3M™ Enhanced Ambulatory Patient Grouping (EAPG) System

Summary of Changes

Version 3.17 January 1, 2022

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Summary of changes for 3M™ Enhanced Ambulatory Patient Grouping (EAPG) System

For licensees of the 3M™ Enhanced Ambulatory Patient Grouping (EAPG) System, this document identifies changes for v3.17, effective January 1, 2022.

The EAPG grouper vEAPG v3.17 contains versions 3.11 through 3.17; seven years' worth of grouper versions are retained (2015 through 2021). Additionally, grouper version 3.10 remains in the grouper through 2022 for historical claims processing. However, code set updates are not included. Effective January 1, 2023, v3.10 will be removed from the component.

Each year, 3M revises the EAPG patient classification logic for two reasons:

1. To accommodate changes in health care code sets, most importantly the International Classification of Diseases, Version 10, Clinical Modification (ICD-10-CM), the Current Procedural Terminology (CPT®), and the Healthcare Common Procedure Coding System (HCPCS). The U.S. Department of Health and Human Services (DHHS) usually does an annual update to the ICD-10-CM code set each October 1. The American Medical Association makes its major update to the CPT code set each January 1 and makes some additional updates quarterly. DHHS updates the HCPCS code set quarterly. 3M releases quarterly updates of the EAPG grouper to reflect code set updates made during the year.
2. 3M continually performs research to enhance the clinical precision of the EAPG logic, that is, how patients are classified into one or more EAPGs per ambulatory care visit. These enhancements are implemented each year with the January 1 release.

As shown in Table 1, between October 1, 2020, and January 1, 2022, there is a net increase of 132 ICD-10-CM diagnosis codes, or 0.18%. Table 2 shows a net increase of 350 CPT®/HCPCS codes or 1.95%.

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

	Effective 10/01/2020	Effective 01/01/2022
Total ICD-10-CM diagnosis codes	72,616	72,748
Number of new diagnosis codes	488	159
Number of deleted diagnosis codes	58	32
Number of revised diagnosis codes	47	22
Note: The rows for total, new, deleted, and revised compare the October 2020 to January 2022 counts.		

Table 2. Updates to CPT® and HCPCS procedure codes

	Effective 01/01/2021	Effective 01/01/2022
Total CPT®/HCPCS codes	17,586	17,936
Number of new CPT procedure codes	164	150
Number of deleted CPT procedure codes	47	58
Number of new HCPCS procedure codes	178	172
Number of deleted HCPCS procedure codes	119	54
Note: Totals for CPT and HCPCS codes include the April, July, and October 2021, and approximate counts for January 2022 code updates. The rows for total, new, deleted and revised compare the January 2021 to approximate January 2022 counts.		

In addition to changes to reflect modifications in the national diagnosis and procedure code sets, 3M is making several enhancements to the clinical logic. In updating the clinical logic, changes have been made to improve the precision of the clinical logic by considering customer recommendations, shifts in coding, changes in practice, and economic cost shifts.

As coding systems are revised, and new technology and advances in medicine occur, the need for new EAPG groups, as well as code assignment changes to EAPG groups, are reviewed and evaluated each year. New EAPG groups may be added, and obsolete groups may be deleted. Modifications occur due to code assignment changes, and groups are reviewed for clinical homogeneity across current industry trends, claim reporting frequency and reimbursement. A comparison table of the EAPG changes between v3.16 and v3.17 is provided in Table 3.

Table 3. Comparison of EAPG v3.16 and v3.17

	v3.16 effective 01/01/2021	v3.17 effective 01/01/2022
Number of EAPGs	648	657
Number of new EAPGs	59	15
Number of deleted EAPGs	14	6
Number of revised EAPG titles	41	21
Number of EAPG types	13	13
Number of EAPG categories	61	61
Number of hospital service lines	50	50

Highlights of the changes made to the EAPG grouper field and logic changes are listed below. More detailed information about clinical changes made to EAPGs is provided later in this document.

EAPG grouper field and logic changes

New input fields

None

New output fields

None

Removal of ICD-9-CM diagnosis code content

The ICD-9-CM diagnosis code content will be removed from the January EAPG grouper. Related documentation and fields associated with grouping, logic, and options will be updated to reflect this change. This impacts several fields:

- Input fields: Code Type Indicator*, Diagnosis code fields (*Note: the Code Type Indicator field remains in the software, but is deactivated)
- Output fields: Medical Visit diagnosis, Pointed Diagnosis code, Linked Diagnosis code
- Option related fields: Linked Diagnosis, Conditional EAPG/Dx Required and Conditional EAPG/Dx Required Range, Secondary Dx Present,

New user options

- **Mid-quarter Effective Date Option:** A mid-quarter effective date is an effective date that may be published by an agency such as the AMA or CMS, indicating that the effective coverage or termination of a CPT® or HCPCS code may occur with a mid-quarter date that is between quarter boundary start dates. A new option is implemented with an enable/disable switch to indicate if the user chooses to recognize mid-quarter dates. If the option is enabled and a HCPCS is reported outside of the defined mid-quarter date(s), then an error EAPG (999) is returned with Line-Item Unassigned Flag 24. By default, the option is enabled, and the internal grouper table will be pre-populated with mid-quarter dates recognized by the AMA and CMS from over the past several years.
- **User Customizable HCPCS Coverage Dates List Option:** An alternative option for end-users to create their own list of CPT or HCPCS codes with policy-defined coverage dates (effective and termination dates). If a HCPCS is reported outside of the defined coverage dates, an error EAPG (999) is returned with Line-Item Unassigned Flag 24. To use the new list option, the mid-quarter effective date flag option mentioned previously must be enabled to process user-defined dates prior to, or, in superseding, pre-defined mid-quarter dates from the internal grouper table.

Revised user options

- **User Customizable Inpatient Only Procedure List option:** With the release of version 3.17, all procedures previously defined as “inpatient only” have been assigned to payable EAPG groups. The previous option “Inpatient Only Procedure Adds” will be redefined as a user customizable list upon which users may add significant procedure type (types 2, 21-25) CPT/HCPCS and/or EAPGs which the user chooses to continue to define as inpatient only. If

the list is populated with HCPCS and/or EAPGs, EAPG 993 (User-Defined Inpatient Only Procedure) continues to be returned, with Line-Item Unassigned Flag 2 (Inpatient procedure). Note that if the end-user attempts to add a HCPCS or EAPG that is not of significant type (2, 21-25), the line returns error EAPG 999 with Line-Item Unassigned Flag 26.

- **User Customizable Alternate Payment List option:** EAPG 994 has historically been included as an option for end-users to designate inpatient only procedures for an alternate payment method. With the removal of all procedures from the EAPG inpatient only list, this option has been updated to permit users to add any CPT/HCPCS or EAPGs (of any EAPG type) to be designated for an "alternate payment" method. If the list is populated, EAPG 994 (User-Defined Alternate Payment Method Procedure) is returned with new Line-Item Unassigned Flag 25.

Revised output fields

Three additional values for the Line-Item Unassigned Flag (LIUF) are implemented:

- 24 - HCPCS code reported is prior to or after policy coverage dates
- 25 - Procedure for Alternate Payment (EAPG 994)
- 26 - HCPCS or EAPG not significant procedure type cannot be added to user-defined inpatient only list

Additional logic changes

- **Updated the qualifying diagnosis requirement for Behavioral Health/Substance Abuse Per Diem EAPG assignment:** The logic is revised to look for a qualifying diagnosis in any diagnosis field (pdx, sdx, rvdx) where previously, the qualifying diagnosis was required to be in the pdx field.
- **Updated logic for the telehealth flag assignment:** The logic is updated to add flexibility for how telehealth services are recognized. The revised logic permits any service (HCPCS) reported with a telehealth modifier (95, GQ, GT, G0) or place of service indicating telehealth (2, or new value 10, effective 1/1/2022), to be identified with the telehealth services flag on the line output. This revised logic is in addition to recognizing telehealth services populated on the internal tables of the grouper for reportable and inherent telehealth.

Clinical logic changes

- Completed the removal of inpatient only procedures to be assigned to payable EAPGs which required the creation of six new EAPGs.
- Updates to drugs, laboratory, and pathology groups to account for cost, complexity, and current fee schedule trends. In particular, EAPG groups are created for drug screening tests, and an additional lab EAPG is added for advanced laboratory tests with high cost.
- Refinements were made to the following categories of EAPGs for improved clinical precision and to reflect currently observed outpatient claims reporting practices. The following list represents some of the more significant changes:
    - Breast surgery procedure groups

  - Dental and Oral surgery procedure groups
  - ENT surgery procedure groups
- Nine significant procedure EAPG groups had a type change, three of which were changed to ancillary type.
- Fifteen EAPG groups were added to the standard, default packaging list.
- Ninety-eight EAPGs had changes made to the clinical consolidation algorithm to improve the efficiency of outpatient grouping, based on observations in current outpatient claims data for claims with multiple significant procedures present.

The net effect of these changes is a more clinically precise and accurate assignment of EAPG groups aligned with current clinical practice, costs, and trends. Details describing these clinical changes may be found in subsequent sections of this document.

EAPG changes

For EAPG 3.17, there are 15 new EAPGs, six deleted EAPGs, and 21 revised EAPG descriptions. Note that any references to outpatient claims data set in the details substantiating changes in assignment of codes or the development of new EAPGs is associated with the review of source claims from the CMS OPPS CY 2020 data set, which contains a total of 90 million claims. For additional details related to the claims data set and usage for creation of relative weights, please see the Relative Weights section of this document (page 55).

Table 4. New EAPGs

EAPG	EAPG Description	EAPG Type
175	LEVEL III BLADDER AND URETERAL PROCEDURES	2
768	ANTEPARTUM ENCOUNTERS FOR NON-ROUTINE AND ABNORMAL FINDINGS	3
2008	INCIDENTAL INTRAOPERATIVE PROCEDURES	5
2040	LEVEL I DRUG SCREENING AND DEFINITIVE TESTS	4
2041	LEVEL II DRUG SCREENING AND DEFINITIVE TESTS	4
2042	LEVEL III DRUG SCREENING AND DEFINITIVE TESTS	4
2043	LEVEL III BLOOD AND TISSUE TYPING TESTS	4
2044	LEVEL IV COMPLEX LABORATORY, MOLECULAR PATHOLOGY AND GENETIC TESTS	4
2045	ADVANCED MOLECULAR PATHOLOGY AND GENETIC TESTS	4
3011	BONE CONDUCTION HEARING DEVICE IMPLANTATION	2
3030	SPINAL IMPLANTATION OF DRUG INFUSION DEVICE	2

EAPG	EAPG Description	EAPG Type
3051	HEART AND/OR LUNG TRANSPLANT	2
3052	KIDNEY TRANSPLANT	2
3060	VENTRICULAR ASSIST DEVICE PROCEDURES	2
3070	EXTRACORPOREAL MEMBRANE OXYGENATION (ECMO) PROCEDURES	2

Table 5. Deleted EAPGs

EAPG	EAPG Description
334	LEVEL I DEVICE PLACEMENT FOR RADIATION THERAPY
338	LEVEL II DEVICE PLACEMENT FOR RADIATION THERAPY
339	LEVEL III DEVICE PLACEMENT FOR RADIATION THERAPY
370	LEVEL IV ORAL AND MAXILLOFACIAL PROCEDURES
421	TUBE REPLACEMENT
510	MAJOR SIGNS, SYMPTOMS AND FINDINGS

Table 6. Revised EAPGs

EAPG	EAPG Description
20	BREAST BIOPSIES, EXCISIONS, AND OTHER RELATED PROCEDURES
21	LEVEL I MASTECTOMY AND RECONSTRUCTIVE BREAST PROCEDURES
22	LEVEL II MASTECTOMY AND RECONSTRUCTIVE BREAST PROCEDURES
119	CAR T-CELL IMMUNOTHERAPY PREPARATION SERVICES
120	CAR T-CELL IMMUNOTHERAPY
130	MINOR GASTROINTESTINAL PROCEDURES INCLUDING TUBE INSERTION OR PLACEMENT
213	NERVE AND MUSCLE TESTS
226	SLEEP STUDIES UNATTENDED
230	MINOR OPHTHALMOLOGICAL PROCEDURES AND DIAGNOSTIC SERVICES
249	MINOR EAR, NOSE, MOUTH AND THROAT PROCEDURES
288	LEVEL I DIAGNOSTIC ULTRASOUND
291	BONE DENSITY AND RELATED PROCEDURES

EAPG	EAPG Description
308	LEVEL III PATHOLOGY TESTS
335	CLASS I BRACHYTHERAPY SOURCES
336	CLASS II BRACHYTHERAPY SOURCES
337	CLASS III BRACHYTHERAPY SOURCES
367	LEVEL I ORAL SURGERY PROCEDURES
368	LEVEL II ORAL SURGERY PROCEDURES
369	LEVEL III ORAL SURGERY PROCEDURES
384	LEVEL III CHEMISTRY TESTS
385	LEVEL I COMPLEX LABORATORY, MOLECULAR PATHOLOGY AND GENETIC TESTS
386	LEVEL II COMPLEX LABORATORY, MOLECULAR PATHOLOGY AND GENETIC TESTS
387	LEVEL III COMPLEX LABORATORY, MOLECULAR PATHOLOGY AND GENETIC TESTS
417	MINOR FEMALE REPRODUCTIVE PROCEDURES
420	ELECTRONIC ANALYSIS FOR CARDIAC, NEUROLOGICAL AND OTHER DEVICES
2061	CLASS I BLOOD PRODUCTS
2062	CLASS II BLOOD PRODUCTS
765	OTHER ANTEPARTUM COMPLICATION DIAGNOSES
658	SCIATICA AND LOW BACK PAIN
993	USER-DEFINED INPATIENT ONLY PROCEDURES
994	USER-DEFINED ALTERNATE PAYMENT METHOD PROCEDURES

EAPG category changes

Due to a clinical review of either the new or existing EAPG groups, one new EAPG Category is being added, one EAPG Category is deleted, and two EAPG Categories have a revised description to improve classification to the type of services assigned in each respective EAPG group.

Table 7. New EAPG categories

EAPG Category	EAPG Category Description
34	DME, Ambulance Services and Medical Supplies

Table 8. Deleted EAPG categories

EAPG Category	EAPG Category Description
51	Major signs, symptoms and findings

Table 9. Revised EAPG categories

EAPG Category	EAPG Category Description
77	Preventative Medicine and Related Services
19	Dental and Oral Surgery Procedures

Table 10. EAPG groups with new EAPG Category 34 assignment

EAPG	EAPG Description	EAPG v3.17 Category	EAPG v3.16 Category
452	DIABETES SUPPLIES	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
453	MOTORIZED WHEELCHAIR	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
454	TPN FORMULAE	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
455	IMPLANTED TISSUE OF ANY TYPE	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
456	MOTORIZED WHEELCHAIR ACCESSORIES	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
498	PEN FORMULAE	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1001	DURABLE MEDICAL EQUIPMENT AND SUPPLIES - LEVEL 1	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1002	DURABLE MEDICAL EQUIPMENT AND SUPPLIES - LEVEL 2	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures

EAPG	EAPG Description	EAPG v3.17 Category	EAPG v3.16 Category
1003	DURABLE MEDICAL EQUIPMENT AND SUPPLIES - LEVEL 3	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1004	DURABLE MEDICAL EQUIPMENT - LEVEL 4	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1005	DURABLE MEDICAL EQUIPMENT - LEVEL 5	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1006	DURABLE MEDICAL EQUIPMENT - LEVEL 6	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1007	DURABLE MEDICAL EQUIPMENT - LEVEL 7	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1008	DURABLE MEDICAL EQUIPMENT - LEVEL 8	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1009	DURABLE MEDICAL EQUIPMENT - LEVEL 9	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1010	DURABLE MEDICAL EQUIPMENT - LEVEL 10	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1011	DURABLE MEDICAL EQUIPMENT - LEVEL 11	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1012	DURABLE MEDICAL EQUIPMENT - LEVEL 12	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1013	DURABLE MEDICAL EQUIPMENT - LEVEL 13	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1014	DURABLE MEDICAL EQUIPMENT - LEVEL 14	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1015	DURABLE MEDICAL EQUIPMENT - LEVEL 15	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures

EAPG	EAPG Description	EAPG v3.17 Category	EAPG v3.16 Category
1016	DURABLE MEDICAL EQUIPMENT - LEVEL 16	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1017	DURABLE MEDICAL EQUIPMENT - LEVEL 17	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1018	DURABLE MEDICAL EQUIPMENT - LEVEL 18	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1019	DURABLE MEDICAL EQUIPMENT - LEVEL 19	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1020	DURABLE MEDICAL EQUIPMENT - LEVEL 20	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1021	DURABLE MEDICAL EQUIPMENT - OXYGEN AND RELATED EQUIPMENT	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures
1030	AMBULANCE SERVICES	34 - DME, Ambulance Services and Medical Supplies	23 – Other ancillary tests and procedures

Table 11. Current EAPG groups with changes in EAPG Category assignment for v3.17

EAPG	EAPG Description	EAPG v3.16 Category	EAPG v3.17 Category
116	ALLERGY TESTS	23 – Other ancillary tests and procedures	13 -Otolaryngologic system procedures
325	PREVENTION COUNSELING	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
413	CARDIOGRAM	23 – Other ancillary tests and procedures	5 - Cardiovascular procedures

EAPG	EAPG Description	EAPG v3.16 Category	EAPG v3.17 Category
414	LEVEL I IMMUNIZATION	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
415	LEVEL II IMMUNIZATION	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
423	VASCULAR ACCESS BY NEEDLE OR CATHETER	23 – Other ancillary tests and procedures	5 - Cardiovascular procedures
428	PATIENT EDUCATION, INDIVIDUAL	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
429	PATIENT EDUCATION, GROUP	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
458	ALLERGY THERAPY	23 – Other ancillary tests and procedures	13 - Otolaryngologic system procedures
459	VACCINE ADMINISTRATION	23 – Other ancillary tests and procedures	77 - Preventive Medicine and Related Services
485	CORNEAL TISSUE PROCESSING	23 – Other ancillary tests and procedures	12 - Ophthalmologic system procedures