Inclusion and exclusion criteria according to the PICO (population, intervention, comparators, outcome) model.

Criteria	Inclusion	Exclusion
Study type	Published peer-reviewed and original studies, randomized as well as observational studies, including case series n ≥4.	Non-original publications such as reviews, editorials and letters to the editor along with conference abstracts, unpublished studies as well as technical reports and earlier systematic reviews. Studies on the use of AR in orthopedic surgery, neurosurgery, vascular surgery, and plastic surgery were excluded, as were studies conducted on animals, cadavers, or phantoms. Case reports and series <4.
Year of publishing	2014-2024	Before 2014
Language	English	All other languages
Device	Hardware and software within the augmented reality	Not applicable
Population	Aged 18 to 64 years	Aged 17 years or younger Aged 65 years or older
Intervention	Use of AR on humans within minimally invasive abdominal and thoracic soft-tissue surgery	Use of virtual reality (VR), mixed reality (MR)
Comparator	Comparison between groups with and without AR, types of devices used	Not applicable
Outcome	Knowledge generation in minimal invasive precision surgery (accuracy, usability)	Not applicable