lifestyle Risk Factor(s)			
Smoking status definition	smoking status definition not reported	Not measured	Not measured
Source of measurement	questionnaire		
# of time points measured	≥3		
Alcohol use definition	alcohol use definition not reported	Not measured	Not measured
Source of measurement	questionnaire		
# of time points measured	≥3		
Poor diet definition	poor diet definition not reported	infant weaning defined as appropriate when weaning porridges introduced only after 2mo and family foods before 7mo	Not measured
Source of measurement	measured from longitudinal food frequency analyses using questionnaire data on what/how often foods eaten	structured questionnaire used to interview guardian about food items given to infant	

Name of cohort	BT20	Seychelles Child Development Study	Lungwena Child Survival Study
# of time points measured	6	1	
Physical inactivity definition			
Source of measurement	Not measured	Not measured	Not measured
# of time points measured			
Breastfeeding definition	breastfeeding definition not reported	Not measured	breastfeeding infants considered "exclusively breastfed" until date they received something other than breast milk
Source of measurement	not reported		structured questionnaire used to interview guardian about food items given to infant
# of time points measured	6		1
Puberty definition	age at menarche for females and age of transition from Tanner 1 to Tanner 2 for males	Not measured	Not measured
Source of measurement	questionnaire		
# of time points measured	1		
Sexual behaviour definition	Not measured	Not measured	Not measured
Source of measurement			
# of time points measured			
Physiological Risk Factor(s)			
Birthweight status definition	birthweight definition not reported	birthweight child weight at birth	Not measured
Source of measurement	obtained from hospital records	obtained from medical records	
# of time points measured	1	1	
Body composition definition	body composition defined using whole-body fat and fat-free mass	Not measured	Not measured
Source of measurement	DXA measured according to OSCD using Hologic QDR 4500A		
# of time points measured	7		
Cholesterol definition	abnormal lipids definition not reported	Not measured	Not measured
Source of measurement	not reported		
# of time points measured	3		
Proteinuria definition	Not measured	Not measured	Not measured
Source of measurement			
# of time points measured			
HIV infection definition	HIV infection definition not reported	Not measured	Not measured
Source of measurement	not reported		
# of time points measured	1		

Name of cohort	BT20	Seychelles Child Development Study	Lungwena Child Survival Study
TB infection definition	Not measured	Not measured	Not measured
Source of measurement			
# of time points measured			
Anaemia definition	Not measured	Not measured	Not measured
Source of measurement			
# of time points measured			

SES: socio-economic status; HH: household; ISCD: International Society of Clinical Densitometry

STable 7b: Characteristics of risk factor data of included studies with mixed (children and adults) populations, sampled from general and clinical populations

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Demographic & Environmental Risk Factor(s)							_
Education definition	education defined as none; primary; secondary; tertiary	education for those aged≥18yrs, defined as attended ≥primary school	education defined as less than primary; incomplete primary; primary; junior/secondary; above secondary	education level (yrs) defined as 0, 1-6 (some or completed primary), 7-12 (some or completed secondary), ≥13 (some or completed tertiary)	education defined as primary or secondary	education defined as high school or higher; primary or less	Not measured
Source of measurement	questionnaire	not reported	questionnaire	questionnaire	not reported	not reported	
# of time points measured	11	≥1	13	2	≥1	≥1	
Occupation definition	occupation defined as agricultural/house work; bar/restaurant; boda boda/trucking; student; trader/shop keeper; other	Not measured	Not measured	Not measured	occupation defined as 'yes' if employed or 'no' if not	Not measured	Not measured
Source of measurement	questionnaire				questionnaire		
# of time points measured	11				1		

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
SES definition	Not measured	Not measured	SES defined as low, middle, and high tertiles of an asset index	SES definition not reported	Not measured	Not measured	Not measured
Source of measurement			questionnaire	measured from yearly census-like surveys			
# of time points measured			1	3			
Environmental exposure definition	aflatoxin exposure defined using AFB-Lys adducts in HIV negative participants	Not measured	aflatoxin exposure defined using AFB-Lys adducts in HIV negative participants	Not measured	Not measured	Not measured	Not measured
Source of measurement	randomly selected archived serum samples to analyse using Agilent 1200 HPLC-fluorescence system		randomly selected archived serum samples to analyse using Agilent 1200 HPLC-fluorescence system				
# of time points measured	4		8				
Lifestyle Risk Factor(s)							
Smoking status definition	Not measured	Not measured	smoking status defined using past, current and frequency	smoking status definition not reported	Not measured	Not measured	Not measured
Source of measurement			collected using WHO STEPwise questionnaire	collected using WHO STEPwise questionnaire			

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
# of time points measured			1	3			
Alcohol use definition	Not measured	Not measured	alcohol use defined using past, current and frequency	alcohol use definition not reported	Not measured	alcohol use defined as yes; no	Not measured
Source of measurement			collected using WHO STEPwise questionnaire	collected using WHO STEPwise questionnaire		questionnaire	
# of time points measured			1	3		~42	
Poor diet definition	Not measured	Not measured	insufficient fruit and veg consumption defined as <5 servings of fruit or vegs a day high staple consumption defined as >75th percentile	poor diet definition not reported	diet definition not reported	Not measured	Not measured
Source of measurement			collected using WHO STEPwise questionnaire	collected using WHO STEPwise questionnaire	measured using 24hr recall; average of 2- 24h dietary intake		
# of time points measured			1	3	1		
Physical inactivity definition	Not measured	Not measured	Not measured	moderate PA defined as walking fast for ≥10 min or displacement by bicycle	inactive PA defined as <600MET-min/wk	Not measured	Not measured

Name of cohort Source of measurement	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study collected using WHO STEPwise	Ellisras Longitudinal Study collected using IPAQ	Mildmay Uganda Cohort	Prospective cohort study in Sudan
# of time points measured				questionnaire 3	1		
Breastfeeding definition	Not measured	Not measured	breastfeeding definition not reported	Not measured	Not measured	Not measured	Not measured
Source of measurement			not reported				
# of time points measured			16				
Puberty definition	Not measured	Not measured	age at menarche definition not reported	Not measured	puberty defined using Tanner rating scale pictures ranging from 1 (no development) to 5 (matured stage)	Not measured	Not measured
Source of measurement			not reported		breast development and genital/pubic hair development stages assessed by visual inspection		
# of time points measured			not reported		1		

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Sexual behaviour definition	sexual behaviour in past yr defined as sexually active; multiple partners; non-marital partners among married persons; used alcohol before sex; sex with partner outside community; consistent condom use with non-marital partner	Not measured	sexual behaviour definition not reported	Not measured	Not measured	sexual behaviour defined as sexually active or not	Not measured
Source of measurement	questionnaire		self-reported			not reported	
# of time points measured	11		18			≥1	
Physiological Risk Factor(s)							
Birthweight status definition	Not measured	birthweight definition not reported	Not measured	Not measured	birthweight definition not reported	Not measured	Not measured
Source of measurement		recorded to the nearest 10g within 72hr of birth			recorded from immunization cards		
# of time points measured		1			1		
Body composition definition	Not measured	body composition definition not reported	Not measured	Not measured	Not measured	Not measured	Not measured

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Source of measurement		measured using digital bioimpedance analysis scale (Tanita)					
# of time points measured		≥12					
Cholesterol definition	Not measured	Not measured	abnormal lipids defined as raised total-C >5.2mmol/l, low HDL-C <1.0 (males) or <1.3 (females), raised triglycerides >1.7	abnormal lipids definition not reported	Not measured	lipids defined using Total-C, HDL	Not measured
Source of measurement			lipid measurement not reported	lipids measured from 4 mL of blood		lipid measurement not reported	
# of time points measured			1	1		≥1	
Proteinuria definition	Not measured			proteinuria definition not reported		testing not reported	
Source of measurement				qualitative proteinuria by dipstick		≥1	
# of time points measured				1			
HIV infection definition	HIV infection defined as positive or negative		HIV infection defined as positive if 3 of 3 tests are positive				

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
Source of measurement	finger stick for rapid testing; venous blood tested with ELISA and confirmed by western blot		1) tested using rapid testing algorithm 2) retested with 1/2 Stat-Pak 3) evaluated with Uni-Gold Recombinant HIV-1/2;				
# of time points measured	11		22				
TB infection definition	Not measured					current TB infection defined as no signs on treatmentl under investigation	
Source of measurement						testing not reported	
# of time points measured						≥1	
Anaemia definition	Not measured	anaemia defined using WHO criteria: 6-59 months <=11; 5- 11yrs <=11.5; 12- 14 <=12; non pregnant women <=12; pregnant women <=11; men <=13"	anaemia defined using the WHO criteria: mild ≥110 to <130 in males or ≥110 to <120 in females; moderate ≥80 to <110 in both; severe <80 in both				anaemia definition not reported
Source of measurement		Hb measured by Medonic M-series 3-part haemotology	Hb measured using Coulter AC.T 5 Diff CP analyser				Hb levels obtained from medical records

Name of cohort	RCCS	Kiang West Longitudinal Population Study	GPC	Bukavu Observ Study	Ellisras Longitudinal Study	Mildmay Uganda Cohort	Prospective cohort study in Sudan
		analyser or HemoCue					
# of time points measured		≥12	8				2

SES: socio-economic status; HH: household; Hb: haemoglobin; PA: physical activity; IPAQ: International Physical Activity Questionnaire; TB: tuberculosis

STable 7c: Characteristics of risk factor data of included studies with adults aged >18 years, sampled from general populations

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
Demographic & Environmental Risk Factor(s)								
Education definition	education defined as no formal schooling; primary; secondary; university; postgraduate	education definition not reported	education defined as no formal schooling; primary; some secondary; secondary or more	education defined as ≤3yrs; 4-9yrs; ≥10yrs	education defined as none; ≥some primary; ≥some secondary	Not measured	Not measured	education defined as no schooling; primary school; high school
Source of measurement	questionnaire	questionnaire	questionnaire	questionnaire	questionnaire			questionnaire
# of time points measured	1	1	≥8	≥1	1			≥1
Occupation definition	occupation defined as professional; self-employed; manual; skilled manual; student; unemployed	occupation definition not reported	occupation defined as employed; unemployed; homemaker	Not measured	occupation defined as retired/unemplo yed; self- employed; employed	Not measured	Not measured	Not reported
Source of measurement	questionnaire	questionnaire	questionnaire		questionnaire			
# of time points measured	1	1	≥8		1			

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
SES definition	SES defined using wealth index as lowest 40%, middle 40%, and highest 20%	SES defined using HH attributes	SES defined using wealth index quintiles	SES defined using HH monthly income into low (<2,000 Mauritian Rupee), middle (2,500-4,999), high (≥5,000)	SES defined as HH wealth index quintiles: richest; richer; average; poorer; poorest	SES defined as low if ratio of participant's total possessions to median number of poesssions in total sample is <0.5, low-average if 0.5-1.0, high-average if 1.0-2.0, high if >2.0	SES defined as high/low	SES defined as low; medium; high
Source of measurement	generated wealth index using PCA with varimax rotation to compute factor scores based on sum of ownership of HH items weighted by factor loading	questionnaire	questionnaire	questionnaire	created through PCA of HH characteristics and assets	assessed by taking inventory of 21 HH and personal items	questionnaire	assessed using HH amenity score as proxy for HH income
# of time points measured	1	1	≥8	≥1	1	1	1	≥1
Lifestyle Risk Factor(s)								
Smoking status definition	smoking status defined as age when use became regular; measure of use/daily and tutal duration;	smoking status definition not reported	smoking status defined as past/present; quantity; frequency; duration; type	smoking status defined as yes/no	smoking status defined as never; former; current, 0- 9/day; current, ≥10/day	smoking status defined as ever smoked; yes; no	smoking status defined as current smoker/non- smoker	smoking status defined as current; former (stopped ≤6mo prior); non- smoker

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
	preferred type/brand; start or successfully quit; exposure to second hand smoke							
Source of measurement	tools adapted from PhenX toolkit version 5.6	questionnaire	questionnaire	questionnaire	questionnaire	questionnaire	questionnaire	collected using WHO-STEPwise questionnaire
# of time points measured	≥1	1	≥8	≥1	1	2	1	≥1
Alcohol use definition	alcohol use defined as age when use became regular; measure of use/daily and tutal duration; preferred type/brand; start successfully quit	alcohol use definition not reported	alcohol use defined as ever consumed; daily quantity; type; binge drinking behaviours	alcohol use defined as yes/no	alcohol use defined as 0g/day; 0-10; >10	alcohol use defined as ever drank; yes; no	alcohol use defined as non- drinker/drinker	alcohol use defined as none (0g/day); moderate (≤15 for females, ≤20 for males); heavy (>15 for females, >20 for males)
Source of measurement	tools adapted from PhenX toolkit version 5.6	questionnaire	questionnaire	questionnaire	questionnaire; assumed 14g as standard drink portion size	questionnaire	questionnaire	collected using WHO-STEPwise questionnaire
# of time points measured	≥1	1	≥8	≥1	1	2	1	≥1

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
Poor diet definition	diet definition not reported	diet definition not reported	diet defined as consumption, frequency, quantity of fruit, vegetables, bread, soft drinks	Not measured	Not measured	Not measured	diet defined as Western-style breakfast with bread, tea and milk, butter, margarine, eggs, animal fat and protein vs African traditional diet with cassaca or maize and vegetables	diet defined as low, medium, high food score
Source of measurement	Nigerian food frequency questionnaire previously developed by study investigators	questionnaire	questionnaire				questionnaire	sentinel food consumption score calculated from short food frequency questionnaire of 10 food groups in last 3mo
# of time points measured	1	1	≥8				1	2
Physical inactivity definition	PA definition not reported	PA definition not reported	PA defined as type of work, excerise and sedentary activity; amount of time spent	Not measured	PA defined as highest (144.0- 1008.0MET/hrs/ wk); higher (47.0-141.3); average (14.7046.7); lower (4.4-14.0); lowest (0.0-4.0)	Not measured	physical inactivity defined by both 75th percentiles of seated and laying position time in hrs and MET value ranging 3- 6kcal/min	physical inactivity defined as ≥3 MET <30min or <3 MET, any duration

	ACCME's HPV and						Prospective Cohort	
Name of	Cervical Cancer			NCD Intervention		Ibadan Study of	in Democratic	
cohort Source of	Study modified	AWI-Gen exercise/general	International PA	Programme	collected using	Aging	Republic of Congo collected using	The Benin Study collected using
measurement	Harvard School	PA	Questionnaire		GPAQ to assess		GPAQ with	WHO-STEPwise
	of Public	questionnaire	Questionnane		PA for work,		Comparative	questionnaire
	Health's Nurses'	questionnaire			transportation,		Risk Asessment	questionnaire
	Health Study II				leisure		methodology	
	PA							
	questionnaire							
# of time	≥2	1	≥8		1		1	≥1
points measured								
Breastfeeding definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of								
measurement								
# of time points								
measured								
Puberty	puberty defined	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
definition	as age start of							
	regular periods							
Source of measurement	questionnaire							
# of time	5							
points								
measured Sexual	sexual	Not measured	sexual	Not measured	Not measured	Not measured	Not measured	Not measured
behaviour	behaviour	Not measured	behaviour	Not measured	Not measured	Not measured	Not measured	Not measured
definition	defined as		definition not					
	history of sexual		reported					
	intercourse		'					
	(vaginal, anal,							
	oral), use of							
	contraceptive,							
	sex							
C	toys/lubcricants							
Source of measurement	questionnaire		questionnaire					

Name of	ACCME's HPV and Cervical Cancer			NCD Intervention		Ibadan Study of	Prospective Cohort in Democratic	
cohort	Study	AWI-Gen	HAALSI	Programme	DUCS-HTN	Aging	Republic of Congo	The Benin Study
# of time	2		≥1				The part of the pa	,
points measured								
Physiological								
Risk Factor(s)								
Birthweight	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
status	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
definition								
Source of								
measurement								
# of time								
points								
measured								
Body composition definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of								
measurement								
# of time								
points measured								
Cholesterol definition	abnormal lipids defined as yes/no	abnormal lipids defined using HDL, LDL, Total- C, Tg	abnormal lipids defined as questionnaire history; measured Total- C ≥6.2mmol/L or LDL>4.1 or HDL <1.19 or Tg >2.25 or taking medication for condition	abnormal lipids defined using HDL, Total-C, Tg	Not measured	Not measured	abnormal lipids defined using Tg and HDL	abnormal lipids defined as Tg >1.70mmol/L, HDL ≤1,29 in females and ≤1.03 in males
Source of measurement	lipid measurement not reported	lipids measured from fasting blood samples	lipids measured using finger prick PTS Panel #1710 lipid panel test strips	lipids measured using fasting blood samples analysed with manual enzymatic	Not measured	Not measured	lipids measured using fasting serum and plasma samples collected, frozen	lipids measured using fasting blood samples collected, frozen at -30C, and

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
CONOT	July	AWI-Gen	(Cardio Chek PA Silver version)	methods (1987) and Chemistry Profile Analyzer Model LS (Coultronics) (1992,1998)	BOCS-IIIN	751115	at -20C, and analysed	analysed with Elitechgroup kits
# of time points measured	2	1	≥8	2			1	3
Proteinuria definition	proteinuria definition not reported	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement	spot urine samples collected and tested with Multistix 10 SG reagent strip							
# of time points measured	1							
HIV infection definition	Not measured	HIV infection definition not reported	HIV infection defined as positive if confirmatory test was positive	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement		testing offered to participants on voluntary basis	determined 1) Vironostika Unifrom 11 screening assay; 2) if positive, confirmed using Roche Elecys					
# of time points measured		1	≥8					

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
HPV infection definition	HPV-DNA defined as HPV positive/HPV negative	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement	Cervical exfoliated samples anlaysed for HPV and hrHPV using SPF10 PCR-DEIA- LIPA25, version 1							
# of time points measured	2							
TB infection definition	Not measured	Not measured	TB infection definition not reported	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement			questionnaire					
# of time points measured			≥8					
Anaemia definition	Not measured	Not measured	anaemia defined as mild 12.9g/dl-11 in males and 11.9- 11 in females; moderate 11-8 in both; severe <8 in females	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement			Hb measured using finger prick Hemocue Hb 201					

Name of cohort	ACCME's HPV and Cervical Cancer Study	AWI-Gen	HAALSI +microvette (Hemocue Hb 201 +Analyser) ≥8	NCD Intervention Programme	DUCS-HTN	Ibadan Study of Aging	Prospective Cohort in Democratic Republic of Congo	The Benin Study
points measured Genetics	Not measured	genetics data held in genome- wide SNP genotype database	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measurement		H3Africa SNP array						
# of time points measured		1						

Hb: haemoglobin; PA: physical activity; TB: tuberculosis

STable 7d: Characteristics of risk factor data of included studies with adults aged >18 years, sampled from occupational and clinical populations

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
Demographi c & Environmen tal Risk Factor(s)								
Education definition	Not measured	education defined as no formal education; secondary; tertiary	Not measured	Not measured	education defined as none; primary; secondary; tertiary	education defined as <secondary></secondary> sec ondary	education defined as no schooling; primary/incompl ete secondary; completed secondary; graduate/postgr aduate; not known	education defined as incomplete primary/none; complete primary; ≥secondary
Source of measureme nt		questionnaire			questionnaire	questionnaire	questionnaire	questionnaire
# of time points measured		1			1	1	1	1
Occupation definition	Not measured	occupation defined as unemployed/em ployed	Not measured	occupation defined as employed/unem ployed	Not measured	occupation defined as skilled; unskilled; n/a	occupation defined as employed/unem ployed	occupation defined as peasant farmer; gainful employment; self- employed/busin ess; unemployed
Source of measureme nt		questionnaire		questionnaire		questionnaire	questionnaire	questionnaire
# of time points measured		1		≥15		1	1	1

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
SES definition	Not measured			SES defined using HH income as <100 Rand/mo; 1000- 5000; >5000		ses defined using sum of 9 equally weighted possessions as low (0-3), medium (4-6), high (7-9)		SES defined using HH asset score tertiles
Source of measureme nt				questionnaire		questionnaire		questionnaire
# of time points measured				1		1		1
Environmen tal exposure definition	silica dust exposure defined as no dust; low dust; medum dust; high dust	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measureme nt	classified by company occupational hygienest using data from mine's routine dust surveillance programme and miners' last jobs							
# of time points measured	2							
Lifestyle Risk Factor(s)								

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
Smoking status definition	smoking status defined as yes/no	Not measured	Not measured	Not measured	Not measured	smoking status defined as ever/never regularly smoked (>5 cig/day or use of snuff/wk for 6 mo)	smoking status defined as never/ever	smoking status defined as never; ex- smoker; current
Source of measureme nt	questionnaire					questionnaire	questionnaire	questionnaire
# of time points measured	2					1	1	1
Alcohol use definition	Not measured	Not measured	Not measured	Not measured	Not measured	alcohol intake defined as ever drank, now or in past; if yes, how often per wk	alcohol use defined as never; sometimes but <monthly; td="" ≥monthly<=""><td>alcohol use defined as never; ever >1mo prior; within <1mo</td></monthly;>	alcohol use defined as never; ever >1mo prior; within <1mo
Source of measureme nt						questionnaire	questionnaire	questionnaire
# of time points measured						1	1	1
Poor diet definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	diet defined as consumption of animal protein, fruit, vegetables, sugar, salt
Source of measureme nt								questionnaire
# of time points measured								1

Name of cohort	Basotho Gold Miners Cohort Not measured	TLC Cohort Study Not measured	Cohort of HIV- infected, ART-naïve adults Not measured	Operational cohort of treatment naïve HIV-infected men and women Not measured	Prospective cohort of nulliparous women Not measured	ABC-DO Study Not measured	HARP Study Not measured	CoLTART Study PA defined as
inactivity definition								low; moderate; high
Source of measureme nt								questionnaire
# of time points measured								1
Breastfeedin g definition	Not measured	Not measured	Not measured	Not measured	Not measured	breastfeeding defined as yes/no; if yes, for how long	Not measured	Not measured
Source of measureme nt						questionnaire		
# of time points measured						1		
Puberty definition	Not measured	Not measured	Not measured	Not measured	Not measured	puberty defined as age at first menstruation	Not measured	Not measured
Source of measureme nt						questionnaire		
# of time points measured						1		
Sexual behaviour definition	Not measured	Not measured	Not measured	Not measured	sexual behaviour defined using condom use as never; ever	Not measured	behaviour defined as age at fist sex; lifetime sexual partners; ever cleans vagina; # of partners in last	Not measured

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study 3mo; condom use	CoLTART Study
Source of								
measureme nt					questionnaire		1	
# of time points measured					1		≥1	
Physiologica I Risk Factor(s)								
Birthweight status definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measureme nt								
# of time points measured								
Body composition definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measureme nt								
# of time points measured								
Cholesterol definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	abnormal lipids defined as HDL<1, LDL>3.4, Total-C>5.2, TG>1.69, or Total-C-HDL

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study ratio>5.1 or being on lipid
								lower medicine
Source of measureme nt								lipids measured using Cobas Integra 400 plus
# of time points measured								3
Proteinuria definition	Not measured	Not measured	proteinuria defined as ≥0.3g of protein or 1+ or greater	Not measured	Not measured	Not measured	Not measured	Not measured
Source of measureme nt			24hr urine specimen or semi- quantitative dip stick					
# of time points measured			1					
HIV infection definition	HIV infection definition not reported	Not measured	HIV infection defined using WHO clinical staging	Not measured	Not measured	HIV infection defined as yes; no/not known	HIV infection defined as HIV-1 serostatus	Not measured
Source of measureme nt	urine specimen screened using GACPAT with GACELISA to confirm		not reported			questionnaire; medical records if HIV tested	blood samples collected	

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
# of time points measured	≥1		≥2			1	1	
HPV infection definition	Not measured	Not measured	Not measured	Not measured	Not measured	Not measured	HPV-DNA defined as high risk using International Agency for Research on Cancer classification: 'carcinogenic to humans' (HPV 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59) and 'probable carcinogenic' (HPV68)	Not measured
Source of measureme nt							cervical samples collected using Digene cervical sampler; HR-HPV testing performed using qualitative Digene hC-II; genotyping with INNO-LiPA HPV genotyping Extra assay	
# of time points measured							2	

Name of cohort TB infection definition	Basotho Gold Miners Cohort TB infection definition not reported	TLC Cohort Study Not measured	Cohort of HIV- infected, ART-naïve adults Not measured	Operational cohort of treatment naïve HIV-infected men and women TB infection defined as current (either an diagnosis occurred within 9mo, at baseline, or within 60 days after baseline) or past (diagnosis occurred ≥9 months prior to baseline)	Prospective cohort of nulliparous women Not measured	ABC-DO Study TB infection defined as yes/no	HARP Study Not measured	Coltart Study Not measured
Source of measureme nt	based on symptoms and/or chest radiography with 2 sputum samples collected from suspects for smear microscopy and liquid culture			>1 sputum sample collected from suspects for smear microscopy and liquid culture		questionnaire		
# of time points measured	2			2		1		
Anaemia definition	Not measured	Not measured	Not measured	Not measured	Not measured	anaemia defined as yes/no	Not measured	Not measured
Source of measureme nt						questionnaire		

Name of cohort	Basotho Gold Miners Cohort	TLC Cohort Study	Cohort of HIV- infected, ART-naïve adults	Operational cohort of treatment naïve HIV-infected men and women	Prospective cohort of nulliparous women	ABC-DO Study	HARP Study	CoLTART Study
# of time						1		
points								
measured								

PCA: principal components analysis; HH: household; PA: physical activity; Tg: triglycerides; GPAQ: Global Physical Activity Questionnaire; Hb: haemoglobin; SES: socio-economic status; Hb: haemoglobin

STable 7d continued: Characteristics of risk factor data of included studies with adults aged >18 years, sampled from occupational and clinical populations

Name of cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	Uganda AIDS Rural Treatment Outcomes (UARTO) cohort
Demographic & Environmental Risk Factor(s)	1 respective conservatory in Gilding		Trospective construction in Serial	(Critica) const.
Education definition	educaiton defined as no formal education; primary; lower secondary; upper secondary; higher tertiary	Not measured	education defined as any formal education/none	education defined as <primary></primary> primary
Source of measurement	questionnaire		questionnaire	questionnaire
# of time points measured	1		3	≥1
Occupation definition	occupation defined using economic activity as informal sector employment; formally employed; non-economically active	Not measured	Not measured	occupation defined as employed/unemployed
Source of measurement	questionnaire			questionnaire
# of time points measured	1			≥1
SES definition	Not measured	SES defined as income <10K Rwandan Francs; 10K-35K; >35K	SES defined using wealth quintiles as 1 (most poor) - 5 (least poor)	SES defined as HH asset wealth
Source of measurement		questionnaire	questionnaire	measured by applying PCA to 25 binary variables of HH assets and characteristics
# of time points measured		1	3	≥1
Lifestyle Risk Factor(s)				
Smoking status definition	Not measured	Not measured	Not measured	smoking status defined as never; past/current

				Uganda AIDS Rural Treatment Outcomes
Name of cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	(UARTO) cohort
Source of				questionnaire
measurement				
# of time points				≥1
measured				
Poor diet	Not measured	Not measured	Not measured	diet defined as average number of
definition				meals per wk with meat
Source of				questionnaire
measurement				
# of time points				1
measured				
Breastfeeding	Not measured	Not measured	Not measured	Not measured
definition				
Source of				
measurement				
# of time points				
measured				
Puberty	Not measured	Not measured	Not measured	Not measured
definition				
Source of				
measurement				
# of time points				
measured				
Sexual behaviour	Not measured	Not measured	Not measured	sexual behaviour defined as
definition				number of sexual partners in
				lifetime and incidences of rape
Source of				questionnaire
measurement				
# of time points				1
measured				
Physiological				
Risk Factor(s)				
Birthweight	Not measured	Not measured	Not measured	Not measured
status definition				

				Uganda AIDS Rural Treatment Outcomes
Name of cohort Source of	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	(UARTO) cohort
measurement				
# of time points				
measured				
Body	Not measured	Not measured	Not measured	Not measured
composition				
definition				
Source of				
measurement				
# of time points measured				
	Not as a superior	alore were all the total and affinitions as a to	Not as a sure d	Not as a superior
Cholesterol definition	Not measured	abnormal lipids definition not reported	Not measured	Not measured
Source of		lipids measured and lipoprotein		
measurement		levels determined		
# of time points		1		
measured				
Proteinuria definition	Not measured	proteinuria defined as ≥+1	Not measured	Not measured
Source of		single urine sample		
measurement				
# of time points measured		1		
HIV infection	Not recovered	HIV infection defined as	Not recovered	Not recovered
definition	Not measured	postive/negative	Not measured	Not measured
Source of		diagnosis performed by testing		
measurement		algorithm, requiring two positive		
		results form commercial HIV-1		
		antibodies ELISA kits		
# of time points		1		
measured				

Name of cohort	Prospective cohort study in Ghana	RWISA	Prospective cohort study in Benin	Uganda AIDS Rural Treatment Outcomes (UARTO) cohort
HPV infection definition	birthweight defined as low (<2500g)	HPV-DNA defined as 1) positive for HPV-16; 2) negative for HPV-16, positive for HPV-18; 3) positive for other carcinogenic types but not for HPV-16, 18; 4) positive for non-carcinogenic types and negative for all carcinogenic types; 5) HPV negative by PCR	Not measured	Not measured
Source of measurement	measured within 24hr of birth	CVL specimens digested with Proteinase K, detected using the L1 MY09/MY11 modified PCR system with AmpliTaq Gold polymerase, products probed for the presence of HPV DNA by Southern blot with radiolabeled generic probe mixture		
# of time points measured	1	1		
Anaemia definition	Not measured	Not measured	anaemia defined as severe if Hb<4g/dl or if Hb <4g/dl and pallor with schock, respiratory diffulties, transfusion	Not measured
Source of measurement			Hb measured using HemoCue	
# of time points measured			2	