Supplement material 2. Details of included studies and risk of bias assessment

First author	**Year of publication**	**Year(s) of data collection**	**Country**	**Rationale**	**Aim of malnutrition assessment**	**Assessment method**	**Clear cut-off**	**Maln* in results**	**Maln* in discussion**	**Risk of bias**	**Number of in/out patients**	**HIV coinfection**	**Susceptibility**	**Type of TB**
Martins[24]	2009	2005-2006	Timor-Leste	+	Secondary, part of clinical outcome	BMI < 18.5 kg/m^2	-	+	+	medium	270 outpatients	unknown	unknown	pulmonary
Pakasi[25]	2009	unknown	Indonesia	++	Primary, prevalence and association	BMI < 18.5 kg/m^2	++	++	++	very low	121 outpatients	unknown	unknown	pulmonary
Ulasli[26]	2009	2001-2006	Turkey	+	Secondary, association	BMI < 20.0 kg/m^2	++	+	+	low	24 inpatients	unknown	unknown	pulmonary and/or extra pulmonary
Kim[27]	2010	2005-2006	South-Korea	++	Primary, malnutrition etiology	PIBW, BMI, Albumin, TLC, Cholesterol, Hb	++	++	++	very low	23, unknown type of patients	unknown	unknown	pulmonary
Khoharo[28]	2010	2007-2008	Pakistan	-	Secondary, risk factor	BMI < 18.5 kg/m^2	++	+	++	low	350, unknown type of patients	unknown	unknown	pulmonary
Pakasi[29]	2010	2004-2005	Indonesia	+	Secondary, part of clinical outcome	BMI (no clear cut-off)	-	+	+	medium	300 outpatients	unknown	unknown	pulmonary
Gambhir[30]	2010	2006-2009	India	-	Secondary, risk factor	BMI <18.5 kg/m^2	++	+	+	medium	95 inpatients	no	unknown	pulmonary and/or

														extra pulmonary
Singla[31]	2010	2004-2009	India	+	Secondary, risk factor	BMI < 18.5 kg/m^2	+	+	+	medium	175 in- and outpatients	no	unknown	pulmonary and/or extra pulmonary
Mupere[32]	2010	2002-2008	Uganda	++	Primary, association	BMI < 18.5 kg/m^2	+	+	+	low	445, unknown type of patients	115	unknown	pulmonary
Warmelink[33]	2010	2005-2008	Nederland	+	Primary, risk factor	Change in body weight	-	+	+	medium	192 inpatients	15	MDR patients included	pulmonary and/or extra pulmonary
Podewils[34]	2011	2000-2004	Latvia	++	Primary, association	BMI < 18.5 kg/m^2	++	++	+	very low	995 in- and outpatients	32	only MDR patients	pulmonary
De Jong[35]	2011	unknown	Gambia	-	Secondary, part of clinical outcome	BMI < 16 kg/m^2	++	+	+	medium	692, unknown type of patients	56	unknown	pulmonary
Kawai[36]	2011	2000-2005	Tanzania	+	Primary, follow-up of malnutrition	BMI < 18.5 kg/m^2	++	+	+	low	887 outpatients	471	unknown	pulmonary
Miyata[37]	2011	unknown	Japan	++	Primary, prognostic factor	SGA	++	++	++	very low	39 inpatients	unknown	unknown	pulmonary

Mupere[38]	2012	unknown	Uganda	-	Primary, association	BMI < 18.5 kg/m^2	++	+	+	medium	747 outpatients	539	unknown	pulmonary
Piva[39]	2013	2008-2009	Brazil	++	Primary, prevalence	BMI < 18.5 kg/m^2	++	++	++	very low	34 in- and outpatients	unknown	unknown	pulmonary
Islam[40]	2013	2010-2011	Bangladesh	++	Primary, prevalence	BMI < 18.5 kg/m^2 and MUAC < 22 cm	++	+	++	very low	1068, unknown type of patients	unknown	unknown	pulmonary
Chittoor[41]	2013	unknown	Mexico	-	Secondary, association	Self-reported estimate of diet quality	-	+	+	high	75 outpatients	unknown	unknown	pulmonary
Miyata[42]	2013	unknown	Japan	+	Primary, prognostic factor	MNA < 17	++	+	+	low	53 inpatients	unknown	unknown	pulmonary
Bhargava[3]	2013	2004-2009	India	++	Primary, prevalence and association	BMI < 18.5 kg/m^2	++	++	++	very low	1695 in- and outpatients	39	unknown	pulmonary
Bakari[43]	2013	2009-2010	Tanzania	++	Primary, prevalence and follow-up of malnutrition	BMI < 18.5 kg/m^2	++	+	+	low	43 outpatients	43	unknown	pulmonary
Ismawati[44]	2013	2011-2012	Indonesia	+	Secondary, part of clinical outcome	BMI (no clear cut-off)	-	+	+	medium	30, unknown type of patients	unknown	unknown	pulmonary
Miyata[45]	2013	unknown	Japan	++	Primary, prognostic factor	MUST	++	+	+	low	57 inpatients	unknown	unknown	pulmonary

Maeda[46]	2014	2007-2009	Vietnam	-	Secondary, association	BMI ≤ 18.5 kg/m^2	++	+	+	medium	465 outpatients	38	Including different types of resistance	pulmonary
Oliveira[47]	2014	2007-2010	Brazil	++	Secondary, association	TST AMA	+	++	++	very low	166 inpatients	31	unknown	pulmonary
Tian[48]	2014	2000-2001	China	-	Secondary, risk factor	BMI < 18.5 kg/m^2 and/or serum albumin < 30 g/L	++	+	+	medium	160 in- and outpatients	43	unknown	pulmonary
Kumar[49]	2014	2011-2014	India	+	Primary, prognostic factor	BMI (no clear cut-off)	-	+	+	medium	376 outpatients	unknown	Only MDR	pulmonary
Bacelo[50]	2015	2008-2013	Brazil	++	Primary, follow-up of malnutrition intervention	Multiple anthropometric and biochemical biomarkers	++	++	++	very low	68, unknown type of patients	22	unknown	Pulmonary and extra pulmonary
Golemba[51]	2015	2011-2014	Argentina	-	Secondary, association	BMI ≤ 20 kg/m^2	++	+	+	medium	75 inpatients	0	unknown	pulmonary
Te Brake[52]	2015	unknown	Indonesia	++	Primary, prognostic factor	BMI < 18.5 kg/m^2	++	+	++	very low	36 outpatients	0	unknown	pulmonary
Medellin-Garibay[53]	2015	unknown	Mexico	-	Secondary, association	BMI < 18.49 kg/m^2	+	+	+	medium	48, unknown type of patients	0	unknown	Pulmonary and extrapulmonary
Ezeamama[54]	2015	2004-2008	Uganda	++	Secondary, association	BMI < 18.5 kg/m^2	++	++	++	very low	208 outpatients	208	unknown	pulmonary

McLachlan[55]	2016	2014	South Africa	-	Secondary, association	BMI < 18.5 kg/m^2	++	-	+	medium	105 inpatients	74	Susceptible and MDR	Pulmonary and extrapulmonary
Gebrecherkos[56]	2016	2015	Ethiopia	+	Secondary, risk factor	BMI < 18.5 kg/m^2	++	+	+	Low	15 outpatients	4	No rifampicin resistance	pulmonary
Araújo-Mariz[57]	2016	2007-2012	Brazil	-	Secondary, prognostic factor	BMI < 18.5 kg/m^2	++	+	+	medium	173, unknown type of patients	173	unknown	unknown
Buntoro[58]	2016	unknown	Indonesia	+	Primary, part of clinical outcome	BMI <18.5 kg/m^2	++	++	++	very low	72 outpatients	unknown	unknown	pulmonary
Pandit[59]	2016	2012-2013	India	-	Secondary, prognostic factor	BMI <20.0 kg/m^2	-	+	+	high	148, unknown type of patients	unknown	unknown	pulmonary
Abdelbary[60]	2017	2006-2013	Mexico	-	Secondary, risk factor	Underweight	-	++	-	high	8431 outpatients	447	Susceptible and MDR	pulmonary and extrapulmonary
Bhat[61]	2017	2013	India	+	Secondary, association	BMI < 18.5 kg/m^2	++	+	+	low	267 outpatients	0	unknown	pulmonary
Hochberg[62]	2017	2014-2016	India	-	Primary, prevalence	BMI < 18.5 kg/m^2	++	++	++	low	409 outpatients	1	Only normal susceptible	pulmonary
Piparva[63]	2018	2014-2015	India	-	Secondary, part of clinical outcome	BMI < 18.5 kg/m^2	++	++	++	low	108 inpatients	5	only MDR	pulmonary

Gurung[64]	2018	2016	Nepal	++	Primary, prevalence	BMI (no clear cut-off)	-	++	++	low	133 outpatients	1	unknown	pulmonary and extrapulmonary
Pande[65]	2018	2015-2016	India	-	Secondary, prevalence and association	BMI < 18.4 kg/m^2	+	+	+	medium	728 inpatients	53	unknown	pulmonary and extrapulmonary
Rao[66]	2018	2013-2014	India	-	Secondary, risk factor	BMI (no clear cut-off)	-	+	++	medium	220 outpatients	unknown	unknown	pulmonary
Sattler[67]	2018	unknown	4 continents, 26 study sites	+	Primary, association	BMI < 18.5 kg/m^2	-	+	+	medium	51, unknown type of patients	51	unknown	pulmonary
Kirchmann Lazzari[68]	2018	unknown	Brazil	++	Primary, prevalence	BMI TSF MAMC SGA	+	++	++	very low	108 inpatients	44	unknown	pulmonary
Cheng[69]	2019	2013-2016	China	-	Secondary, part of clinical outcome	BMI < 18 kg/m^2	+	+	-	high	85 inpatients	0	unknown	intestinal
Cavalheiro Skupien[70]	2019	unknown	Brazil	-	Secondary, association	BMI ≤ 18.5 kg/m^2	-	+	+	high	35 inpatients	unknown	unknown	pulmonary

Abdullahi[71]	2019	2012 - 2016	Kenya	+	Primary, association	BMI < 18.5 kg/m^2	++	++	-	low	10717 outpatients	3163	unknown	Pulmonary and extrapulmonary
Benzekri[72]	2019	2016 - 2017	Senegal	-	Primary, part of clinical outcome	BMI (no clear cut-off)	-	++	+	medium	26 outpatients	26	Susceptible	pulmonary
Chebrolu[73]	2019	unknown	USA	++	Primary, inclusion criterion	BMI < 16 kg/m^2	++	+	+	low	27, unknown type of patients	0	unknown	Pulmonary and extrapulmonary
Da Silva[74]	2019	2017 – 2018	Brazil	+	Primary, association	BMI < 18.5 kg/m^2 TSF MUAC MAMC BIA FFQ	+	++	++	low	35, unknown type of patients	14	unknown	Pulmonary
Feleke[75]	2019	2015 - 2018	Ethiopia	++	Primary, prevalence	BMI < 18.5 kg/m^2	++	++	+	very low	1681, unknown type of patients	595	unknown	Pulmonary and extrapulmonary

Gashaw[76]	2019	2015 – 2017	Ethiopia	++	Primary, prevalence	BMI ≤ 18.5 kg/m^2 MUAC ≤ 23 cm (men) MUAC ≤ 22 cm (women)	++	++	++	very low	384, unknown type of patients	unknown	unknown	Pulmonary and extrapulmonary
Hoyt[77]	2019	2015 – 2017	India	++	Primary, part of clinical outcome	BMI < 18.5 kg/m^2	++	++	++	very low	173, unknown type of patients	unknown	unknown	pulmonary
Hussien[78]	2019	2017 – 2018	Ethiopia	++	Primary, prevalence	BMI < 18.5 kg/m^2	+	++	++	very low	372 inpatients	42	unknown	pulmonary
Lee[79]	2019	2016 – 2017	Philippines	++	Primary, prognostic factor	BMI< 17 kg/m^2 MUAC ≤ 20.5 cm (men) MUAC ≤ 18.5 cm (women)	++	++	++	very low	348 inpatients	22	31 MDR	unknown
Mailu[80]	2019	2013-2017	Kenya	-	Primary, prevalence	BMI < 18.5 kg/m^2	++	++	+	low	421409 outpatients	134776	unknown	Pulmonary and extrapulmonary

Rashak[81]	2019	2010-2014	Mexico	++	Primary, prevalence and association	BMI < 18.5 kg/m^2 (or BMI ≤ 18.5 kg/m^2, not clearly described)	-	++	++	low	5508 , unknown type of patients	224	unknown	Pulmonary and extrapulmonary
Ren[82]	2019	2015 – 2017	China	++	Primary, prevalence	BMI < 18.5 kg/m^2	++	-	++	low	300 in- and outpatients	unknown	unknown	pulmonary
Wardani[83]	2019	2016	Indonesia	+	Secondary, risk factor	BMI ≤ 18.5 kg/m^2	++	+	-	medium	311 outpatients	unknown	unknown	pulmonary
Wessels[84]	2019	2015	South Africa	++	Secondary, association	BMI < 18.5 kg/m^2 (underweight)	-	++	+	low	100 inpatients	68	unknown	unknown
White[85]	2019	2016 – 2017	Philippines	++	Primary and secondary, validation of tool and prognostic factor	BMI < 17 kg/m^2	++	++	++	very low	348 inpatients	22	31	unknown

Ma'rufi[86]	2020	2017	Indonesia	++	Primary, follow-up of malnutrition	BMI < 18.5 kg/m^2	++	++	++	very low	200 outpatients	0 (excluded)	0 (excluded)	pulmonary
Musuenge[87]	2020	unknown	Burkino Faso	++	Primary, prevalence and association	BMI < 18.5 kg/m^2	++	++	++	Very low	302 outpatients	23	unknown	pulmonary
Seid[88]	2020	2019	Ethiopia	++	Primary, prevalence and prognostic factor	BMI < 18.5 kg/m^2	+	++	++	Very low	284 in- and outpatients	51	Unknown	Pulmonary and extrapulmonary
Edwards[89]	2020	2017	Phillipines	+	Primary, prevalence	BMI < 17.0 kg/m^2	+	++	++	Very low	446 outpatients	68 (28%)	Susceptible	Unknown
White[90]	2020	2017	Phillipines	++	Primary, prevalence and association	BMI < 18.5 kg/m^2	+	++	++	Very low	637 outpatients	74 (24%)	Unknown	Unknown

Mollah[91]	2020	2018	India	++	Primary, prevalence	BMI < 18.5 kg/m^2 MUAC <23 (m) & <22 (f)	++	-	++	Low	113, unknown type of patients	Unknown	Unknown	Pulmonary and extrapulmonary

Abbreviations *PIBW: Percent Ideal Body Weight; BMI: Body Mass index; TLC: Total Lymphocyte Count; Hb: Haemoglobin; MUAC: Mid Upper Arm Circumference; MNA: Mini Nutritional Assessment; AMA: Arm Muscle Area; MAMC: Mid Arm Muscle Circumference; TSF: Triceps Skin Fold ; TST: Triceps Skinfold Thickness; SGA: Subjective Global Assessment; BIA: Bio-electrical Impedance Analysis; FFQ: Food Frequency Questionnaire*

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