Sl no	Author, Year	Trial	Subjects number	Statistical measure	Statistical value	P value	Comments
1	Cox et al., 2017 [43]	Effect of blinding of NIRS monitoring on cere- bral oxygenation	41	Correlation analysis, r	0.448 (SBP), 0.708 (DBP) and 0.608 (MBP)	< 0.0001	Authors conclude that there may not be perfect method avail- able to detect cerebral desaturations
2	Hayashi et al., 2017 [3]	Effect of maintenance of arterial blood pressure on regional cerebral tissue oxygen saturation.	20 (33 right sided and 24 left sided incidences)	NA	NA	NA	Authors conclude despite appropriate MAP management, CDEs still can occur
3	Ko et al., 2012 [4]	Correlation between the cerebral rSO_2 and the MAP at the level of brain	50	Correlation analysis, r Correlation analysis, r	0.0.078 (L), 0.099 (R) for brain level MAP 0.275 (L), 0.269 (R), for heart level MAP	< 0.01 > 0.05	Authors conclude rSO_2 measurements likely to correlate to brain level MAP measurements than heart level.
4	Kocaoglu et al., 2014 [39]	Whether MAP measurements individually paral- lel cerebral oximetry measurements by NIRS.	53	Correlation analysis, r	0.46 (L), 0.49 (R), induction to 5 minutes after BCP.	< 0.01	Authors conclude in the absence of rSO ₂ monitoring, MAP is the available alternative peripheral monitoring.
				Correlation analysis, r	0.46 (L), 0.45 (R), 30 minutes of surgery in BCP	< 0.01	
				Correlation analysis, r	0.44 (L), 0.47 (R), 60 minutes of surgery in BCP	< 0.01	
5	Schramm et al., 2016 [38] H	Effects of cardiac output and MAP on cerebral oxygen saturation	35	Correlation analysis, r	0.041*	0.15	Influence of CO on cerebral oxygen saturation seems to be more relevant than MAP.
				Correlation analysis, r	0.02**	0.44	
6	Triplet et al., 2015 [37]	, 2015 [37] Correlation of NIBP and estimated temporal MAP to rSO ₂	26 (45 incidences)	Correlation analysis, r	-0.3, NIBP (BL)	0.045	Authors conclude that NIBP and eTMAP are unreliable meth- ods for identifying a CDE in the beach chair position. Cerebral oximetry provides additional information to the val-
	a. rSO ₂ absolute value			Correlation analysis, r	-0.24, NIBP (CDE)	0.24	
				Correlation analysis, r	-0.202, eTAMP (BL)	0.183	ues obtained from NIBP and eTMAP, and all should be con- sidered independently and collectively.
				Correlation analysis, r	-0.19, eTAMP (CDE)	0.212	1 5 5
	b. % of decrease			Correlation analysis, r	0.064, NIBP	0.675	
				Correlation analysis, r	0.121, eTAMP	0.43	
7	Woo et al., 2018 [13]	Correlation between rSO_2 and blood pressure	38 (36 incidences)	Correlation analysis, r	-0.208, NIBP	0.224	Blood pressure measurements alone might not be useful in predicting the occurrence of CDFs
				Correlation analysis, r	-0.251, eABP	0.139	preatering the occurrence of CD Ltr
8	YaDeau et al., 2011 [36]	eau et al., 2011 [36] Association of rSO ₂ desaturation with potential risk factors	99	Univariate analysis estimation	3.21 (1.18 to 8.71)	0.02	Authors could demonstrate a non-significant association with episodes of hypotension ($P = 0.34$) but a significant association with the presence of risk factors for cerebrovascular disease for CDEs.
				Multivariate analysis estimate for cardiovascular risk factor (yes vs no)	104 (2.66 to 4109)	0.01	
9	YaDeau et al., 2018 [40]	Effect of positive pressure ventilation on cerebral oxygenation	3215	Correlation analysis, r (mixed effect modelling)	0.03 (- 0.08 to 0.14)	> 0.05	Cerebral oxygenation did not correlate with MAP however a moderate correlation strength ($r = 0.48$) was observed with EtCO ₂ values.