Abstract: Please provide a brief summary of your app - what it is, what it can do, and how it was built (max. 250 words).

ShinyConf 2023

<https://docs.google.com/forms/d/e/1FAIpQLScm8kOG3z8rWwO3J4zu7k1qI0-md-4yzyyyhc4ykYs0EV43ag/viewform>

**all-virtual ShinyConf by Appsilon on March 15-17, 2023**

Shiny App Showcase (5-10 minutes, pre-recorded walkthrough)

Since 2021, the FDA and the NIH have increased citations and notifications for non-compliance with required results reporting on ClinicalTrials.gov (STAT NEWS ARTICLES). Many studies still do not submit results to ClinicalTrials.gov; some do not publish results after 3 years following study completion [NIH report, 2021 AMA reference].

Institutions are limited by a system that provides useful data, but additional steps are required to plan for future actions. Some institutions develop procedures that are not reproducible elsewhere (ref: nihms-1636720)

Transparency groups summarize compliance with required reporting. Private companies have developed software to monitor compliance with a cost. To date, there are a lack of low cost solutions to help institutions remain compliant.

The Clinical Trials Dashboard aims to increase compliance by making tracking registration and results status simple, transparent, and reproducible. A user uploads the csv files downloaded from the Protocol Registration and Results System and the dashboard utilizes packages including dplyr, lubridate, zoo, and janitor to merge, aggregate, and flag studies for review. Date range and aggregation controls are on the sidebar. Shiny widgets on the sidebar allow users to drill down to specific study types or studies that require results reporting. Plotly line plots are generated to show interactive metrics for study registration and results . Downloadable reports include tabulated report of registration and results as displayed in the dashboard, prospective results due in the next quarter, and an excel file with contact information for results due to assist in contacting investigators. The conductor package was used to create a step-by-step guide for users, and other packages including shinyjs, shinybusy, and shinyFeedback were used to increase usablilty.

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