WU CONSULTING GROUP

CLINICAL BIOMETRICS
CASE STUDY

ENTERPRISE BIOMETRICS MODERNIZATION

Full SAS-to-R Migration for AI Enablement

A multi-year transformation modernizing statistical programming, expanding R & R-Shiny, and building the foundation for AI-enabled clinical development at a leading global biotechnology company.

7	100+	8	3 Yrs
WUG R / R-Shiny Developers Embedded	Active Clinical Trials Supported	Clinical Domains Digitized	Into Multi-Year Roadmap

Clinical development is generating larger, more complex datasets while organizations seek to modernize legacy analytics environments and prepare for AI-enabled development. A leading global biotechnology company established a dedicated **Clinical Data Science & Innovation Team** to accelerate enterprise SAS-to-R modernization, R-Shiny application development, and advanced clinical analytics. **Wu Consulting Group is the primary resourcing vendor**, currently providing **7 of the 15** specialized R / R-Shiny developers supporting this transformation across a portfolio of **more than 100 active clinical trials**.

MULTI-YEAR TRANSFORMATION ROADMAP

COMPLETE — Yr 1–3
Clinical Data Review Platform
Interactive R-Shiny applications delivered across 8 clinical domains.

IN PROGRESS — Now
SDTM Automation & ADaM in R
Automating SDTM workflows and ADaM derivation natively in R.

NEXT — Planned
Full R Submission
End-to-end R-based regulatory submission packages.

FUTURE — Vision
Agentic AI Workflows
AI agents accelerating programming, QC, and analytics.

THE DELIVERED SOLUTION

Clinical Data Review Platform — a suite of R-Shiny applications with summary dashboards, patient-level drilldowns, advanced filtering, data export, and patient timelines that centralize clinical information once locked in extensive querying and manual review. The platform spans eight integrated clinical domains:

- Demographics
- Adverse Events
- Serious AEs
- Laboratory Data
- Vital Signs
- Con-Meds
- Medical History
- Drug Administration

FROM BOTTLENECK TO SELF-SERVICE

× WITHOUT THE PLATFORM — 4–24 HOURS

Medical Director Query → Stat Programming Backlog → Run SAS / SQL → Email Report → Manual Excel Review

✓ WITH THE PLATFORM — MINUTES

Medical Director Query → Instant Dashboard → Interactive Drill-down → Real-Time Review

THE IMPACT

"Instead of asking stat programmers for ad-hoc queries and waiting days for Excel reports, medical directors and clinical scientists can answer their own data questions in minutes via an interactive platform."

— Executive, Leading Global Biotechnology Organization

★ **Organizational adoption is accelerating.** Clinical Scientists and Medical Directors now actively request prioritization of their studies for inclusion in the Clinical Data Review Application development roadmap.

ABOUT WU CONSULTING GROUP

A trusted Biometrics partner to **20+ active sponsor organizations**, delivering senior end-to-end support across the clinical development lifecycle.

- Statistical Programming
- Biostatistics
- Data Management
- AI / ML & Data Science