Risk assessing packages

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| Document development, review and version history |
| ***Development and Review***   |  | Name | Date | | --- | --- | --- | | Authored/Revised by | XXXXXXXXXX | xxxx-xx-xx | | Reviewed by | YYYYYYYYYY | xxxx-xx-xx | | Released by | ZZZZZZZZZZ | xxxx-xx-xx |   ***Version History***   | Version | Date | Author | Summary of Changes | | --- | --- | --- | --- | | 0.1 | xxxx-xx-xx | XXXXXXXXXX | Initial draft | |

This page functions as the work instruction for the risk assessment of R packages within the SCTO Statistics & Methodology Platform framework.

In order to perform a risk assessment:

* **first, check whether the package has already been risk assessed**. This can be done by any of the following methods:
  + the check\_session function from the [R package validation](https://swissclinicaltrialorganisation.github.io/validation/) can be used from within your R session to check if a package has been risk assessed.
  + check the table on the [Package assessment page](../results/pkgassessment.qmd) of this site
  + check for the package in the [package validation GitHub repository](https://www.github.com/SwissClinicalTrialOrganisation/pkg_validation/issues) by searching for it among the issues using the search bar towards the top of the page (remember to remove the is:open filter). E.g. to search for dplyr, the search might be is:issue dplyr
* **if it has been risk assessed**, check the associated risk and consider whether any functions within package need additional testing for your use case.
* **if it has not been risk assessed**, go to the [package validation GitHub repository](https://www.github.com/SwissClinicalTrialOrganisation/pkg_validation/issues)
  + click the green “New issue” button (towards the top right)
  + select the New package risk assessment template by clicking the green Get started button on the right
  + fill in the form, following the instructions provided. Additional notes on the risk metrics can be found on the [Risk metrics page](../sop/risk_metrics.qmd).
    - Note that the [R package validation](https://swissclinicaltrialorganisation.github.io/validation/) contains various useful functions to help with the risk assessment process. Especially useful are:
      * get\_n\_deps, which returns the number of dependencies of a package,
      * get\_12month\_downloads which returns the number of downloads of a package in the last 12 months, and
      * get\_release\_date finds the release date of a package.
  + Once you have completed the form, click the green “Submit new issue” button at the bottom of the page.
  + Submitting the form will trigger an automated job that will calculate the risk based on the information you entered into the form and post a comment on the issue.

