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APAC 2026

TLF Treasure Hunt:
Making Legacy Data Instantly Discoverable with RAD Finder

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Agenda

Disclaimer

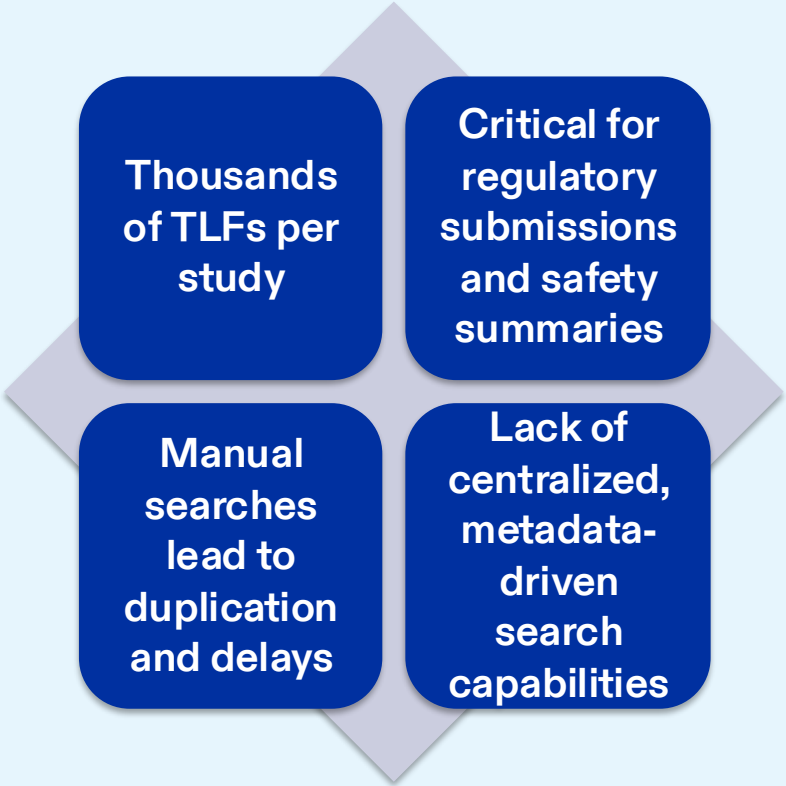
We confirm that, the opinions and thoughts discussed in this presentation are subject to our own independent views and are not subject to the opinions of the organization that we represent.

Introduction

- Unprecedented surge in clinical data generation
- Millions of data points per trial
- Manual retrieval is time-consuming and inefficient
- Need for metadata-driven tools

Background

(how did we come up creating the app?)

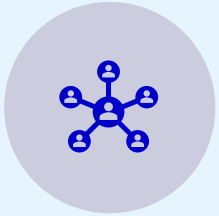


Overview

- Primary repository for finalized TLFs
- Robust storage but lacks advanced search
- Manual searches across systems are inefficient
- Need for complementary solution

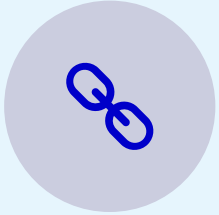
RAD Finder App

Shiny-based application



Centralized access to TLFs

Metadata-driven search



Direct links to PDFs and files

Features

01 Metadata Filters

02 Keyword and exclusion search

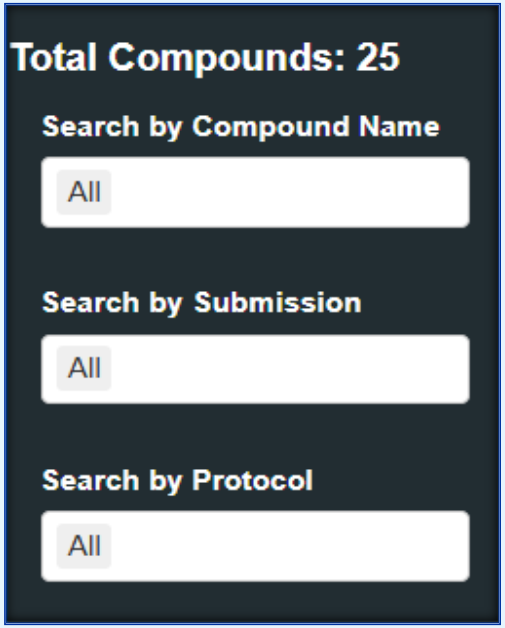
03 Run date filtering

04 Footnotes search

05 Direct access links to outputs

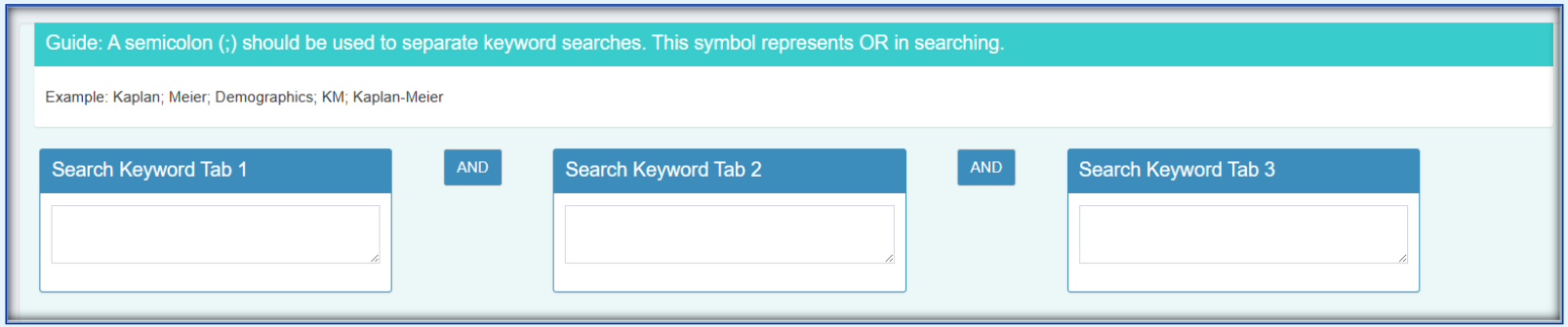
FEATURES: Metadata Filters

- Users can filter by:
  - Compound Name
  - Submission
  - Protocol
- Selections can be made via dropdown menus or manual input, with an option to select “**All**” for broader searches.



FEATURES: Keyword Search Tabs

- Supports **multiple keywords** search separated by semicolons (;), representing **OR** logic.
- Combines all keyword tabs using **AND** logic for refined results.

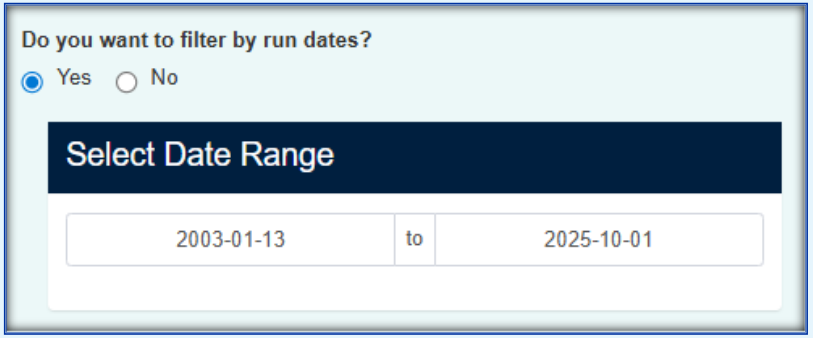


FEATURES: Exclusion Search Tabs

Users can **exclude unwanted keywords** to narrow results further.

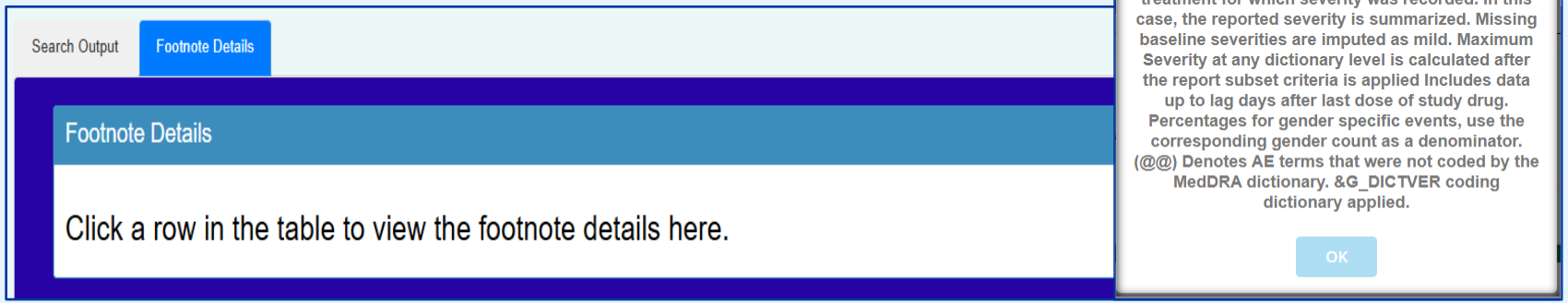
FEATURES: Run Date Filtering

A toggle allows **filtering by run dates**, with a **date range selector** for precise control.

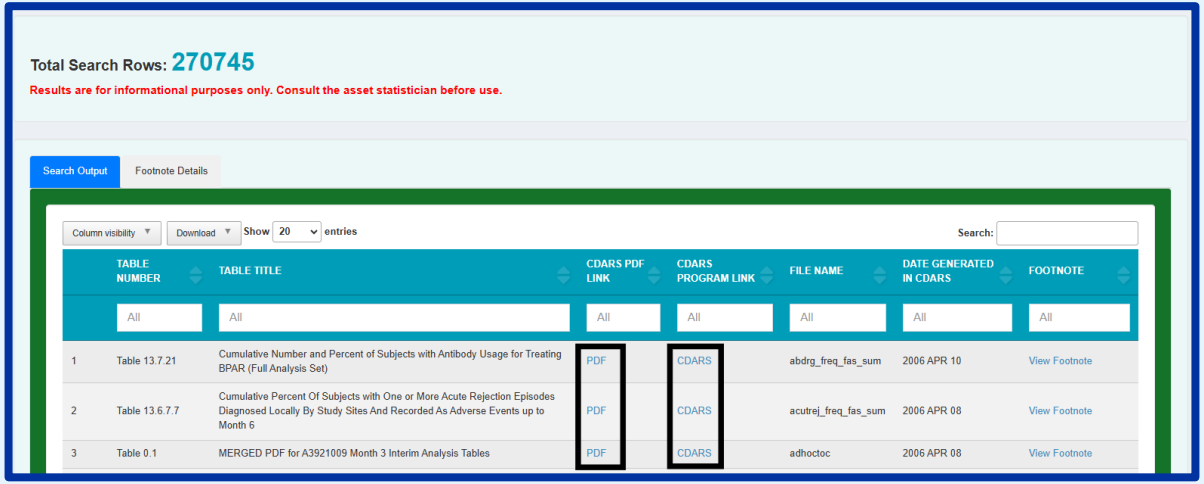


FEATURES: Footnotes Search

Introduced in version 1.3 and enhanced in version 1.4, **footnotes can now be searched and viewed** in the Details tab



FEATURES: Direct Access Links



- **PDF Link:** Opens the TLF file.
- **TOT Link:** Redirects to the TOT filename.

User Workflow

LAUNCH	Launch app via RAD Finder portal
SELECT	Select filters (compound, submission, protocol)
ENTER	Enter keywords and exclusions
APPLY	Apply date range filter if needed
SEARCH & REVIEW	Search and review results
ACCESS	Access outputs via PDF/TOT links

Benefits & Impact

Reduces retrieval time from hours to minutes

Minimizes redundant analyses

Supports faster decision-making

User-friendly interface for non-technical users

Limitations

- Metadata completeness dependency
- Outputs for informational use only
- Scope limited to finalized TLFs in repository

Future Enhancements

Integration with additional repositories

Advanced analytics and visualization

AI-powered semantic search

Continuous improvement via user feedback

Conclusion

- RAD Finder transforms TLF retrieval
- Aligns with digital transformation trends
- Supports efficiency, transparency, and collaboration
- Foundation for next-gen data ecosystems

References

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- **Shiny for R (Posit)** - https://shiny.posit.co/
- **htmlwidgets for R** - https://www.htmlwidgets.org/
- **Mastering Shiny** - https://mastering-shiny.org/index.html
- **Pfizer Programming Master Handbook**

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