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**The ICARUS (Intraoperative Complications Assessment & Reporting with Universal Standards) Checklist\***

Information to include when reporting intraoperative adverse events during and after surgical procedures

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| --- | --- | --- |
| **Item number** | **Item** | **Reported in line/page and/or table†** |
| **1** | In a study reporting perioperative outcomes, the intraoperative adverse events (iAEs) are reported as one of the outcomes of interest |  |
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| **2** | The intraoperative adverse events (iAEs) definition and the nomenclature of each specific iAE is reported or referenced |  |  |
|  |
| **3** | Each intraoperative adverse event (iAE) is reported using one of the proposed classification severity systems |  |  |
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| **4** | Each intraoperative adverse event (iAE) is reported separately by severity grade using one of the proposed classification systems |  |  |
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| **5** | Anesthesiologic and surgical/interventional and/or equipment malfunctional intraoperative adverse events (iAEs) are reported separately |  |  |
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| **6** | The number of intraoperative adverse events (iAEs) and the number of patients reporting the iAEs is reported separately |  |  |
|  |
| **7** | Preexisting medical conditions, atypical anatomical variants or malfunctioning surgical/interventional or anesthesiologic instruments associated with intraoperative adverse events (iAEs) are reported |  |  |
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| **8** | If the intraoperative adverse event (iAE) requires a conversion, both the iAE that caused the conversion and the action undertaken are reported |  |  |
|  |
| **9** | The intraoperative adverse events (iAEs) are reported specifying the surgical/interventional step or anesthesiologic maneuver that was associated with or affected by the iAEs |  |  |
|  |
| **10** | The timing of the intraoperative adverse events (iAEs) assessment is reported as follows: |  |  |
| *a) The iAE(s) is recognized during the surgical procedure;* |  |
| *b) The iAE(s) is not recognized during the surgical/interventional procedure time or anesthesiologic time. In this case report the point at which the iAE became apparent in the postoperative course* |  |
| **11** | The management of the intraoperative adverse events (iAEs) is reported |  |  |
|  |
| **12** | The postoperative consequence of the intraoperative adverse events (iAEs) in the postoperative course are reported as follow: |  |  |
| *a)     Without post-operative consequence* |  |
| *b)     With non-permanent post-operative consequence* |  |
| *c)     With a permanent post-operative consequence* |  |
| *d)     Requiring a re-operation* |  |
| *e)     Post-operative death* |  |
| **13** | Changes to the clinical course that were associated with any intraoperative adverse events (iAEs) are reported. |  |  |
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\* We recommend using this checklist in combination with the ICARUS guide (<https://doi.org/10.1016/j.euf.2022.01.018>) , which includes an explanation and elaboration for each item.

**Note for Authors** - use N/A if an item is not applicable for the type of study described.

**Note for Reviewers** – use ‘?’ if information about the component is not reported/not sufficiently reported.

† If the information is not specified in the primary paper, report details of where this information is obtainable. This may include locations such as a published protocol, other published papers (provide citation details), or a website (provide the URL).