Appendix

PubMed Search Query

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Table 6: Baseline Factors Adjusted for in Mortality Hazard Ratios*

Author, Year	Age	CD4 count	WHO Stage	Viral Load	BMI or Weight	Previous/ Current TB	Adh-erence	Hemo-globin (Anemia)	Additional Factors	Ref
Africa										
Abaasa, 2008	✔						✔		Education level	[21]
Alemu, 2010									-	[24]
Bastard, 2011		✔					✔	✔	-	[27]
Biadgilign, 2012	✔	✔	✔		✔				Functional status[a] education level, employment, religion, marital status	[28]
Bisson, 2008	✔	✔		✔				✔	-	[30]
Boyles, 2011	✔	✔				✔			Starting ART as inpatient, starting ART in pregnancy, pre-ART care > 6 months	[31]
Brinkhof, 2009	✔	✔	✔						Initial ART regimen, ART start year	[33]
Chalamilla, 2012		✔	✔		✔	✔		✔	ART regimen, patient referral site, calendar month, calendar year (age not significant in univariate analysis, so not included in multivariate)	[34]
Chen, 2008	✔		✔		✔				-	[35]
Chi, 2009	✔	✔	✔		✔		✔	✔	Adherence supporter, initial ART regimen	[36]
Chi, 2010	✔	✔	✔		✔	✔		✔	Serum creatinine, third ART drug; NRTI backbone	[37]
Chu, 2010									KS stage, bleomycin chemotherapy	[38]
Cornell, 2012	✔	✔	✔	✔	✔			✔	Cohort (site)	[40]
De Beaudrap, 2008									-	[42]
De Luca, 2012	✔	✔	✔	✔	✔		✔	✔	ART start year; 6-month post-initiation CD4 count & VL	[43]
Desilva, 2009	✔	✔				✔			Employment status	[45]
Fatti, 2010	✔	✔	✔						ART start year, province, facility level	[48]
Ford, 2010	✔	✔							Pregnant at initiation	[49]
Geng, 2010a	✔	✔							Blood pressure; central nervous system syndrome	[52]
Greig, 2012	✔				✔	✔			Severe immunosuppression, setting	[54]
Hawkins, 2011	✔	✔	✔		✔	✔		✔	Site, district, season, calendar year, antiretroviral regimen, hepatitis B and C status; alanine aminotransferase	[55]

Hermans, 2012	✔	✔							ART start year	[56]
Hoffman, 2011	✔	✔	✔	✔	✔	✔		✔	Cotrimoxazol use	[58]
Johannessen, 2008			✔		✔			✔	ART start year, total lymphocyte count, platelet count	[59]
Kassa, 2012	✔	✔	✔			✔			Functional status [a]	[61]
Kouanda, 2012	✔	✔	✔		✔				Profession, treatment regimen, ART start year, intensity of intervention	[64]
MacPherson, 2009	✔	✔	✔		✔				-	[66]
Mageda, 2012	✔	✔	✔		✔				Marital status, type of clinic, residence	[67]
Maman, 2012b	✔	✔	✔		✔				Updated CD4 cell count; time period of ART start	[69]
Maman, 2012c	✔		✔		✔				Chronic energy deficiency	[70]
Mutevedzi, 2011	✔	✔	✔	✔	✔	✔		✔	3 & 12 mo analyses: estimated glomerular filtration rate; 24 mo analysis: CD4 count at 6 & 12 months, VL at 12 months; all analyses: albumin	[79]
Negin, 2011	✔								-	[81]
Odafe, 2012	✔	✔	✔						Functional status, [a] type of facility	[83]
Ojikutu, 2008	✔	✔				✔			Employment status; oral candidiasis	[84]
Palombi, 2009	✔	✔		✔	✔		✔	✔	Model 1. Calendar year. (Model 2 also adjusted for WHO stage, which had 39% missing data)	[85]
Peterson, 2011	✔	✔	✔		✔			✔	ART start year, in cohort <12 months prior to ART initiation	[88]
Poka-Mayap, 2013	✔	✔	✔		✔	✔		✔	Urban/rural residency; platelet count; AZT-based regimen	[89]
Russell, 2010	✔	✔						✔	-	[91]
Sieleunou, 2009		✔	✔		✔			✔	(Age not significant in univariate analysis)	[93]
Somi, 2012	✔	✔	✔		✔				-	[95]
Toure, 2008	✔	✔	✔		✔		✔	✔	ART regimen, type of HIV seropositivity, type of care center	[99]
Wandeler, 2012	✔	✔	✔						ART start year, country, treatment regimen	[101]
Wubshet, 2012		✔	✔			✔			Functional status [a]	[103]
Central Europe/Eastern Europe										
Tsertsvadze, 2011		✔							AID defining illness, cirrhosis; (Age injection drug use, VL, presence of anti-Hepatitis C Virus antibodies and Hepatitis B antigens not significant in univariate analysis)	[15]
Latin America										
Wolff, 2010	✔	✔	✔	✔					Third drug (Efavirenz, nevirapine, Protease	[105]

									inhibitor), start year of ART	
Asia										
Alvarez-Uria, 2013	✔	✔							Disadvantaged community, Illiteracy, Homelessness, Living near a town, Poverty, Marital status	[106]
Argemi, 2012									-	[107]
Bastard, 2013		✔			✔				-	[108]
Chen, 2013	✔	✔							Mode of transmission (e.g. injection drug use), marital status	[110]
Fregonese, 2012	✔	✔	✔	✔				✔	(3-6 month analysis) -	[112]
	✔	✔		✔	✔			✔	(6+ month analysis) ART start year, CD4 count = increase at 6 months	
Rai, 2013	✔	✔					✔		Education, Household income, source of referral, opportunistic infections, distance to ART center	[115]
Tran, 2013, Vietnam	✔	✔	✔		✔	✔	✔		Initiation year, history of injection drug use, history of unsafe sex, baseline opportunistic infections, baseline cotrimoxazol use	[119]
Van Griensven, 2011		✔			✔			✔	(Age, WHO stage, ART start year were not significant in univariate analysis)	[120]
Zhang, 2009	✔	✔						✔	Marital status, infection route (sexual vs. injection drug use vs. plasma donation), alanine aminotransferase level, baseline symptoms category	[122]
a e.g. bedridden, ambulatory, working *All studies in Model 1										

Table 7: Final Meta-Analysis (Model 4) Inclusions and Exclusions of Studies with Mortality Data

1st author, year	Included	Excluded	Reason	HR*	95% CI
Africa					
Abaasa, 2008		✔	LTFU ≥15%	1.48	0.98-2.17
Ahonkhai, 2012		✔	No HR; Odds ratio only		
Alamo, 2012		✔	No HR; Crude measure only		
Alemu, 2010		✔	Moderate quality; LTFU ≥15%	1.22	0.58-2.56
Alibhai, 2010		✔	No HR; Crude measure only		
Balcha, 2010		✔	No HR; Crude measure only		
Bastard, 2011	✔		**High quality; LTFU <15%**	**2.13**	**1.19-3.85**
Biadgilign, 2012	✔		**High quality; LTFU <15%**	**0.86**	**0.5-1.47**
Birbeck, 2011		✔	No HR; Odds ratio only		
Bisson, 2008		✔	LTFU >15%	1.74	1.05-2.87
Boyles, 2011	✔		**High quality; LTFU <15%**	**0.83**	**0.60-1.15**
Brennan, 2013		✔	No HR; relative risk ratio only		
Brinkhof, 2009		✔	LTFU ≥15%	1.19	1.01-1.41
Chalamilla, 2012		✔	LTFU not reported	1.19	1.07-1.32
Chen, 2008		✔	LTFU ≥15%	1.70	1.35-2.15
Chi, 2009		✔	LTFU ≥15%	1.30	1.10-1.50
Chi, 2010		✔	LTFU ≥15%	1.82	1.47-2.26
Chu, 2010	✔		**High quality; LTFU <15%**	**0.98**	**0.73-1.31**
Cornell, 2009		✔	Cohort also represented in Cornell 2012[a]		
Cornell, 2012	✔		**High quality; LTFU <15%**	**1.10** **1.36** **1.39** **1.35**	**0.93-1.31** **1.05-1.78** **0.94-2.06** **0.76-2.38**
Dalal, 2008		✔	No HR; Crude measure only		
De Beaudrap, 2008	✔		**0-6 month HR: High quality; LTFU <15%**	**0.97**	**0.47-2.00**
		✔	7-84 month HR: Excluded, LTFU ≥15%	**1.45**	**0.86-2.38**
De Luca, 2012	✔		**High quality; LTFU <15%**	**1.76**	**1.11-2.80**
Deribe, 2013		✔	No HR; Odds ratio only		
Desilva, 2009	✔		**High quality; LTFU <15%**	**1.76**	**1.14-2.72**
Ekouevi, 2010		✔	Provides combination only of mortality plus LTFU		
Evans, 2012		✔	Cohort included in Cornell 2012 [a]		
Fatti, 2010	✔		**High quality; LTFU <15%**	**1.14**	**1.00-1.30**

Ford, 2010		✔	LTFU ≥15%	0.90	0.34-2.38
Fox, 2010		✔	Cohort also represented in Cornell 2012 [a]		
Fox, 2012		✔	Cohort also represented in Cornell 2012 [a]		
Franke, 2011		✔	Entire sample had current tuberculosis		
Geng, 2010a		✔	LTFU ≥15%	1.54	0.53-4.12
Geng, 2010b		✔	Cohort also represented in Geng 2010a [a]; of 3 HRs reported with 3 analyses, chose to include the one in the middle		
Greig, 2012		✔	LTFU % not reported	1.20 1.02	1.01-1.41 0.84-1.22
Hawkins, 2011		✔	LTFU ≥15%	1.19	1.05-1.30
Hermans, 2012	✔		**High quality; LTFU <15%**	**1.41**	**1.12-1.77**
Hoffmann, 2010		✔	Cohort also represented in Hoffmann 2011[a]; smaller n		
Hoffmann, 2011		✔	LTFU ≥15%	1.20	1.00-1.30
Johannessen, 2008	✔		**High quality; LTFU <15%**	**1.60**	**1.00-2.57**
Karstaedt, 2012		✔	No HR; Crude measure only		
Kassa, 2012	✔		**High quality; LTFU <15%**	**1.07**	**0.84-1.36**
Kebebew, 2012		✔	No HR; Crude measure only		
Kipp, 2012		✔	No HR; Crude measure only		
Kouanda, 2012	✔		**High quality; LTFU <15%**	**1.33**	**1.05-1.68**
Lowrance, 2009		✔	No HR; Odds ratio only		
MacPherson, 2009	✔		**High quality; LTFU <15%**	**1.63**	**1.12-2.36**
Mageda, 2012		✔	LTFU not reported	4.71	2.00-11.05
Maman, 2012a		✔	No HR; Crude measure only		
Maman, 2012b		✔	LTFU not reported		
Maman, 2012c	✔		**High quality; LTFU <15%**	**1.36**	**0.93-2.00**
Maskew, 2012		✔	Cohort also represented in Cornell 2012[a]		
Maskew, 2013		✔	Cohort also represented in Cornell 2012[a]		
Massaquoi, 2009		✔	No HR; Crude measure only		
Moore, 2011		✔	No HR; Crude measure only		
Mossdorf, 2011		✔	Provides combination only of mortality plus LTFU		
Mosha, 2013		✔	No HR; Crude measure only		
Mujugira, 2009		✔	Entire sample was only sickest patients (CD4 <50)		
Murphy, 2010		✔	No HR; Odds ratio only		
Mutevedzi, 2010		✔	Cohort also represented in Mutevedzi 2011		

Mutevedzi, 2011	✔		**High quality; LTFU <15%**	**1.64** **1.84** **1.40** **1.33** **1.95**	**1.32-2.03** **1.06-3.17** **1.09-1.80** **0.73-2.41** **1.46-2.57**
Mzileni, 2008		✔	No HR; Crude measure only		
Negin, 2011		✔	LTFU ≥15%	1.92	1.67-2.17
Nglazi, 2011		✔	Cohort also represented in Cornell 2012[a]		
Odafe, 2012		✔	LTFU ≥15%	1.29	0.89-1.86
Ojikutu, 2008	✔		**High quality; LTFU <15%**	**1.33**	**0.73-2.50**
Palombi, 2009	✔		**High quality; LTFU <15%;** Model 1 used	**1.96**	**1.59-2.50**
Palombi, 2010		✔	Cohort also represented in Palombi 2009 [a]	-	-
Peltzer, 2011		✔	No HR; relative risk only		
Peterson, 2011	✔		**High quality; LTFU <15%**	**4.9** **2.50**	**2.5-10.8** **1.20-5.60**
Poka-Mayap, 2013		✔	LTFU ≥15%	2.15	1.34-3.45
Rougemont, 2009		✔	No HR; Odds ratio only		
Russell, 2010	✔		**High quality; LTFU <15%**	**1.15**	**0.83-1.59**
Schoni-Affolter, 2011		✔	No HR; Crude measure only		
Sieleunou, 2009	✔		**High quality; LTFU <15%**	**1.73**	**1.37-2.19**
Siika, 2010		✔	Case-control study		
Somi, 2012	✔		LTFU ≥15%	1.70	1.61-1.79
Steele, 2011		✔	No HR: relative risk ratio only		
Sunpath, 2012		✔	Entire sample had current tuberculosis		
Taylor-Smith, 2010		✔	No HR: relative risk ratio only		
Toure, 2008	✔		**High quality; LTFU <15%**	**1.52**	**1.29-1.80**
Van Cutsem, 2011		✔	Cohort also represented in Cornell 2012[a]		
Wandeler, 2012		✔	LTFU ≥15%	1.45	1.25-1.70
Weigel, 2011		✔	Cross-sectional study design; Odds ratio only		
Wubshet, 2012		✔	LTFU ≥15%	3.26	2.19-4.88
Zachariah, 2009		✔	No HR; Odds ratio only		
Central Asia/Eastern Europe					
Tsertsvadze, 2011	✔		**High quality; LTFU <15%**	**1.96**	**1.19-3.24**
Latin America					
Wolff, 2010	✔		**High quality; LTFU <15%**	**1.24**	**0.93-1.64**

Asia					
Alvarez-Uria, 2013	✔		LTFU ≥15%	1.53	1.21-1.92
Argemi, 2012	✔		**High quality; LTFU <15%**	**1.28**	**0.88-1.88**
Bastard, 2013	✔		**High quality; LTFU <15%**	**0.84** **5.89**	**0.49-1.45** **2.27-14.29**
Bhowmik, 2012		✔	No HR; Crude measure only		
Chen, 2013	✔		**High quality; LTFU <15%**	**2.10**	**1.20-3.50**
Dou, 2011		✔	Cohort also represented in Zhang 2009 [a]		
Fregonese, 2012	✔		**High quality; LTFU <15%**	**1.50** **2.40**	**0.70-3.10** **1.20-4.80**
Kumarasamy, 2008		✔	No HR; Crude measure only		
Limmahakhun, 2012		✔	No HR; Crude measure only		
Rai, 2013	✔		**High quality; LTFU <15%**	**2.80**	**1.60-4.90**
Sabapathy, 2012		✔	Provides combination only of mortality plus LTFU		
Susaengrat, 2011		✔	No HR; Crude measure only		
Thai, 2009		✔	Provides combination only of mortality plus LTFU		
Tran, 2013		✔	LTFU ≥15%	1.85	1.18-2.94
van Griensven, 2011	✔		**High quality; LTFU <15%**	**2.08** **1.72**	**1.35-3.23** **1.01-2.94**
Zhang, 2008		✔	Cohort also represented in Zhang 2009 [a]		
Zhang, 2009	✔		**High quality; LTFU <15%**	**1.40**	**1.30-1.50**
Zhang, 2012		✔	Cohort also represented in Zhang 2009 [a]		
Brinkhof, 2008		✔	Cohort also represented in Brinkhof 2009 [a]		
Wandel, 2008		✔	HRs reported incompletely; not useable in MA		

*HRs listed here were considered in sensitivity analyses; **Bold** studies were included in the final model; For studies that reported HR females vs. males, the reciprocals were calculated and are reported in this table

[a] Overlap of cohorts determined through review of description in studies' methods sections, e.g. follow-up months/years, sample size, name of cohort, sites and settings, and co-authorship
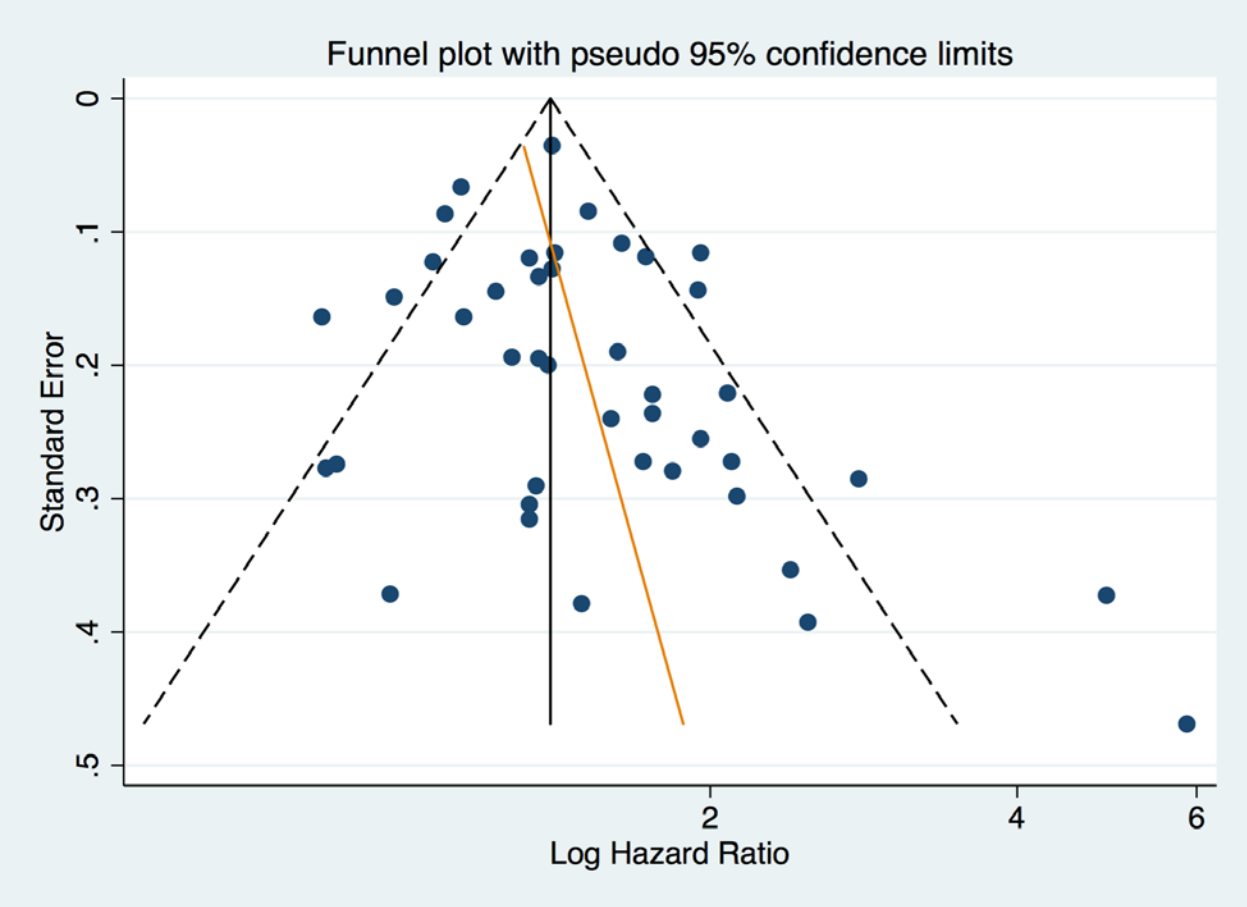
Figure 3: Funnel Plot of Included Studies (Model 4)