

T.D.M.S. 2000™ Version 10.01. New Features and Changes

This document summarizes the changes to version 10.01 of T.D.M.S. 2000™.

One-Step License Renewal. Now a group of computers can have their licenses updated at one location. By checking the new “Use Shared License” checkbox on the title screen, you can direct each workstation to share one config.dat file that contains the expiration date of your program. In this way, you will only have to update one location each year when you renew your license rather than each computer separately. If the box is unchecked, the config.dat file will need to be located on the individual computer just as it has been on previous versions.

T.D.M.S. 2000

THERAPEUTIC DRUG MONITORING SYSTEM

Version 9.12.03	Copyright 1986-2010	Healthware, Inc.
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Today's Date:
12/21/2009

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Use Shared License

Current License Valid Until: 12-31-2010

Bulk Record Deletion. See screens below. Large numbers of records can be deleted using the database search screen. Entering start and end dates in the boxes on the lower left of this screen will search your entire database to identify records that have not been modified since this time period. You can then use the new “Delete All” button on the next screen to reduce the size of your database. Note that records found in this time period that were updated after the end of the time period are *not* included and will *not* be deleted. We recommend that you save a copy of your database in a secure location before deleting large numbers of records.

Unit Defaults. Patient height and weight now default to metric units (i.e., cm and kg) rather than English units on the patient demographics input screen.

Changed Bioavailability Display. The oral bioavailability (F) is always displayed when more than one route is chosen. IV bioavailability is always 100%.

Phenytoin Dosage Form Entry. Phenytoin dosage forms are now all entered on the spreadsheet using the letters C, S or T for (C)apsule, (S)uspension, (T)ablet for oral forms. This change allows more flexibility in mixing oral dosage forms in a patient and more accurately tracks salt form factors.

Changed Program Flow. After fitting serum concentrations and making estimates of serum concentrations using fitted pharmacokinetic parameters on the Routine or Detailed Analysis screens, pressing the “Back” button now returns you to the Factors screen. This ensures that all factors are always considered in the starting population values on the next screen and in curve fitting.

New LBW equation. The equation for calculating lean body weight (total weight minus fat weight) in adults has been changed to an improved equation (Han PY et al. Clin Pharmacol Ther 2007;82:505-8).

Revised Adjusted Weight Definition. T.D.M.S. 2000™ now defines adjusted body weight as follows: TBW for patients weighing less than their IBW, IBW for patient at or above their IBW, and LBW at and beyond the point where IBW exceeds LBM.

Revised CL_{cr} Calculation. The Cockcroft-Gault equation now uses the new adjusted weight. Using LBW in morbid obesity results in a more accurate prediction of CL_{cr} in this population (Demirovic JA et al. Am J Health Syst Pharm. 2009;66:642-8).

Revised Clearance Calculations for Aminoglycosides and Vancomycin. The nonrenal component of clearance of these drugs is now calculated using the new adjusted weight rather than the dosing weight of $IBW + 0.4(TBW - IBW)$. The calculated clearances will be lower in morbidly obese patients.