

Supplement Table 1. The PICOS (Population, Intervention, Comparison, Outcome, Study type) model [21] of the current systematic review and meta-analysis

	Inclusion	Exclusion
Population	Infertile men with clinical varicocele	Adolescent, subclinical varicocele, azoospermia
Intervention	Varicocele repair	No varicocele repair
Comparison	No treatment	If any treatment is received in the control
Outcome	Semen volume Sperm concentration Total sperm count Progressive sperm motility Total sperm motility Sperm morphology	-
Study type	Randomized controlled studies, case-control studies, cohort studies	<i>In vitro</i> , animal studies, case reports, editorials, communications, reviews, meta-analyses