**Appendix 2: Screening tools for title and abstract screening**

**Title and abstract screening:**

1. Is the study a **randomized controlled trial** (of any design, e.g. parallel, cross-over, cluster, etc.)?

- Yes

-No

-Unclear (specify): \_\_\_\_

2. Are **human surgical patients** the population assessed by this study?

- Yes

- No

- Unclear (specify): \_\_\_\_

3. Is **at least one hyperbaric oxygen therapy** administered in the **perioperative period** in this study?

- Yes

- No

- Unclear (specify): \_\_\_\_\_

**Full text screening:**

1. Is the study a **randomized controlled trial** (of any design, e.g. parallel, cross-over, cluster, etc.)?

- Yes

-No

-Unclear (specify): \_\_\_\_

2. Are **human surgical patients** the population assessed by this study?

- Yes

- No

- Unclear (specify): \_\_\_\_

3. Is **at least one hyperbaric oxygen therapy** administered in the **perioperative period** in this study?

- Yes

- No

- Unclear (specify): \_\_\_\_\_

4. Is the intervention for prevention of complication (i.e. NOT treatment)?  (Note: the goal of our systematic review is to investigate prevention of HBOT in the periop period)

- Yes

- No

- Unclear (specify): \_\_\_\_\_

5. Does the study include a sham group (<1.4 ATA in the chamber) or usual care group (i.e. no HBOT)

- Yes

- No

- Unclear (specify): \_\_\_\_\_

6. Does the study report clinical outcome (and not ONLY biological like cytokines, etc.) (Note: If a study includes neuropsychological or cognitive scores please write it under the “unsure” option)

- Yes

- No

- Unclear (specify): \_\_\_\_\_

7. Any other comments regarding the study that you were uncertain of, or that you think will help to reach consensus?

8. Is this publication written in English?

- Yes

- No

- Unclear (specify): \_\_\_\_\_