

Software

Statistical Programming Tools

A key component of the clinical trials process is the accurate and timely programming of statistical results. This is best accomplished through reusable reporting software modules. PharmaStat uses the APT© (Analysis Programming Tools) Software Library for statistical reporting.

The APT© software can enhance the productivity and quality of statistical reports and give the programmer the flexibility to create many of the reports recommended in ICH E3: Structure and Content of Clinical Study Reports.

The APT© reporting process benefits our clients in the following ways:

- Enhanced productivity from statistical analysts
- Greater reliability and confidence in reported results
- Consistent layout
- Publication ready output tables in rtf, html, pdf, or ASCII

APT© is a suite of SAS™ macros that produce statistical reports from clinical trials data. The APT© library runs under SAS™ Versions 8.x and 9.x on Windows and Unix. SAS/BASE and SAS/STAT are required. The statistics are derived directly from SAS statistical procedures. The software is designed to be used by SAS programmers and statisticians. See our case study (<http://www.pharmastat.com/case-studies/mid/implementing-apt-for-cdisc-data/>) for more information about implementing APT© in your statistical computing environment. The types of statistics produced include:

- Counts and percentages of observations by category
- Univariate descriptive statistics
- Counts of unique subjects by category
- P-values for linear models, frequency counts, nonparametric comparisons, and survival analysis
- Difference in means or proportions between groups and confidence intervals for the difference

Documentation, Training and Support

A detailed user manual is included with examples demonstrating every aspect of the software. On-site training for a fast start can be provided. Implementation services includes a comprehensive validation solution for the APT© tools. A complete set of documentation is provided (validation plan, IQ, OQ, PQ, traceability matrix, and validation report).

[DOWNLOAD BROCHURE \(/WP-CONTENT/UPLOADS/2014/07/APT-REPORT-LIBRARY-INTRODUCTION.PDF\)](#)



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