Additional file 2 - Summary characteristics of reviewed validation studies

No.	Setting	Period	Age group	Sample size	Causes of death	Interpretation method	Performance measures	Reference standard
1	Tanzania [28]	2000- 2003	All	3123	All	PCVA	SensitivitySpecificityAgreement of CSMFPPV	Hospital- based deaths
2	China [29]	2002	Adult	2102	All	PCVA	SensitivitySpecificityAgreement of CSMFPPV	Hospital- based deaths
3	Thailand [30]	2006- 2007	Adolescents and adults	2 558	All	PCVA	SensitivityPPVAgreement of CSMF	Hospital- based deaths
4	Mexico, Tanzania, India Philippines [31]	2005	All	12 542	All	PCVA	 Average of cause- specific chance- corrected concordance CSMFs accuracy Relationship between estimated CSMFs and true CSMFs 	Hospital- based deaths
5	India [32]	1998- 1999	Adults	48 357	All	PCVA	Agreement of CSMFSensitivity (only for cancer)	Death certificates
6	India [33]	1997- 1998	Adults	31 788	All	PCVA	 Agreement of CSMF 	Various types of records
7	Uganda	2006-	Adults	264	HIV –related death	PCVA	• Specificity	Clinically-

No.	Setting	Period	Age group	Sample size	Causes of death	Interpretation method	Performance measures	Reference standard
	34]	2008					Agreement of CSMFPPV	confirmed HIV status
8	Uganda [35]	2008- 2009	Children under 5	719	Malaria	PCVA	SensitivitySpecificityPPVAgreement of CSMF	Hospital- based deaths
9	Kenya [36]	2002- 2008	All	1 823	All	InterVA-3	Kappa statisticsAgreement of CSMF	PCVA
10	Burkina Faso [37]	1998- 2007	All	5649	All	InterVA-3	Agreement of CSMF	PCVA
11	Mexico Tanzania India Philippines [14]	2005	All	12 542	All	InterVA-3	Chance-corrected concordanceCSMFs accuracyLinear regression	Hospital- based deaths
12	South Africa [15]	1992- 2005	All	1 000	All	InterVA	Agreement of CSMF	InterVA-3
13	South Africa [38]	1992- 2005	All	6,153	All	InterVA-3	Agreement of CSMF	PCVA
14	Ethiopia [39]	2003	Adults	193	HIV/AIDS HIV/AIDS+ TB	InterVA-3	 Sensitivity Specificity PPV Agreement of CSMF Kappa statistics ROC curves 	Hospital- based deaths

No.	Setting	Period	Age group	Sample size	Causes of death	Interpretation method	Performance measures	Reference standard
15	Ethiopia [40]	2012	Adults	408	Pulmonary tuberculosis	InterVA-3	 Sensitivity Specificity Agreement of CSMF Kappa statistics Receiver operating characteristic curves 	PCVA
16	Mexico Tanzania India Philippines [16]	2005	All	12 542	All	KL	CSMF accuracyLinear regression	Hospital- based deaths
17	Mexico Tanzania India Philippines [12]	2005	All	12 542	All	Tariff	Chance-corrected concordanceCSMF accuracyLinear regression	Hospital- based deaths
18	Mexico Tanzania India Philippines [13]	2005	All	12 542	All	SSP	Chance-corrected concordanceCSMF accuracyLinear regression	Hospital- based deaths
19	Mexico Tanzania India Philippines [11]	2005	All	12 542	All	RF	Chance-corrected concordanceCSMF accuracyLinear regression	Hospital- based deaths