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| PICOS |  |
| 1.Participants | Patients undergoing cardiovascular surgery. |
| 2.Intervention | Carry out rScO2 detection and take corresponding measures to improve rScO2. |
| 3.Comparison | No rScO2 detection and processing under blinding. |
| 4.Outcomes | POCD incidence, Stroke, Atrial fibrillation, Renal failure, ICU time, Operation time, infection, etc. |
| 5.Study design | Randomized controlled study. |

Tabel 1 of supplementary materials "PICOS" approach for selecting clinical studies in the systematic search.