

**Supplement Table 1.** PECOS (Population, Exposure, Comparator, Outcomes, Study design) of this systematic review

Category	Description
Population	Animal with varicocele
Exposure	Varicocele
Comparator	Animal without varicocele
Outcomes	<p>Primary outcome</p> <ul style="list-style-type: none"> <li>• Values of oxidative and heat stress markers (ROS), total antioxidant capacity (TAC), Malondialdehyde (MDA), sperm DNA fragmentation in animal with varicocele compared to animal without.</li> </ul> <p>Secondary outcome</p> <ul style="list-style-type: none"> <li>• Conventional semen parameters (semen volume [mL], sperm concentration [<math>\times 10^6</math>/mL], total sperm motility [%], progressive sperm motility [%] and normal sperm forms [%]).</li> </ul>

ROS: reactive oxygen species.