

**Table S2.** Relative effect of the unassisted primary patency of arteriovenous fistula

First author	Study design	Average age (years)	Sample size		Outcome		<i>P</i> Value log-rank test	Notes
			Experimental group	Control group	Experimental group	Control group		
Vaux E. et al. (2013) [27]	RCT	BH = 62	58	69	100%	86%	= 0.005	- AVF survival at 1 year – (assisted primary patency)
		UP = 64			74%	49%	= 0.01	- Primary patency at 1-year (intent to treat) - HR 0.46 (95% CI 0.25-0.87) <i>p</i> = 0.02
MacRae J. et al. (2014) [16]	RCT	BH = 70.3 SN = 66.7	70	69	Median 18.4 (IQR, 10.9 - 32.7)	Median 16 (IQR; 10.6 - 29.3)	= 0.2	- Median access survival (months)
					Median 12.7 (IQR, 7.8 - 19.2)	Median 16 (IQR, 10.6 - 29.3)	= 0.2	- Median access survival (intent to treat) months
Chan M. et al. (2014) [28]	CCT	BH = 60.9 RL = 64.1	45	38	57%	60%	= 0.50	- Primary patency at 1-year - HR 1.22 (95% CI 0.65-2.28) <i>p</i> = 0.53
* Peralta R. et al. (2022) [19]	RCT	MuST= 68.48 BH = 68.78 RL = 65.95	59	56	76.6%	59.6%	= 0.003	- Primary patency at 1-year - HR 2.13 (95% CI 1.07-4.21) <i>p</i> = 0.03
				57		76.8%		

Abbreviations: RCT: randomized clinical trial; CCT: controlled clinical trial; BH: Buttonhole; UP: usual practice; SN: standard needling; MuST: multiple single cannulation technique; RL: rope-ladder; IQR: interquartile range; HR: hazard ratio.

\* Study compares three cannulation techniques: MuST was experimental group versus buttonhole versus rope-ladder.