Appendix 2: Newcastle-Ottawa scale for assessing the quality of cohort studies

Study	Selection			Comparability	Outcome			Rating		Quality
	Information on age composition of childhood cohorts with information on BCG ^a	Ascertainment of immunisation status ^b	Demonstration that mycobacterium tuberculosis infection (determined by IGRA) was not present before the BCG immunisation was given ^c .	Comparability of cohorts on the basis of the design or analysis ^d	Assessment of infection with Mycobacterium tuberculosis by interferon gamma release assay ^e	Was interferon gamma release assay done long enough after exposure for infection to be detectable in both immunized and not immunized groups	Adequacy of follow up of children exposed to the patient with tuberculosis ^g	Overall Star Ratins	Overall Rating= Star /9(%)	Quality
Adetifa et al 2010	B*	B*	B*	B*	D	С	С	4*	44	moderate
Altet-Gomez et al 2011	A*	B*	С	B*	A*	В	B*	5*	55	moderate
Bianchi et al 2009	A*	B*	С	B*	D	С	B*	4*	44	moderate
Domingues et al 2008	B*	B*	С	B*	D	С	B*	4*	44	moderate
Eisenhut et al 2009	B*	B*	С	A*B*	D	С	B*	5*	55	moderate
Eriksen et al 2010	A*	B*	С	A*B*	D	A*	A*	6*	67	high
Ewer et al 2003	B*	B*	С	B*	D	С	D	4*	44	moderate
Hill et al 2011	B*	B*	С	B*	D	С	D	3*	33	low
Neira-Munoz et al 2008	A*	B*	С	B*	D	С	B*	4*	44	moderate
Okada et al 2008	B*	B*	B*	A*B*	D	A*	A*	7*	77	high
Rutherford et al 2012	A*	B*	С	A*	D	С	С	3*	33	low
Soysal et al 2005	B*	B*	B*	A*B*	A*	С	B*	7*	77	high
Tsiouris et al 2006	B*	B*	С	B*	D	С	B*	4*	44	moderate
Tsolis et al 2010	С	С	С	A*B*	D	С	B*	3*	33	low

^aA Mean or median age provided*; B Age range provided *; C No information on age

^bA Secure immunisation record*; B BCG scar only or combination of good history and/or BCG scar and/or secure record *; C Written self report; D No description

^cA An IGRA test excluded infection with mycobacterium tuberculosis before BCG immunisation*; B BCG immunisation was given at birth as reported in publication*; C No demonstration of lack of mycobacterium tuberculosis infection before BCG immunisation.

d Study provided adjusted odds ratio by degree of exposure to infectious case and or age*; B Study provided odds ratio of infection*; C Survey without knowledge of exposure.

eA Assessent of infection status blind to BCG vaccination status or record linkage (blind to vaccination status) as reported in publication*; B Record linkage not blind to vaccination status or not described*; C Self report; D No description

fA Yes (at least 6 weeks) after exposure to infectious patient with mycobacterium tuberculosis*; B No; C Information not provided

^gA All children exposed were tested for infection*; B Similar losses to follow up in each group*; C Some children not tested and no description who was affected or there was an indeterminate result in more than 10% and not equally distributed; D No record of untested children or whether there were indeterminate results of testing