

**eTable 8: Results of meta-analyses involving S100B and subgroup analyses based on QUADAS-2 quality and clinical criteria**

Abbreviations of domains and criteria can be found in eTable 3.

FPR: false positive rate

NaN: not a number (correlation cannot be calculated)

SD: standard deviation

TPR: true positive rate

**3 studies that investigated S100B  
(x: included in respective analysis)**

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
<b>All studies</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>Aβ42 investigated</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		
<b>Aβ42 not investigated</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>Case-control studies</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		
<b>Cohort studies</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>D01 excl. high risk of bias (≥3 / 3 criteria)</b>							
Definite sCJD cases	1					x	

3 studies that investigated S100B  
(x: included in respective analysis)

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>D01 excl. high risk of bias (≥2 / 3 criteria)</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>D02 excl. high risk of bias (≥1 / 2 criteria)</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>D03 excl. high risk of bias (≥1 / 2 criteria)</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	2	0.18	0.70	1.00	x		x
<b>D04 excl. high risk of bias (≥3 / 4 criteria)</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>D04 excl. high risk of bias (≥2 / 4 criteria)</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>D05 excl. poor applicability (≥1 / 3 criteria)</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	2	0.18	0.70	1.00	x		x
<b>Disease duration not reported</b>							
Definite sCJD cases	1					x	

3 studies that investigated S100B  
(x: included in respective analysis)

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>Disease duration reported</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		
<b>K01 excl. high risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	1					x	
<b>K01 excl. high/unclear risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	1					x	
<b>K02 excl. high risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K03 excl. high risk of bias</b>							
Definite sCJD cases	0						
Definite and probable sCJD cases	0						
Definite, probable, and possible sCJD cases	1						x
<b>K04 excl. high risk of bias</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>K04 excl. high/unclear risk of bias</b>							
Definite sCJD cases	1					x	

3 studies that investigated S100B  
(x: included in respective analysis)

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	1					x	
<b>K05 excl. high risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K05 excl. high/unclear risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K07 excl. high risk of bias</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	2	0.18	0.70	1.00	x		x
<b>K08 excl. high risk of bias</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>K09 excl. high risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K09 excl. high/unclear risk of bias</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K11 excl. high/unclear risk of bias</b>							
Definite sCJD cases	1					x	

3 studies that investigated S100B  
(x: included in respective analysis)

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>K12 excl. poor applicability</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	2	0.18	0.70	1.00	x		x
<b>K12 excl. poor/unclear applicability</b>							
Definite sCJD cases	0						
Definite and probable sCJD cases	0						
Definite, probable, and possible sCJD cases	1						x
<b>K13 excl. poor applicability</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>K13 excl. poor/unclear applicability</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>Male-to-female ratio &gt;1</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	1					x	
<b>Male-to-female ratio 0.75–1</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		
<b>Median age &gt;65 years</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	

3 studies that investigated S100B  
(x: included in respective analysis)

Level of certainty of sCJD diagnosis	Studies included	SD (TPR)	SD (FPR)	Corr.	Baldeiras	Chohan	Sanchez-Juan
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	2	0.91	0.17	1.00	x	x	
<b>Studies &lt;2009</b>							
Definite sCJD cases	2	0.91	0.17	1.00	x	x	
Definite and probable sCJD cases	2	0.91	0.17	1.00	x	x	
Definite, probable, and possible sCJD cases	3	0.64	0.01	1.00	x	x	x
<b>Studies with a priori cut-off</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>Studies with data-driven cut-off</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		
<b>Study sample: not only definite cases</b>							
Definite sCJD cases	1					x	
Definite and probable sCJD cases	1					x	
Definite, probable, and possible sCJD cases	2	0.43	0.60	-1.00		x	x
<b>Study sample: only definite cases</b>							
Definite sCJD cases	1				x		
Definite and probable sCJD cases	1				x		
Definite, probable, and possible sCJD cases	1				x		