

## CMG 2.00 GROUPER SOFTWARE EFFECTIVE ON 10/01/2005 FOR USE WITH THE IRF-PAI

*Please note that as of August 16, 2005, a new version of the DLL is available (DLL Version 2.01). This version fixes a bug in the prior version (DLL Version 2.00) that was released earlier in August, 2005. See below for details.*

This documentation is for a revised version of the CMG dynamic-link library (DLL) for use in classifying patients in Inpatient Rehabilitation Facilities (IRFs). This revision represents version 2.01 of the DLL. This revised DLL implements the second version of the CMG classification system, version 2.00. CMG 2.00 must be used to classify patients discharged on or after October 1, 2005.

This documentation and the CMG DLL are published by the Centers for Medicare & Medicaid services (CMS). The documentation and DLL may be copied freely, as our goal is broad dissemination to facilitate accurate classification of Inpatient Rehabilitation Facility (IRF) patients with the Case Mix Group (CMG) classification system.

### ***Introduction***

This documentation describes a Windows DLL that can be used to calculate a patient's CMG group for version 2.00 of the CMG classification system from Inpatient Rehabilitation Facility Patient Assessment Instrument (IRF-PAI) data. CMG\_200.DLL is a 32-bit ActiveX DLL that can be called from Visual Basic or from 32-bit C++ applications. The DLL accepts an input string containing an IRF-PAI data record in the standard CMS submission format and returns the CMG value and associated information. Documentation for the IRF-PAI standard submission format, as well as the DLL and associated documentation, is available at:

[http://www.cms.hhs.gov/InpatientRehabFacPPS/06\\_Software.asp](http://www.cms.hhs.gov/InpatientRehabFacPPS/06_Software.asp)

The ZIP file (CMG\_201.ZIP) containing the DLL software and this documentation may be freely distributed and you may freely use and distribute the DLL in your applications.

The ZIP file contains a document named TechDoc.PDF that explains how to call the DLL from Visual Basic and from C++. It describes the input and output parameters used when calling the DLL, the parameter file that must be distributed with the DLL, and the error codes that are returned by the DLL.

### **What is CMG 2.00?**

CMG 2.00 is a new classification system for patients in Inpatient Rehabilitation Facilities (IRFs). The CMG system uses information from the IRF Patient Assessment Instrument (IRF-PAI) to perform these classifications. CMG 2.00 must be used for all patients discharged on or after October 1, 2005.

Version 2.00 of the CMG classification system incorporates the following revisions:

1. The methodology for computing the motor score has been changed. The new methodology is described in detail in the program documentation that accompanies the DLL. Briefly, the following changes have been made: Twelve IRF-PAI items are used to calculate the motor score. In previous versions, if any of these items had a value of zero, it was recoded to 1 before computing the motor score. This is now true for all items except Item 39Ja (toileting transferring). If Item 39Ja has an input score of zero, it is recoded to a value of 2. In previous versions, the motor score was the simple sum of the 12 items after performing the recoding described above. In the new version, a weight is applied to each recoded value; the motor score is the sum of the weighted scores. The weights are provided in the program documentation (ProgDoc.PDF).
2. The list of comorbidities has been changed substantially. Comorbidities were added (PDF, 33kb) and deleted (PDF, 24kb), and many tier assignments have changed. Please refer to the Appendix C and Appendix D in ProgDoc.PDF for details.
3. The criteria used to assign cases to CMG groups have changed. Please refer to the program documentation for details. Please refer to Appendix E in ProgDoc.PDF for details.

Please contact your Fiscal Intermediary if you have any problems concerning claims submissions with regard CMG 2.00. If there continues to be a claims issue **after** contacting your Fiscal Intermediary, please contact Pete Diaz at [Pedro.Diaz@CMS.HHS.GOV](mailto:Pedro.Diaz@CMS.HHS.GOV).

Providers are encouraged to obtain new versions of IRVEN or other vendor software that have added classification with the new Version 2.00 of the CMG Grouper for use after October 1, 2005. For submitted records requiring the new 2.00 Grouper (records with discharge on or after October 1, 2005), the provider will receive a warning on the validation report that an incorrect group code has been submitted. The validation report will also provide the correct group code, and the provider should use that correct group code for Medicare billing.

**The ZIP file CMG\_201.ZIP contains the CMG 2.00 grouper package and includes:**

1. **CMG\_200.DLL** A Windows DLL that can be called by Visual Basic 6.0 or 32-bit C++ applications to perform CMG classifications.
2. **CMG\_200.DAT** A parameter file use with CMG\_200.DLL.
3. **TechDoc.PDF** Technical documentation for the use of the 2.00 DLL.
4. **ProgDoc.PDF** Programmer documentation for coding version 2.00 of the CMG classification system.
5. **VbDemo.\*** A Visual Basic 6.0 demo program including source and executable code.
6. **CMGTest4.TXT** A test file of IRF-PAI records with known CMG values. If you run VbDemo.exe, a log file named VbDemo.log will be produced. This log file

gives the correct CMG value for each test record (as well as intermediate values such as the motor score and cognitive score).

### **How Can I Get CMG 2.01?**

Download the grouper package ([CMG\\_201.ZIP](#)). (Zip file, 798kb)

Included as part of CMG\_201.ZIP is the file Techdoc.pdf which explains the use of the DLL.

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### **Technical Assistance**

There is an IRF-PAI Support Desk to help you with technical problems and concerns with the grouper. The number to call is 1-800-339-9313. You may also e-mail requests for assistance to [irfpai\\_help@ifmc.org](mailto:irfpai_help@ifmc.org).