



Technology | Consulting | Outsourcing

# ClinPlus® Coding

- Industry's fastest auto-coding software
- Supports MedDRA, WHO Drug, ICD and custom dictionaries
- Fully compatible with WHO Drug Dictionary Enhanced
- Advanced phrase substitution algorithm maximizes hit rates.
- Powerful search engine increases productivity
- Codes SAS®, SQL and ORACLE data
- Complete audit trail documentation
- Configurable management approval functions
- Predefined AND Custom report capability





# ClinPlus® Coding

## EXECUTIVE OVERVIEW

*Much of the data collected during clinical trials is collected at different sites, by different physicians, in different time-zones, and increasingly in different cultures. This situation as well as other factors leads to inconsistencies and variation in the data that is entered into CRF fields. One of the greatest challenges to achieving clean data is to somehow control the consistency of terminology throughout the study. The solution for varying fields of data within a study is a process referred to as coding. The data originally entered is compared and matched with standard libraries or dictionaries and updated with a data which is uniform and acceptable. Coding can be done automatically (computer-aided), manually or a combination of both. The more consistent the data is, the more reliable the data analysis and integrity of the study report and eventual submission to the regulatory authorities.*

## ClinPlus® Coding Software

### 1 | Your complete solution for every clinical coding need

**ClinPlus Coding** is the most powerful coding software available in the life sciences industry. With unmatched speed and flexibility, **ClinPlus Coding** will meet all your adverse event and drug coding challenges accurately and consistently.

**ClinPlus** has been providing this extremely reliable coding software for more than 15 years. The latest release represents a complete re-engineering of our coding software to incorporate the latest technology and to address changes in dictionary formats and industry requirements, while retaining the reliability and flexibility that **ClinPlus** users have come to expect.

**ClinPlus Coding** utilizes technology that supports deployment in either Oracle or SQL Server environments and allows coding of Oracle, SQL Server, and SAS data using a single implementation. Whatever the configuration, installation, training, and project set-up time are minimal. A task-oriented interface provides quick navigation and will quickly become familiar to your users. Comprehensive context-sensitive help is always just a click away.

**ClinPlus Coding** supports virtually any dictionary: MedDRA, WHO Drug (B-1, B-2 and C formats), COSTART, WHO-ART,

ICD 9, ICD10 and home-grown dictionaries. The country and ingredient information, found in the WHO Drug C format dictionary, is utilized during auto and manual coding.

### 2 | Outstanding hit rates with auto-coding

**ClinPlus Coding** is the fasted solution for your coding challenges. It runs with unprecedented speed, as thousands of records are auto-coded in less than a minute. Details of each coding job are permanently maintained.

### 3 | Phrase Substitution

Phrase substitution lists are maintained to dramatically increase hit rates. These lists allow you to control the substitution, removal, or modification of single words, phrases, or information contained within qualifiers.

For example, you can substitute “blood pressure” for “bp” or the suffix “s” for “ing,” effectively changing words like “feels” to “feeling.” You can also use phrase substitution to remove words or phrases — you can remove the words “really” and “bad” so terms such as “really bad headache” will match as “headache.”

Qualifiers such as parentheses may be used to remove extraneous information, for example: fever (101.5) would match to



"With the latest version of the **ClinPlus Coding** tool, we were able to integrate our own custom corporate dictionary and dramatically improve our coding productivity."

— Anonymous,  
**Tier I Pharma Client**

fever: All matches possible are presented as suggestions in ranked order for selection.

**4 | Flexibility while manual coding**  
One of the biggest challenges in coding is to maintain consistency while still having control over coding decisions. With **ClinPlus Coding** you can accomplish this easily, because the system "learns" as you code. After auto-coding, you can load all un-coded records and use the various search options to quickly find the right match. You can choose to perpetuate your decision to other records with the same verbatim text, or you can choose to automatically add your coding decisions to the thesaurus for use during future coding sessions.

**5 | Dictionary Management**  
Any number of dictionaries, including multiple versions of the same dictionary, may be used. Dictionary loading is completed in minutes. Scripts are provided to load all common dictionaries (MedDRA, WHO Drug, COSTART, WHO-ART, ICD 9 and ICD 10) into SQL Server, Oracle or SAS. Additional scripts may be added as needed. A supplemental thesaurus is available to maintain terms or medications that either are not found in the main dictionary or are used to override dictionary coding. Terms/meds may be added during manual coding sessions (pending approval).

**6 | Multiple SOC (System Organ Class) or ATC (Anatomical Therapeutic Class) codes**

When encountering codes that link to multiple SOC or ATC codes, you can choose them yourself or let the system assign the dictionary default. Or, when auto-coding, you can set the system to pre-select the default or primary path as defined in the dictionary.

**7 | Keeping Track of Decisions**

Every code assignment and method is recorded in an audit trail, providing access to the coding history of each record along with summary information for each auto-coding job. All coding decisions may be reviewed and marked as approved, with the audit trail recording the details of every approval.

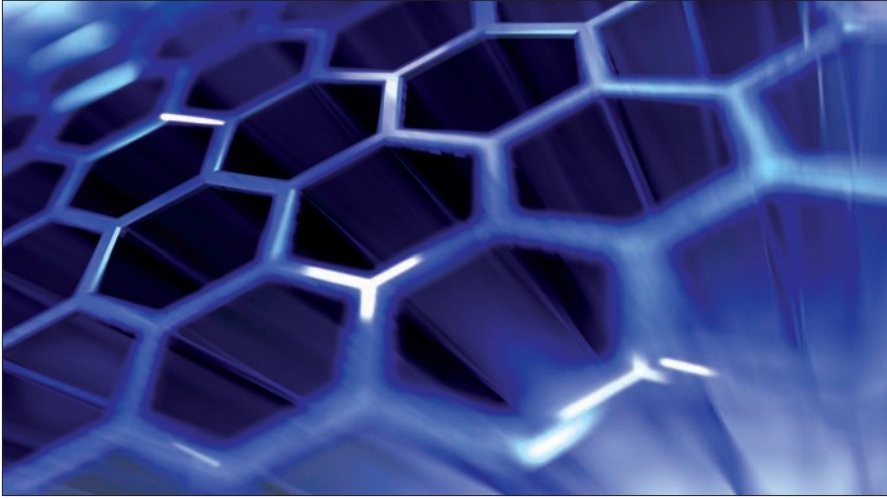
**8 | Produce Customized Reports**

The report interface is used to produce a variety of the predefined coding reports such as: All Terms Un-coded Terms, Coded Terms, Multiple Body System/ATC, Frequency Counts, or Coding History. Subset data and you can tailor any report by choosing variables to include, by rearranging columns, or by changing the sort order and pagination, and then saving as a user defined report. Alternatively, you can write your own custom reports from scratch.

**MORE FROM CLINPLUS**

**ClinPlus** also offers a complete range of support services to help you maximize your software investment and assure your success. Our dedicated staff average over 10 years experience in the clinical trials arena, and can provide immediate support in the following areas:

- **Training**
- **Hosting**
- **Study Set-Up**
- **Screen Design**
- **Coding**
- **Template Design**
- **Table & Listing Design**
- **CDISC/SDTM/ADaM Conversion**
- **SAS Programming**



## 9 | Meet the Coding Challenge

Accuracy and speed are critical to successfully meet your coding challenges. **ClinPlus Coding** reduces the need to manually code while increasing consistency and maintaining flexibility. In addition to multiple database support, many other useful enhancements have been made.

## About DZS Software Solutions, Inc.

### **DZS Software Solutions, Inc.**

([www.clinplus.com](http://www.clinplus.com)) is a privately held company founded in 1996 providing clinical trials software for clinical data management and analysis to the biotech and pharmaceutical industry worldwide. Over 50 clients globally presently use **ClinPlus** software for data collection and capture, data cleansing, coding, analysis, clinical trial management and reporting. When the software is coupled with DZS services and training, many **ClinPlus** clients have dramatically improved productivity and maximized the value of clinical research investments and gained a competitive advantage to get medicines and products to market faster.

The **ClinPlus Software Solutions Suite for Clinical Trials** provides premium tools required by pharmaceutical companies, contract research organizations

(CROs), biotech, and medical device manufacturers to expedite clinical trials and meet the strict data formatting requirements of the FDA and other global regulatory agencies.

The **ClinPlus Software Solutions Suite's** unmatched cost-of-entry, scalability, flexible delivery options and exceptional training and support have gained DZS a reputation for delivering exacting quality and helping clients achieve early visibility to reliable clinical data.

DZS software engineers possess decades of statistical analysis, clinical data management, and ADE/Drug coding and table/list/report building experience.

This real-world experience is incorporated into every **ClinPlus** system design and is evident in the reliability and enhanced features found in all.



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For more information please visit:  
**[www.clinplus.com](http://www.clinplus.com)**



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