



Summary of Changes

3M™ All Patient Refined Diagnosis Related Groups (APR DRG)

ICD-10-CM/PCS
v42.0

GRP-377

Publication date October 2, 2024 10:37

Copyright © Solventum 2024

This product contains material and information that is confidential and proprietary to Solventum and its licensors. The use of this product is governed by a license agreement. Except as explicitly permitted in the license agreement or permitted in writing by Solventum, no part of this product shall be: (i) reproduced, in whole or in part, by any electronic or mechanical means, (ii) disclosed or otherwise made available to, or accessible by, any third party (iii) sublicensed, leased, lent, or transferred to any third party, (iv) used for the benefit of any party other than the licensee, (v) disassembled, decrypted, decompiled, reverse-engineered, or (vi) used to create derivative works. This product includes commercial technical data and/or computer databases and/or commercial computer software and/or commercial computer software documentation, as applicable, which were developed exclusively at private expense by Solventum, its subsidiaries, affiliates and licensors. Applicable FAR/DFARS restrictions, and associated license terms, apply to US Government use. Solventum Health Information Systems can be contacted at 575 West Murray Boulevard, Murray, UT 84123. It is the policy of Solventum HIS to improve products as new technology and software become available. Because of this, Solventum HIS reserves the right to make changes in the specifications and materials contained herein without notice. Solventum complies with all applicable federal and state laws and regulations pertaining to patient privacy.

Solventum, the S logo and other trademarks are trademarks of Solventum or its affiliates. 3M, the 3M logo and other trademarks are trademarks of 3M. Other trademarks are the property of their respective owners.

Incorporating the International Statistical Classification of Diseases and Related Health Problems - Tenth Revision (ICD-10), Copyright World Health Organization, Geneva, Switzerland, 1992-2010.

If this product includes CPT® or CPT® Assistant, the following notices are applicable. CPT © 2023 American Medical Association. All rights reserved. CPT is a registered trademark of the American Medical Association. This product includes CPT and/or CPT Assistant which is commercial technical data and/or computer databases and/or commercial computer software and/or commercial computer software documentation, as applicable which were developed exclusively at private expense by the American Medical Association, 330 N. Wabash, Suite 39300, Chicago, IL 60611-5885. The responsibility for the content of any "National Correct Coding Policy" included in this product is with the Centers for Medicare & Medicaid Services and no endorsement by the AMA is intended or should be implied. The AMA disclaims responsibility for any consequences or liability attributable to or related to any use, nonuse or interpretation of information contained in this product. U.S. Government rights to use, modify, reproduce, release, perform, display, or disclose these technical data and/or computer data bases and/or computer software and/or computer software documentation are subject to the limited rights restrictions of DFARS 252.227-7015(b)(2) (June 1995) and/or subject to the restrictions of DFARS 227.7202-1(a) (June 1995) and DFARS 227.7202-3(a) (June 1995), as applicable for U.S. Department of Defense procurements and the limited rights restrictions of FAR 52.277014 (June 1987) and/or subject to the restricted rights provisions of FAR 52.22714 (June 1987) and FAR 52.227-19 (June 1987), as applicable, and any applicable agency FAR Supplements, for non-Department of Defense Federal procurements. Fee schedules, relative value units, conversion factors and/or related components are not assigned by the AMA, are not part of CPT, and the AMA is not recommending their use. The AMA does not directly or indirectly practice medicine or dispense medical services. The AMA assumes no liability for data contained or not contained herein.

If this product includes UB-04 information: Copyright 2024, American Hospital Association ("AHA"), Chicago, Illinois. Reproduced with permission. No portion of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior express, written consent of AHA.

Table of Contents

3M™ APR DRG Summary of Changes	7
Accessing files attached to this document	8
Discharge status changes	9
Diagnosis and procedure code changes	10
New diagnosis codes effective 10/01/2024	10
Deleted diagnosis codes effective 10/01/2024	10
Revised diagnosis code descriptions effective 10/01/2024	10
New procedure codes effective 10/01/2024	10
Deleted procedure codes effective 10/01/2024	10
Revised procedure code descriptions effective 10/01/2024	10
DRG and MDC changes	10
MDC description revision	10
MDCs with surgical hierarchy restructuring	10
New DRGs	11
Deleted DRGs	12
Revised DRG titles	12
MDC 1 Diseases and disorders of the nervous system	13
DRG 043 Multiple sclerosis, other demyelinating disease and inflammatory neuropathies	13
DRG 046 Nonspecific CVA and precerebral occlusion without infarction	13
DRG 049 Bacterial and tuberculous infections of nervous system	14
DRG 052 Alteration in consciousness	14
DRG 058 Other disorders of nervous system	14
MDC 4 Diseases and disorders of the respiratory system	15
DRG 144 Respiratory signs, symptoms and miscellaneous diagnoses	15
DRG 145 Acute bronchitis and related symptoms	15
MDC 5 Diseases and disorders of the circulatory system	16
DRG 161 Implantable heart assist systems	16
DRG 167 Other cardiothoracic and thoracic circulatory procedures	16
DRG 169 Major abdominal vascular procedures	17
DRG 174 Percutaneous cardiac intervention with AMI	19
DRG 175 Percutaneous cardiac intervention without AMI	19
DRG 178 External heart assist devices	19
DRG 180 Other circulatory system procedures	20
DRG 181 Lower extremity vascular procedures	22
DRG 182 Other peripheral vascular and related procedures	22
DRG 183 Percutaneous structural cardiac procedures	23
DRG 197 Peripheral and other vascular disorders	23
MDC 6 Diseases and disorders of the digestive system	24
DRG 222 Other stomach, esophageal and duodenal procedures	24
MDC 8 Diseases and disorders of the musculoskeletal system and connective tissue	24
DRG 299 Multiple level combined anterior and posterior spinal fusion except cervical	24
DRG 300 Single level combined anterior and posterior spinal fusion except cervical	25
DRG 312 Skin graft for musculoskeletal and connective tissue diagnoses	25
DRG 316 Hand and wrist procedures	25
DRG 317 Tendon, muscle and other soft tissue procedures	25
DRG 320 Other musculoskeletal system and connective tissue procedures	26

DRG 349 Malfunction, reaction, complication of orthopedic device or procedure	26
MDC 9 Diseases and disorders of the skin, subcutaneous tissue and breast	27
DRG 364 Other skin, subcutaneous tissue and related procedures	27
MDC 10 Endocrine, nutritional, metabolic and genetic diseases and disorders	27
DRG 403 Procedures for obesity	27
DRG 404 Thyroid, parathyroid and thyroglossal procedures	28
DRG 405 Other procedures for endocrine, nutritional and metabolic disorders	28
DRG 428 Genetic disorders	28
MDC 11 Diseases and disorders of the kidney and urinary tract	30
DRG 446 Malfunction, reaction, complication of genitourinary device or procedure	30
DRG 447 Other kidney, urinary tract and related non-percutaneous procedures	31
DRG 448 Other kidney, urinary tract and related percutaneous procedures	31
DRG 466 Malfunction, reaction, complication of genitourinary device or procedure	31
MDC 12 Diseases and disorders of the male reproductive system	32
DRG 480 Major male pelvic procedures	32
DRG 484 Other male reproductive system and related procedures	33
DRG 485 Prostatectomy procedures	34
DRG 501 Male reproductive system diagnoses except malignancy	34
MDC 13 Diseases and disorders of the female reproductive system	35
DRG 510 Pelvic evisceration, radical hysterectomy and other radical gynecological procedures	35
DRG 520 Other GYN procedures for malignancy	35
MDC 18 Infectious and parasitic diseases, systemic or unspecified sites	36
DRG 711 Post-operative, post-trauma, other device infections with O.R. procedure	36
MDC 19 Mental diseases and disorders	37
DRG 750 Schizophrenia and other severe psychotic disorders	38
DRG 751 Depressive disorders	38
DRG 752 Personality disorders	39
DRG 753 Bipolar disorders	39
DRG 754 Depression except major depressive disorder	40
DRG 755 Adjustment Disorders	40
DRG 756 Acute anxiety and stress syndromes	42
DRG 757 Organic mental health conditions and disturbances	43
DRG 758 Disorders of impulse control & development	44
DRG 759 Eating disorders	45
DRG 760 Other mental health conditions and disorders	45
DRG 761 Schizoaffective disorders	48
DRG 762 Obsessive compulsive disorders	48
MDC 23 Rehabilitation, aftercare, other factors influencing health status and other health service contacts	49
DRG 861 Signs, symptoms, and other factors influencing health status	49
DRG 862 Other aftercare and convalescence	49
DRG 863 Neonatal aftercare	49
SOI/ROM Changes	49
Step 2	50
Step 3	53
Step 4	53
Step 5	53

Step 6	54
Step 7	54
Step 9	54
Step 9 SOI removals	54
Step 9 SOI and ROM changes	55
Step 10	55
Step 11a	56
Step 11a ROM adds	56
Step 11a SOI removals	56
Step 11b	57
Step 11b SOI adds	57
Step 11b SOI changes	57
Step 11b ROM changes	58
Step 13	58
Step 14	58
Step 17	59
Pre-existing condition diagnosis	59
O.R. to Non-O.R.	59
Non-O.R. to O.R.	60
Diagnosis category updates	60
Service lines	60
ICU severity indicators	60
Relative weights and trims	60
Impact analysis	61
Redistribution analysis	61
R2 analysis	62
CMI impact analysis	62
APR DRG v41.0 redistribution to v42.0	63
Appendices	63
Appendix A: New diagnosis codes	63
Appendix B: Deleted diagnosis codes	64
Appendix C: Revised diagnosis descriptions	65
Appendix D: New procedure codes	66
Appendix E: Deleted procedure codes	66
Appendix F: DRG 058 Other disorders of nervous system	70
Appendix G: DRG 167 Other cardiothoracic and thoracic vascular procedures	71
Appendix H: DRG 167 Other cardiothoracic and thoracic vascular procedures	74
Appendix I: DRG 169 Major abdominal vascular procedures	76
Appendix J: DRG 175 Percutaneous cardiac intervention without AMI	82
Appendix K: DRG 180 Other circulatory system procedures	83
Appendix L: DRG 181 Lower extremity vascular procedures	83
Appendix M: DRG 182 Other peripheral vascular and related procedures	93
Appendix N: DRG 182 Other peripheral vascular and related procedures	93
Appendix O: DRG 183 Percutaneous structural cardiac procedures	93
Appendix P: DRG 316 Hand and wrist procedures	94
Appendix Q: DRG 349 Malfunction, reaction, complication of orthopedic device or procedure	97
Appendix R: DRG 403 Procedures for obesity	103
Appendix S: DRG 447 Other kidney, urinary tract and related non-percutaneous procedures	105

Appendix T: DRG 448 Other kidney, urinary tract and related percutaneous procedures	114
Appendix U: DRG 466 Malfunction, reaction, complication of genitourinary device or procedure	123
Appendix V: DRG 480 Major male pelvic procedures	124
Appendix W: DRG 484 Other male reproductive system and related procedures	125
Appendix X: DRG 750 Schizophrenia and other severe psychotic disorders	126
Appendix Y: DRG 760 Other mental health conditions and disorders	127
Appendix Z: DRG 862 Other aftercare and convalescence	128
Appendix AA: DRG 863 Neonatal aftercare	134
Appendix BB: Step 2 SOI and ROM adds	140
Appendix CC: Step 2 SOI changes	140
Appendix DD: Step 2 ROM changes	140
Appendix EE: Step 3 SOI and ROM adds	140
Appendix FF: Step 3 SOI and ROM removes	141
Appendix GG: Step 3 SOI and ROM changes	141
Appendix HH: Step 5 SOI and ROM adds	141
Appendix II: Step 5 SOI and ROM removes	141
Appendix JJ: Step 5 SOI and ROM changes	141
Appendix KK: Step 6 ROM removes – Step no longer valid for v42.0	141
Appendix LL: Step 7 new groups	149
Appendix MM: Step 7 SOI and ROM adds	155
Appendix NN: Step 7 SOI and ROM removes	156
Appendix OO: Step 9 SOI and ROM adds	156
Appendix PP: Step 9 ROM removes	156
Appendix QQ: Step 10 SOI adds	158
Appendix RR: Step 10 ROM adds	158
Appendix SS: Step 10 ROM changes	172
Appendix TT: Step 10 ROM removes	212
Appendix UU: Step 11a SOI adds	212
Appendix VV: Step 11a ROM removes	214
Appendix WW: Step 11b ROM adds	215
Appendix XX: Step 11b SOI and ROM removes	218
Appendix YY: Step 13 SOI and ROM adds	218
Appendix ZZ: Step 14 SOI and ROM adds	218
Appendix AAA: Step 17 SOI and ROM adds	220
Appendix BBB: Step 17 SOI and ROM changes	220
Appendix CCC: Step 17 SOI removes	220
Appendix DDD: Redistribution report	229
Appendix EEE: DRG 520 Other GYN procedures for malignancy	229
Appendix FFF: DRG 520 Other GYN procedures for malignancy	231
Appendix GGG: DRG 299 Multiple level combined anterior and posterior spinal fusion except cervical	231
Appendix HHH: DRG 300 Single level combined anterior and posterior spinal fusion except cervical	231

3M™ APR DRG Summary of Changes

This document lists modifications made to v42.0 of the 3M™ All Patient Refined Diagnosis Related Groups (APR DRG) classification system. Each year, Solventum revises the APR DRG grouping logic for two reasons:

- To accommodate changes in code sets used by the hospital industry, most importantly the International Classification of Diseases, Version 10, Clinical Modification (ICD-10-CM) and the International Classification of Diseases, Version 10, Procedure Coding System (ICD-10-PCS). The U.S. Department of Health and Human Services updates the ICD-10-CM and ICD-10-PCS code sets effective October 1 of each year.
- Solventum continually performs research to enhance the clinical precision of the APR DRG logic, that is, how each inpatient is assigned to a single base APR DRG, severity of illness (SOI), and risk of mortality (ROM) based on diagnoses, major procedures, and other clinical data.

Table 1. Comparison of ICD-10-CM diagnosis codes

	Effective 10/01/2023	Effective 10/01/2024
Total ICD-10-CM	74,044	74,260
Number of new diagnosis codes	395	252
Number of deleted diagnosis codes	25	36
Number of revised diagnosis codes	13	13

Table 2. Comparison of ICD-10-PCS procedure codes

	Effective 10/01/2023	Effective 10/01/2024 (includes 04/01/2024 changes)
Total ICD-10-PCS	78,603	78,948
Number of new procedure codes	78	412
Number of deleted procedure codes	5	67
Number of revised procedure codes	14	3

Table 3. Comparison of APR DRG v41.0 and v42.0

	v41.0 Effective 10/01/2023	v42.0 Effective 10/01/2024
Number of base APR DRGs	336	341
New base APR DRGs	1	8
Deleted base APR DRGs	0	3
Revised base APR DRG titles	2	13
Severity of illness levels per base APR DRG	4	4
Risk of mortality levels per base APR DRG	4	4
Error APR DRGs	2	2
Total APR DRGs	1,344	1,364
Total Major Diagnostic Categories (MDCs)	25	25
Number of procedures changing status from OR to non-OR	0	0
Number of procedures changing status from non-OR to OR	0	1

Regarding updating of clinical logic, changes have been made to improve the precision of the grouping logic, considering customer recommendations, with refinement based upon coding specificity within ICD-10-CM and ICD-10-PCS, and continual changes in practice.

Almost all DRGs can be aggregated into 25 Major Diagnostic Categories (MDCs), such as Diseases and Disorders of the Respiratory System. In addition, nine base DRGs are considered "pre-MDC" while three base DRGs (DRGs 950-952 Procedures unrelated to principal diagnosis) and two error DRGs are not assigned to an MDC.

As summarized in table 3, highlights of the changes in the clinical logic are listed below in bullets. More detailed information about changes in base APR DRGs, severity of illness (SOI) and risk of mortality (ROM) is provided later in this document.

APR DRG v42.0 will be accompanied by updates of the Methodology Overview, the Definitions Manual, this Summary of Changes document, and the Weights and Trims with Code Descriptions spreadsheet.

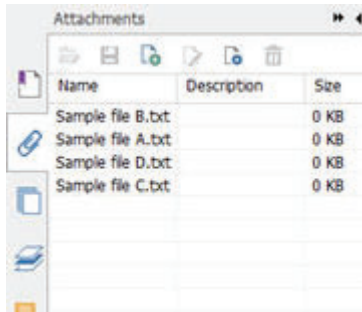
Accessing files attached to this document

This document has file attachments. How you access these file attachments depends on how your system is configured to open PDFs.

If you typically open PDFs using PDF viewer software

1. Download a copy of this document to your local system.
2. Double-click the downloaded file to open it.

- Click the paper clip icon on the left side of the PDF software window to see a list of file attachments, as shown in the following example.

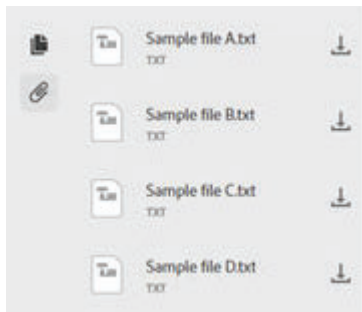


- Double-click a file attachment to open it for viewing.

If your PDFs typically open in a browser window

Important! Your browser must have a PDF viewer plug-in installed to use this option. Plug-ins work differently depending on the browser you are using and may not exactly match this procedure.

- Open this document in a browser window.
- Click the paper clip icon on the left or right side of the browser window to see a list of file attachments, as shown in the following example.



If you don't see a paper clip icon you may need to install a PDF viewer plug-in for your browser or follow the steps in the first procedure to download the PDF to your system. Contact your IT department if you need assistance.

- Click on a file attachment to download it for local viewing.

Discharge status changes

There are no new, deleted, or revised discharge statuses.

Diagnosis and procedure code changes

New diagnosis codes effective 10/01/2024

For a list of new diagnosis codes and their DRG assignments, see [Appendix A \(page 63\)](#).

Deleted diagnosis codes effective 10/01/2024

For a list of deleted diagnosis codes, see [Appendix B \(page 64\)](#).

Revised diagnosis code descriptions effective 10/01/2024

For a list of long and short description changes, see [Appendix C \(page 65\)](#).

New procedure codes effective 10/01/2024

For a list of new procedure codes, see [Appendix D \(page 66\)](#).

Deleted procedure codes effective 10/01/2024

For a list of deleted procedure codes, see [Appendix E \(page 66\)](#).

Revised procedure code descriptions effective 10/01/2024

There are no revised procedure code descriptions.

DRG and MDC changes

For APR DRG v42.0, there was one MDC description revised, 8 new APR DRGs added, 3 deleted APR DRGs, and 13 revised APR DRG descriptions.

MDC description revision

There is one MDC with a revised description.

MDC	Previous Description	New Description
10	Endocrine, nutritional and metabolic diseases and disorders	Endocrine, nutritional, metabolic and genetic diseases and disorders

MDCs with surgical hierarchy restructuring

There are two MDCs with surgical hierarchy restructuring.

New Surgical DRG Order	
MDC 12 Diseases and disorders of the male reproductive system	
DRG	Description
485	Prostatectomy procedures
483	Penis, testes and scrotal procedures
482	Transurethral prostatectomy
484	Other male reproductive system and related procedures

New Surgical DRG Order	
MDC 13 Diseases and disorders of the female reproductive system	
DRG	Description
520	Other GYN procedures for malignancy
511	Uterine and adnexa procedures for ovarian and adnexal malignancy
512	Uterine and adnexa procedures for non-ovarian and non-adnexal malignancy
513	Uterine and adnexa procedures for non-malignancy except leiomyoma
514	Female reproductive system reconstructive procedures
519	Uterine and adnexa procedures for leiomyoma
517	Dilation and curettage for non-obstetric diagnoses
518	Other female reproductive system and related procedures

New DRGs

Eight new DRGs were created:

- One new DRG was created in MDCs 10, 11, 12, and 13.
- Two new DRGs were created in MDCs 8 and 19.

Type	MDC	DRG	DRG Description
Surgical	8	299	Multiple level combined anterior and posterior spinal fusion except cervical
Surgical	8	300	Single level combined anterior and posterior spinal fusion except cervical
Surgical	11	448	Other kidney, urinary tract and related percutaneous procedures
Surgical	12	485	Prostatectomy procedures

Type	MDC	DRG	DRG Description
Surgical	13	520	Other GYN procedures for malignancy
Medical	10	428	Genetic disorders
Medical	19	761	Schizoaffective disorders
Medical	19	762	Obsessive compulsive disorders

Deleted DRGs

Three DRGs have been deleted:

- One DRG was deleted from MDCs 12, 13, and 19.

Type	MDC	DRG	DRG Description
Surgical	13	510	Pelvic evisceration, radical hysterectomy and other radical gynecological procedures
Surgical	12	480	Major male pelvic procedures
Medical	19	754	Depression except major depressive disorder

Revised DRG titles

There are 13 DRGs with description changes:

- One DRG description was changed in MDCs 8 and 11.
- Three DRG descriptions were changed in MDC 5.
- Eight DRG descriptions were changed in MDC 19.

DRG	MDC	Previous Description	Revised Description
167	5	Other cardiothoracic and thoracic circulatory procedures	Other cardiothoracic and thoracic vascular procedures
178	5	External heart assist systems	External heart assist devices
181	5	Lower extremity arterial procedures	Lower extremity vascular procedures
312	8	Skin graft, except hand, for musculoskeletal and connective tissue diagnoses	Skin graft for musculoskeletal and connective tissue diagnoses
447	11	Other kidney, urinary tract and related procedures	Other kidney, urinary tract and related non- percutaneous procedures
750	19	Schizophrenia	Schizophrenia and other severe psychotic disorders

DRG	MDC	Previous Description	Revised Description
751	19	Major depressive disorders and other or unspecified psychoses	Depressive disorders
752	19	Disorders of personality and impulse control	Personality disorders
755	19	Adjustment disorders and neuroses except depressive diagnoses	Adjustment disorders
756	19	Acute anxiety and delirium states	Acute anxiety and stress syndromes
757	19	Organic mental health disturbances	Organic mental health conditions and disturbances
758	19	Behavioral disorders	Disorders of impulse control & development
760	19	Other mental health disorders	Other mental health conditions and disorders

MDC 1 Diseases and disorders of the nervous system

DRG 043 Multiple sclerosis, other demyelinating disease and inflammatory neuropathies

For clinical accuracy, one Guillain-Barre syndrome diagnosis was deleted from DRG 49 Bacterial and tuberculous infections of nervous system and added to DRG 43 Multiple sclerosis, other demyelinating disease and inflammatory neuropathies for clinical consistency as it was not specific to an infection of the nervous system.

The following diagnosis code was added to DRG 043 Multiple sclerosis, other demyelinating disease and inflammatory neuropathies:

Code	Description
G610	Guillain-Barre syndrome

All of the cases in DRG 43 in APR DRG v41.0 remain in DRG 43 in APR DRG v42.0. In addition, there are cases from DRG 49 Bacterial and tuberculous infections of nervous system in APR DRG v41.0 reassigned to DRG 43 representing 22.6% of the cases of DRG 43 in APR DRG v42.0.

DRG 046 Nonspecific CVA and precerebral occlusion without infarction

To improve clinical precision, one dissection of the cerebral arteries, nonruptured diagnosis was deleted from MDC 05 DRG 197 Peripheral and vascular disorders and added to MDC 01 DRG 046 Nonspecific CVA and precerebral occlusion without infarction as it was more consistent with similar cerebral artery encounters.

The following diagnosis code was added to DRG 046 Nonspecific CVA and precerebral occlusion without infarction: