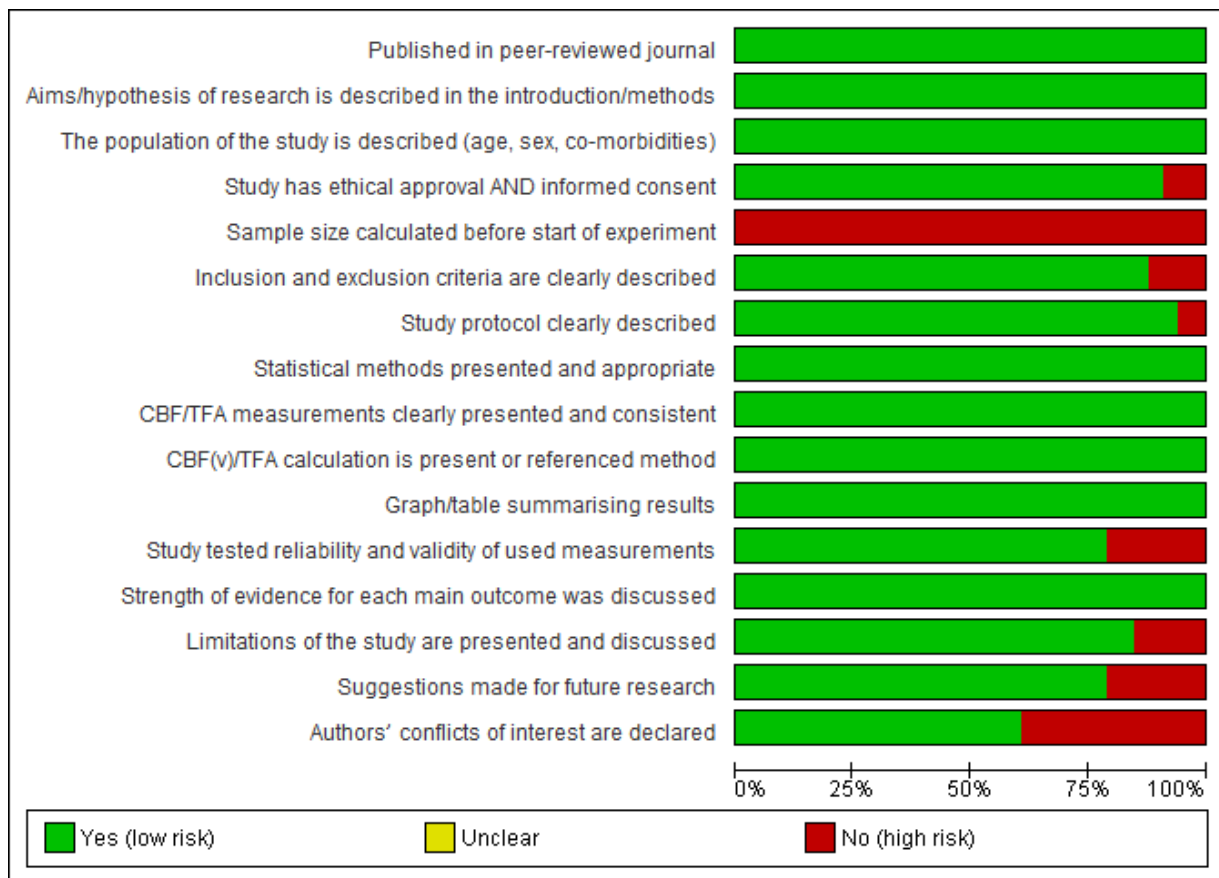


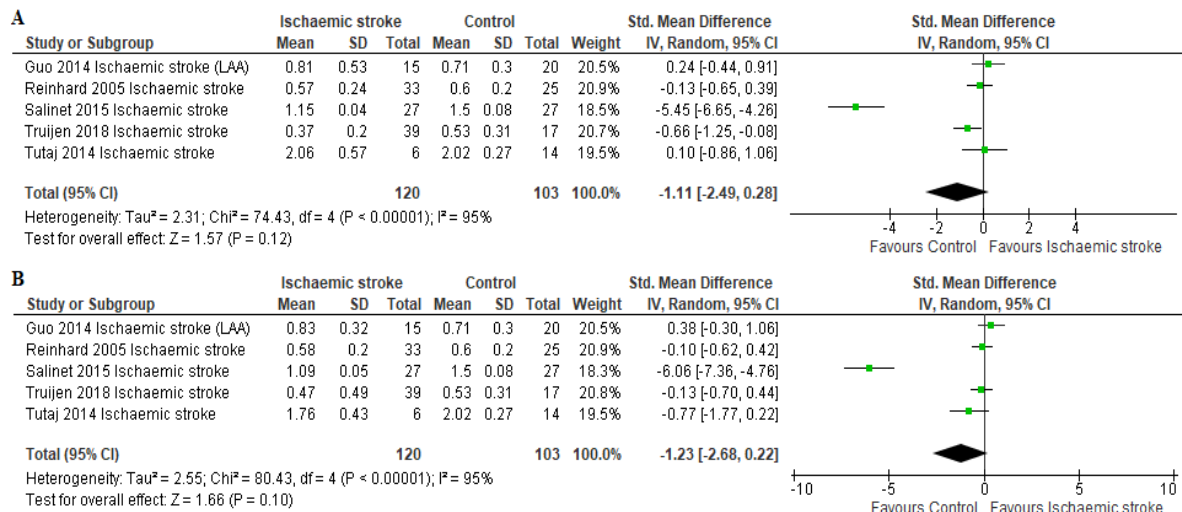
Supplementary Figures



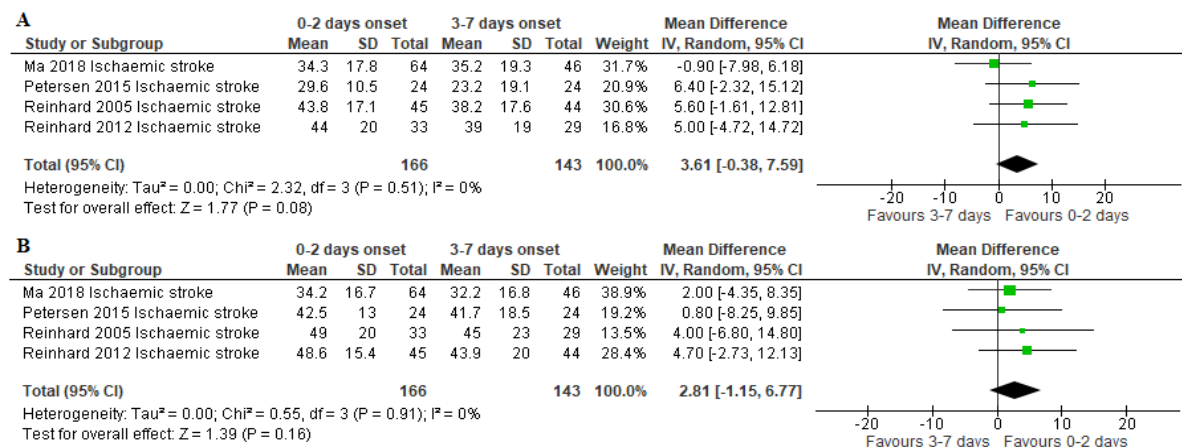
Supplementary Figure I: authors' evaluation about each risk of bias item presented as percentages across all included studies for each of the Downs and Black criteria.

	Atkin 2010	Castro 2017(a)	Castro 2017(b)	Chen 2014	Chi 2018	Diehl 1995	Fritsch 2010	Gommer 2008	Gong 2013	Guo 2014	Guo 2015	Imrink 2005	Kwan 2004	Lang 2001	Lmyd 2018	Ma 2016	Ma 2017	Ma 2018	Muller 2019	Nakagawa 2011	Oeinck 2013	Ottle 2014	Petersen 2015	Reinhard 2005	Reinhard 2008	Reinhard 2012	Saeed 2013	Salinet 2014	Salinet 2015	Truijen 2018	Tutaj 2014	Wang 2015	Xiong 2017
Published in peer-reviewed journal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Aims/hypothesis of research is described in the introduction/methods	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
The population of the study is described (age, sex, co-morbidities)	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Study has ethical approval AND informed consent	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sample size calculated before start of experiment	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inclusion and exclusion criteria are clearly described	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Study protocol clearly described	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Statistical methods presented and appropriate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
CBF/TFA measurements clearly presented and consistent	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
CBF(w)/TFA calculation is present or referenced method	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Graph/table summarising results	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Study tested reliability and validity of used measurements	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Strength of evidence for each main outcome was discussed	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Limitations of the study are presented and discussed	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Suggestions made for future research	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Authors' conflicts of interest are declared	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Supplementary Figure II: review authors' evaluation about each risk of bias item for each included study of low risk of bias (green), and high risk of bias (red).



Supplementary Figure III. A: Forest plot of gain for a sub-group of large vessel disease (affected side) in five studies of AIS. Heterogeneity is high and significant ($I^2 = 95\%$, $P < 0.00001$). B: Gain for a sub-group of five studies in large vessel disease (unaffected side). Heterogeneity is high and also significant ($I^2 = 95\%$, $P < 0.00001$).



Supplementary Figure IV. A: Forest plot of phase for serial measurement in the affected side of AIS. Heterogeneity is low and non-significant ($I^2 = 0\%$, $P = 0.51$). B: Phase for serial measurement of four studies of AIS in the unaffected side. Heterogeneity is low and also non-significant ($I^2 = 0\%$, $P = 0.91$).