Global Budget Revenue Contracts Market Shift Adjustments Draft Technical Report

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Market Shift Adjustments under Global Revenue Models Updated-5/6/2015

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This draft document, prepared in conjunction with the Payment Models Work Group, contains principles for consideration as market shift adjustments are developed and applied. It is a work in progress and may be modified as the approaches and calculations for adjustments are finalized.

1. Introduction

The Market Shift Adjustments (MSAs) mechanism is part of a much broader set of tools that links global budgets to populations and patients under the State's new All-Payer Model.

The specific purpose of MSAs is to provide a criteria for increasing or decreasing the approved regulated revenue of Maryland hospitals operating under Global Budget Revenue (GBR) rate arrangements to ensure that revenue is appropriately reallocated when shifts in patient volumes occur between hospitals as a result of efforts to achieve the Triple Aim of better care, better health, and lower costs. In fact, MSAs under global budget revenue arrangements are fundamentally different from a volume adjustment. Hospitals under a population-based payment system, such as GBR, have a fixed budget for providing services to the population in their service area. Therefore, it is imperative that MSAs reflect shifts in patient volumes independent of general volume increases in the market.

This document lays out the principles governing the development of MSA mechanisms that will be applied as part of Maryland's global budget system and provides a brief overview of the methodology.

2. Overview

MSAs should contain the following features:

- A specified population from which hospitals' market shifts will be calculated;
- A defined set of covered services of the MSA; and
- An MSA approach that is budget neutral to the maximum extent practicable and/or results in demonstrably higher quality of care.

The MSA should complement the global budget revenue incentives to eliminate marginal services that do not add value, are unnecessary or result from better community based care. Therefore, MSAs should not be applied to these appropriate reductions in utilization.

MSAs are one of the global budget tools necessary to account for changes in utilization levels and patterns. The global budget revenue agreements contain other mechanisms intended to ensure the continued provision of needed services for Maryland patients including:

- **Population/Demographic Adjustments:** Changing demographics could result in a growth in the demand for hospital services. Currently, the annual update factor adjusts revenue to capture changes in overall population. Annual hospital level population adjustments will capture changes in total population/demographics in each hospital's service area.
- Annual Update Provides Flexibility to Fund Innovation/New Services/Growth in Selected Quaternary Services: Targeted funding could be provided through the Update Process. For example, the new Holy

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Cross Germantown Hospital is partially funded from the general update process. Consideration is given to annual budget changes for quaternary services such as transplants, burns, and highly specialized cancer care for Johns Hopkins Hospital and University of Maryland Hospital Center under their global budget agreements.

- Transfers to Johns Hopkins Hospital, University of Maryland Hospital Center, and Shock Trauma
 Center: Adjustments will be made for changes in patient transfers to respective centers to ensure that resources are available to treat patients needing the specialized care provided in these settings.
- Potentially Avoidable Utilization (PAU): PAU is excluded from the MSAs and will be analyzed separately. The exclusion of PAU avoids the possibility of rewarding a hospital that increased PAU at the expense of a hospital that appropriately reduced its PAU. A PAU focused analysis, when warranted, will allow an assessment PAU reductions that are not driven by improvements in population health, such as diversion of patients to an unregulated setting, transfer of patients due to changes in referral patterns by purchasers, or a less favorable change in service delivery (eliminating or contracting service lines that have high PAU volumes) that should not be rewarded.

The basis for distinguishing between desirable and undesirable utilization changes is the Triple Aim of the new system: to improve health care outcomes, enhance patient experiences, and control costs. MSAs, together with other global budget agreement provisions and HSCRC policies, will need to focus on efforts that support the Triple Aim.

Examples of actions that help achieve the Triple Aim are those that result from:

- Providing high quality hospital care resulting in fewer hospital-acquired conditions;
- Making efforts to improve care coordination and patient discharge planning resulting in fewer rehospitalizations;
- Promoting the provision of care in the most appropriate setting, resulting in fewer initial
 hospitalizations for ambulatory care sensitive conditions and conditions that can be treated equally
 effectively in other settings at lower cost; and
- Providing services in lower cost settings without compromising patient care.

Possible examples of actions that undermine the Triple Aim and should be avoided include:

- Prompting patients with unprofitable service needs to seek care elsewhere or reducing the volume of non-profitable services below the amount needed by patients within the hospital's service area;
- Reducing capacity or service ability to the point of creating long waiting lists or delays;
- Under investing in new technology or modes of care proven to be efficient ways of improving patient health, safety or quality; and
- Reducing the total level of a hospital's medical staff or the quality of affiliated providers to the point of compromising patient care.

Similarly, the MSA together with other mechanisms and policies must distinguish between increases in utilization at any given hospital that should be recognized and those that should not be recognized. For

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example, hospitals should receive increases to their approved regulated revenue in circumstances that result in a shift of patient volumes that are beyond the hospital's control, such as the closure of a service at a particular hospital and resulting relocation of patients receiving that service to another facility, or other discrete and readily identifiable events. As long as the financial drivers of the shift are transparent and value based, hospitals should also receive a market shift adjustment if organizations such as Health Maintenance Organizations, Accountable Care Organizations or Primary Care Medical Homes direct their members to the facility to improve efficiency, cost-effectiveness and quality.

The MSA policy should not encourage shifts in volume that are not clearly relatable to improvements in the overall value of care, for example, such as marketing or acquisition strategies that merely shift the location or ownership of resources without increasing access, improving outcomes, or reducing costs in a geographic area. In February 2014, the Commission reduced the variable cost factor for volume changes from 85% to 50% for services provided outside of global budgets revenue arrangements, yet subject to the All Payer Model. Applying this lower variable cost factor to market shift adjustments will contribute to limiting incentives to increase volume through strategies that do not improve care or value.

3. **Guiding Principles**

In developing its MSA approach, the HSCRC should follow certain guiding principles. These include:

1. Provide clear incentives

- 1.1. Promote the three part aim
- 1.2. Emphasize value, recognizing that this concept will take some time to develop
- 1.3. Promote investments in care coordination
- 1.4. Encourage appropriate utilization and delivery of high quality care
- 1.5. Avoid paying twice for the same service

2. Reinforce the maintenance of services to the community.

- 2.1. Encourage competition to promote responsive provision of services
- 2.2. Competition should be based on value
- 2.3. Revenue should generally follow the patient
- 2.4. Support strategies pursued by entities such as ACOs, PCMH, and MCOs seeking to direct patients to low cost, high quality settings

3. Changes constituting market shift should be clearly defined.

- 3.1. Volume increase alone is not a market shift change.
- 3.2. Market shift should be evaluated in combination with the overall volume trend to ensure that shift has occurred, rather than volume growth
- 3.3. If one hospital has higher volume and other hospitals serving the same area do not have corresponding declines in volume, a market shift should not be awarded.
- 3.4. Increases in the global budget of one hospital should be funded fully by the decrease in other hospitals' budgets
- 3.5. Market shift changes should reflect services provided by the hospital

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- 3.6. Substantial reductions at a facility may result in a global budget reduction even if not accompanied by shift to other facilities in service area. (Investigate shift to unregulated facilities and limitations on types of procedures)
- 3.7. Closures of services or discrete and readily identifiable events should result in a global budget adjustment and a market shift adjustment as needed
- 3.8. Market shifts in Potentially Avoidable Utilization (PAU) should be evaluated separately¹

4. Market Shift Calculations

1.1. Market Shift Algorithm

Based on the principles listed above, an algorithm has been developed to calculate market shift adjustments for a specific service area (e.g. orthopedic surgery) and defined geographic location (e.g. zip code). The algorithm compares the growth in volumes at hospitals with utilization increases to the decline in volumes at hospitals with utilization decreases. Adjustments are capped at the lesser of the growth for volume gainers or the decline for volume loses. This approach disentangles market shifts from collective changes in volume in the service area and removes incentives for driving up volume in the service area.

Table 1 provides an illustration of the calculation done for zip code 21000 and General Surgery service line. Within this zip code, the total volume increase is 654 and decline is 129. Applying the lesser of the two rule, the allowed market shift is limited to 129 ECMADs and allocated to other hospitals with volume increases proportional to this hospital's volume increase in total utilization. In the end, the net impact of market shifts in each zip code and service line combination equals zero.

Table 1: Example Calculation of the Market Shift Algorithm

	Volume CY13	Volume CY14		Hospital's Proportion of Total Increase/Decline	Market Shift
	А	В	C=B-A	D=C/Subtotal C	E=D*Allowed Market Shift
Hospital A	1,000	1,500	500	76%	99
Hospital B	500	600	100	15%	20
Hospital C	50	100	50	8%	10
Hospital D	-	4	4	1%	1
Utilization Increase	1,550	2,204	654	100%	129
Hospital E	500	400	(100)	78%	(100)
Hospital F	50	25	(25)	19%	(25)

¹ There are limited circumstances where HSCRC might want to recognize a market shift in PAUs. For example, if an HMO moved all of its patients from one facility to another, there may be an appropriate shift in revenue for some level of PAU cases. Similarly, if a PCMH changed its hospital affiliation, there may be a shift in PAU volumes from one facility to another.

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Hospital G	4	-	(4)	3%	(4)
Utilization Decline	554	425	(129)	100%	(129)
Zip Total	2,104	2,629	525	-	0
Allowed Market Shift			129		

1.2. Geographic Area Definitions

Market shift is focused on movement of patients and services between Maryland hospitals. Narrowly defined geographic regions are ideal for calculating market shift as the individual hospitals serving the region are not likely to be differentially impacted by population growth or demographically driven changes in utilization rates. Calculating market shift at the statewide level, in contrast, would result in the movement of dollars to hospitals in regions experiencing population growth at the expense of other regions. Adjustments for changes in population and demographics are already addressed by annual demographic adjustments to each hospital's global budget.

In densely populated regions of the State where there is significant completion among hospitals, market share calculations are performed at the zip code level. However, zip code level calculations introduce random variation to the measurement in small geographic areas where the population density is low and health care market is concentrated. Such zip codes are aggregated to limit the impact of small cell sizes on the calculations. In particular, the following county zip codes are aggregated at a county level:

Garrett, Allegany, Washington, Carroll, Cecil, Kent, Queen Anne's, Caroline, Talbot, Dorchester, Wicomico, Somerset, Calvert, Charles, Saint Mary's, Worcester, Harford, Frederick

In calculating market shifts all hospitals will have the same geographic definitions. For example, to calculate volume changes in Garrett County all zip codes in Garrett County will be added together for each of the hospitals which had a volume in Garrett County. The calculations of volume changes will be based on zip code level analysis for the remaining of the counties that are not aggregated such as Baltimore City.

1.3. Service Line Definitions

Narrow definitions of service lines are proposed to prevent utilization growth for one component of the service line from masking a shift in patients for another service line. For instance, a service line that captures all surgical procedures might be growing at every hospital in a region due to increasing demand for orthopedic surgery and thereby mask the shift of fifty cardiac surgical procedures from one hospital to another.

Movement of cases from inpatient to outpatient settings and utilization of observation units creates a challenge in differentiating shifts from one hospital to another, or shifts from a hospital's inpatient to outpatient services. Staff has started to address this issue by including all observation cases with 24 hours or more in inpatient counts and assigning them weights that are similar to an inpatient case. Staff is planning to continue to work on combining other outpatient cases with inpatients for future year adjustments and evaluating the impact of inpatient to outpatient services on a case by case basis.

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Inpatient service lines are developed using the existing 3M methodology to group APR DRGs to specific service lines with a few modifications. The cross walk of APR DRGs to Service lines are included in APPENDIX I.

While inpatient service lines have been widely used and understood easily due to the availability of APR DRGs, outpatient service lines are more difficult to develop. Conceptually, staff uses an inpatient like logic and assigns the visits based upon the reasons for acquiring services. For example, all services provided for emergency department patients are grouped under the Emergency Department service line. APPENDIX II provides the hierarchy of outpatient service lines.

1.4. Exclusions

The following services or cases and the rationale to exclude from the market shift calculations.

- 1. Potentially Avoidable Utilization (PAU): As hospitals improve care and population health, trends in potentially avoidable utilization could reflect differential performance among hospitals rather than market shifts. In other words, one hospital may perform better than the others and reduce their PAU while another hospital serving a similar market may have an increase in their PAU. For the rate year 2016 adjustments, staff included only readmissions and prevention quality indicators (PQIs) developed by AHRQ that were measured in both inpatient and observation cases equaling or exceeding 24 hours and more. APPENDIX III and IV provide overviews of readmissions indicators and PQIs.
- Categorical exclusions: These cases represent the most specialized services received at Academic Medical Centers (AMCs) and are based upon actual trends in these hospitals under their global budgets. APPENDIX V provides the definitions of categorical cases.

1.5. Timing of Adjustments

To accommodate the HSCRC case mix data submission timelines, there will be a six month lag between the measurement period and the rate adjustments. The rate year 2016 adjustments will be based on comparing the measurement period of July 2014 - December 2014 to a base year period of July 2013 - December 2013. After this initial measurement period, a full calendar year will be used to calculate market shift adjustments. Accordingly, rate year 2017 adjustment will be based on Jan - Dec 2015 compared to Jan - Dec 2014 time periods.

1.6. Case Weights and Equivalent Case Mix Adjusted Discharges

To measure utilization, HSCRC developed equivalent case mix adjusted discharges (ECMADs) as a method to quantify inpatient and outpatient hospital volume into a single measure. A hospital's ECMAD count includes case mix adjusted inpatient discharges as well as equivalent adjusted outpatient case mix discharges, which is based on case-mix adjusted outpatient visits converted to inpatient discharges by the ratio of average inpatient visit charge per discharge to average outpatient charge per visit.

Inpatient weights are developed using the Hospital Specific Relative Value (Iterative Weights) methodology. APPENDIX VI provides the detailed steps for calculating inpatient weights. Historically, HSCRC has been modifying the 3M APR DRGs to account for differences in resource use within Rehabilitation DRG (860) and psychiatric DRGs (voluntary and involuntary). Staff evaluated the impact of these modifications and found that the differences between national APR DRGs and Maryland specific DRGs were very limited. Furthermore, staff

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expects t transition to ICD-10 will create inaccuracies in defining these modifications and 3M will improve the APR DRG classifications using more granular information from ICD-10 codes. Based on these considerations, HSCRC will use national 3M APR DRGs for all adjustments starting in the rate year 2016 adjustments.

Outpatient weights primary rely on EAPG grouping. After EAPGs weights are assigned to each CPT code in the patient records, a principal record type is assigned to differentiate types of visits into four main categories:

Principle EAPG Type A: Radiation, Chemo, & Major Infusion

Principal EAPG Type 2: Significant Procedures

Principal EAPG Type 3: Medical Visit

Principal EAPG Type 4: All Other (Ancillary, Incidental, Drug, Durable Medical Equipment, Unassigned EAPG Types.)

Once each record is grouped into four principal EAPG types, singleton weights are developed within each group and normalized. Singleton weights are used to assign the highest EAPG that in turn determines the assignment of the APG category for that record. Afterwards, these EAPGs are mapped to initial service lines using EAPG to Service line mapping (Appendix VII). Service lines used for Market shifts are determined using a hierarchy of services aiming to group the visits in accordance to the purpose of the patient visit. APPENDIX VIII provides technical documentation on outpatient weights.

5. Market Shift Revenue Calculations

HSCRC staff evaluated several options in calculating the cost associated with market shift changes calculated using the algorithm described above. Two viable alternatives emerged:

- the hospital specific average charge per ECMAD; or
- each hospital's service line specific average charge per ECMAD.

Service line specific cost calculations have an advantage of overcoming the variation in outpatient services within each service line. Inpatient DRG weights and prices have the advantage of decades of refinement, while outpatient weights are relatively new. Hospital specific charges per ECMAD have the advantage of overcoming some of the underlying variation in charge for equivalent case on the outpatient side as further refinements are made over time. The Maryland Hospital Association sent a letter to staff indicating that the hospital industry supports use of the hospital service line average charge per ECMAD. Staff has made a detailed review of the results using this approach compared to the alternative and we are satisfied with the results. Therefore, we are planning to use service line ECMAD average charges to develop the adjustments for each hospital. Consistent with initial policy implementation for the new All Payer Model, staff plans to use a 50% variable cost factor for market shift adjustments between regulated hospitals.

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APPENDIX

Technical Specifications for Market Shift Calculations for Rate Year 2016

- 1. APR DRG Version= 32
- 2. EAPG Version= 38
- 3. Readmission Logic= Readmission Reduction Program CY 2015 Logic
- 4. Prevention Quality Indicators Version= 4.5
- 5. Adjustment periods= July-Dec 2014 vs July-Dec 2013

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APPENDIX I: APR DRG Service Line Map (APR DRG version32)

APR			
DRG	DESCRIPTION	Product Category	Prodline
1	Liver transplant &/or intestinal transplant	Transplant Surgery	40
2	Heart &/or lung transplant	Transplant Surgery	40
3	Bone marrow transplant	Transplant Surgery	40
	ECMO or tracheostomy w long term mechanical ventilation w extensive		
4	procedure	Ventilator Support	45
_	Tracheostomy w long term mechanical ventilation w/o extensive		
5	procedure	Ventilator Support	45
6	Pancreas transplant	Transplant Surgery	40
20	Curriete and for the con-	Neurological	22
20	Craniotomy for trauma	Surgery Neurological	23
21	Craniotomy except for trauma	Surgery	23
	Cramotomy except for tradina	Neurological	23
22	Ventricular shunt procedures	Surgery	23
23	Spinal procedures	Spinal Surgery	37
		Neurological	
24	Extracranial vascular procedures	Surgery	23
		Neurological	
26	Other nervous system & related procedures	Surgery	23
40	Spinal disorders & injuries	Neurology	24
41	Nervous system malignancy	Oncology	26
42	Degenerative nervous system disorders exc mult sclerosis	Neurology	24
43	Multiple sclerosis & other demyelinating diseases	Neurology	24
44	Intracranial hemorrhage	Neurology	24
45	CVA & precerebral occlusion w infarct	Neurology	24
46	Nonspecific CVA & precerebral occlusion w/o infarct	Neurology	24
47	Transient ischemia	Neurology	24
48	Peripheral, cranial & autonomic nerve disorders	Neurology	24
49	Bacterial & tuberculous infections of nervous system	Infectious Disease	17
50	Non-bacterial infections of nervous system exc viral meningitis	Infectious Disease	17
51	Viral meningitis	Infectious Disease	17
52	Nontraumatic stupor & coma	Neurology	24
53	Seizure	Neurology	24
54	Migraine & other headaches	Neurology	24
55	Head trauma w coma >1 hr or hemorrhage	Neurology	24
	Brain contusion/laceration & complicated skull Fx, coma < 1 hr or no	.tearology	
56	coma	Neurology	24
57	Concussion, closed skull Fx nos, uncomplicated intracranial injury, coma <	Neurology	24

APR			
DRG	DESCRIPTION	Product Category	Prodline
	1 hr or no coma		
58	Other disorders of nervous system	Neurology	24
		Ophthalmologic	0.7
70	Orbital procedures	Surg	27
73	Eye procedures except orbit	Ophthalmologic Surg	27
80	Acute major eye infections	Ophthalmology	28
82	Eye disorders except major infections	Ophthalmology	28
89	Major cranial/facial bone procedures	ENT Surgery	8
90	Major larynx & trachea procedures	ENT Surgery	8
91	Other major head & neck procedures	ENT Surgery	8
92	Facial bone procedures except major cranial/facial bone procedures	ENT Surgery	8
93	Sinus & mastoid procedures	ENT Surgery	8
95	Cleft lip & palate repair	ENT Surgery	8
97	Tonsil & adenoid procedures	ENT Surgery	8
98	Other ear, nose, mouth & throat procedures	ENT Surgery	8
110	Ear, nose, mouth, throat, cranial/facial malignancies	Oncology	26
111	Vertigo & other labyrinth disorders	Otolaryngology	32
113	-	Otolaryngology	32
114	Infections of upper respiratory tract Dental & oral diseases & injuries	Dental	32
	-		32
115	Other ear, nose, mouth,throat & cranial/facial diagnoses	Otolaryngology Thomasia Surgary	
120	Major respiratory & chest procedures	Thoracic Surgery	39
121	Other respiratory & chest procedures	Thoracic Surgery	39
130	Respiratory system diagnosis w ventilator support 96+ hours	Pulmonary	34
131	Cystic fibrosis - pulmonary disease	Pulmonary	34
132	BPD & oth chronic respiratory diseases arising in perinatal period	Pulmonary	34
133	Pulmonary edema & respiratory failure	Pulmonary	34
134	Pulmonary embolism	Pulmonary	34
135	Major chest & respiratory trauma	Trauma	41
136	Respiratory malignancy	Oncology	26
137	Major respiratory infections & inflammations	Pulmonary	34
138	Bronchiolitis & RSV pneumonia	Pulmonary	34
139	Other pneumonia	Pulmonary	34
140	Chronic obstructive pulmonary disease	Pulmonary	34
141	Asthma	Pulmonary	34
142	Interstitial lung disease	Pulmonary	34
143	Other respiratory diagnoses except signs, symptoms & minor diagnoses	Pulmonary	34
144	Respiratory signs, symptoms & minor diagnoses	Pulmonary	34

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APR	Spaatea 5/ 5/ 2015		
DRG	DESCRIPTION	Product Category	Prodline
200	Cardiac structural & valvular disorders	Cardiology	1
201	Cardiac arrhythmia & conduction disorders	Cardiology	1
203	Chest pain	Cardiology	1
204	Syncope & collapse	Cardiology	1
205	Cardiomyopathy	Cardiology	1
206	Malfunction, reaction, complication of cardiac/vasc device or procedure	Cardiology	1
207	Other circulatory system diagnoses	Cardiology	1
220	Major stomach, esophageal & duodenal procedures	General Surgery	12
221	Major small & large bowel procedures	General Surgery	12
222	Other stomach, esophageal & duodenal procedures	General Surgery	12
223	Other small & large bowel procedures	General Surgery	12
224	Peritoneal adhesiolysis	General Surgery	12
225	Appendectomy	General Surgery	12
226	Anal procedures	General Surgery	12
227	Hernia procedures except inguinal, femoral & umbilical	General Surgery	12
228	Inguinal, femoral & umbilical hernia procedures	General Surgery	12
229	Other digestive system & abdominal procedures	General Surgery	12
240	Digestive malignancy	Oncology	26
241	Peptic ulcer & gastritis	Gastroenterology	10
242	Major esophageal disorders	Gastroenterology	10
243	Other esophageal disorders	Gastroenterology	10
244	Diverticulitis & diverticulosis	Gastroenterology	10
245	Inflammatory bowel disease	Gastroenterology	10
246	Gastrointestinal vascular insufficiency	Gastroenterology	10
247	Intestinal obstruction	Gastroenterology	10
248	Major gastrointestinal & peritoneal infections	Gastroenterology	10
249	Non-bacterial gastroenteritis, nausea & vomiting	Gastroenterology	10
251	Abdominal pain	Gastroenterology	10
252	Malfunction, reaction & complication of GI device or procedure	Gastroenterology	10
253	Other & unspecified gastrointestinal hemorrhage	Gastroenterology	10
254	Other digestive system diagnoses	Gastroenterology	10
260	Major pancreas, liver & shunt procedures	General Surgery	12
261	Major biliary tract procedures	General Surgery	12
262	Cholecystectomy except laparoscopic	General Surgery	12
263	Laparoscopic cholecystectomy	General Surgery	12
264	Other hepatobiliary, pancreas & abdominal procedures	General Surgery	12
279	Hepatic coma & other major acute liver disorders	Gastroenterology	10

APR			
DRG	DESCRIPTION	Product Category	Prodline
280	Alcoholic liver disease	Gastroenterology	10
281	Malignancy of hepatobiliary system & pancreas	Oncology	26
282	Disorders of pancreas except malignancy	Gastroenterology	10
283	Other disorders of the liver	Gastroenterology	10
284	Disorders of gallbladder & biliary tract	Gastroenterology	10
301	Hip joint replacement	Orthopedic Surgery	29
302	Knee joint replacement	Orthopedic Surgery	29
303	Dorsal & lumbar fusion proc for curvature of back	Orthopedic Surgery	29
304	Dorsal & lumbar fusion proc except for curvature of back	Orthopedic Surgery	29
305	Amputation of lower limb except toes	Orthopedic Surgery	29
308	Hip & femur procedures for trauma except joint replacement	Orthopedic Surgery	29
309	Hip & femur procedures for non-trauma except joint replacement	Orthopedic Surgery	29
310	Intervertebral disc excision & decompression	Orthopedic Surgery	29
	Skin graft, except hand, for musculoskeletal & connective tissue		
312	diagnoses	Orthopedic Surgery	29
313	Knee & lower leg procedures except foot	Orthopedic Surgery	29
314	Foot & toe procedures	Orthopedic Surgery	29
315	Shoulder, upper arm & forearm procedures	Orthopedic Surgery	29
316	Hand & wrist procedures	Orthopedic Surgery	29
317	Tendon, muscle & other soft tissue procedures	Orthopedic Surgery	29
320	Other musculoskeletal system & connective tissue procedures	Orthopedic Surgery	29
321	Cervical spinal fusion & other back/neck proc exc disc excis/decomp	Spinal Surgery	37
340	Fracture of femur	Orthopedics	30
341	Fracture of pelvis or dislocation of hip	Orthopedics	30
342	Fractures & dislocations except femur, pelvis & back	Orthopedics	30
343	Musculoskeletal malignancy & pathol fracture d/t muscskel malig	Oncology	26
344	Osteomyelitis, septic arthritis & other musculoskeletal infections	Infectious Disease	17
346	Connective tissue disorders	Rheumatology	36
347	Other back & neck disorders, fractures & injuries	Orthopedics	30
349	Malfunction, reaction, complic of orthopedic device or procedure	Orthopedics	30
351	Other musculoskeletal system & connective tissue diagnoses	Rheumatology	36
361	Skin graft for skin & subcutaneous tissue diagnoses	General Surgery	12
362	Mastectomy procedures	General Surgery	12
363	Breast procedures except mastectomy	General Surgery	12
364	Other skin, subcutaneous tissue & related procedures	General Surgery	12
380	Skin ulcers	Dermatology	4
381	Major skin disorders	Dermatology	4

APR	Opuateu-3/0/2013		
DRG	DESCRIPTION	Product Category	Prodline
382	Malignant breast disorders	Oncology	26
383	Cellulitis & other bacterial skin infections	Infectious Disease	17
384	Contusion, open wound & other trauma to skin & subcutaneous tissue	Dermatology	4
385	Other skin, subcutaneous tissue & breast disorders	Dermatology	4
401	Pituitary & adrenal procedures	Endocrinology Surgery	7
403	Procedures for obesity	Endocrinology Surgery	7
404	Thyroid, parathyroid & thyroglossal procedures	Endocrinology Surgery	7
405	Other procedures for endocrine, nutritional & metabolic disorders	Endocrinology Surgery	7
420	Diabetes	Diabetes	5
421	Malnutrition, failure to thrive & other nutritional disorders	Endocrinology	6
422	Hypovolemia & related electrolyte disorders	Endocrinology	6
423	Inborn errors of metabolism	Endocrinology	6
424	Other endocrine disorders	Endocrinology	6
425	Electrolyte disorders except hypovolemia related	Endocrinology	6
440	Kidney transplant	Transplant Surgery	40
441	Major bladder procedures	Urological Surgery	42
442	Kidney & urinary tract procedures for malignancy	Oncology	26
443	Kidney & urinary tract procedures for nonmalignancy	Urological Surgery	42
444	Renal dialysis access device procedure only	Urological Surgery	42
445	Other bladder procedures	Urological Surgery	42
446	Urethral & transurethral procedures	Urological Surgery	42
447	Other kidney, urinary tract & related procedures	Urological Surgery	42
460	Renal failure	Nephrology	22
461	Kidney & urinary tract malignancy	Oncology	26
462	Nephritis & nephrosis	Nephrology	22
463	Kidney & urinary tract infections	Nephrology	22
465	Urinary stones & acquired upper urinary tract obstruction	Urology	43
466	Malfunction, reaction, complic of genitourinary device or proc	Nephrology	22
468	Other kidney & urinary tract diagnoses, signs & symptoms	Nephrology	22
480	Major male pelvic procedures	Urological Surgery	42
481	Penis procedures	Urological Surgery	42
482	Transurethral prostatectomy	Urological Surgery	42
483	Testes & scrotal procedures	Urological Surgery	42

APR	opaatea 5/ 5/ 2015		
DRG	DESCRIPTION	Product Category	Prodline
484	Other male reproductive system & related procedures	General Surgery	12
500	Malignancy, male reproductive system	Oncology	26
501	Male reproductive system diagnoses except malignancy	Urology	43
510	Pelvic evisceration, radical hysterectomy & other radical GYN procs	Gynecological Surg	13
511	Uterine & adnexa procedures for ovarian & adnexal malignancy	Oncology	26
512	Uterine & adnexa procedures for non-ovarian & non-adnexal malig	Oncology	26
513	Uterine & adnexa procedures for non-malignancy except leiomyoma	Gynecological Surg	13
514	Female reproductive system reconstructive procedures	Gynecological Surg	13
517	Dilation & curettage for non-obstetric diagnoses	Gynecological Surg	13
518	Other female reproductive system & related procedures	Gynecological Surg	13
519	Uterine & adnexa procedures for leiomyoma	Gynecological Surg	13
530	Female reproductive system malignancy	Oncology	26
531	Female reproductive system infections	Gynecology	14
532	Menstrual & other female reproductive system disorders	Gynecology	14
540	Cesarean delivery	Obstetrics/Delivery	25
541	Vaginal delivery w sterilization &/or D&C	Obstetrics/Delivery	25
542	Vaginal delivery w complicating procedures exc sterilization &/or D&C	Obstetrics/Delivery	25
544	D&C, aspiration curettage or hysterotomy for obstetric diagnoses	Other Obstetrics	31
545	Ectopic pregnancy procedure	Gynecological Surg	13
546	Other O.R. proc for obstetric diagnoses except delivery diagnoses	Other Obstetrics	31
560	Vaginal delivery	Obstetrics/Delivery	25
561	Postpartum & post abortion diagnoses w/o procedure	Other Obstetrics	31
563	Threatened abortion	Other Obstetrics	31
564	Abortion w/o D&C, aspiration curettage or hysterotomy	Other Obstetrics	31
565	False labor	Other Obstetrics	31
566	Other antepartum diagnoses	Other Obstetrics	31
580	Neonate, transferred <5 days old, not born here	Neonatology	21
581	Neonate, transferred < 5 days old, born here	Neonatology	21
583	Neonate w ECMO	Neonatology	21
588	Neonate bwt <1500g w major procedure	Neonatology	21
589	Neonate bwt <500g	Neonatology	21
591	Neonate birthwt 500-749g w/o major procedure	Neonatology	21
593	Neonate birthwt 750-999g w/o major procedure	Neonatology	21
602	Neonate bwt 1000-1249g w resp dist synd/oth maj resp or maj anom	Neonatology	21
603	Neonate birthwt 1000-1249g w or w/o other significant condition	Neonatology	21
607	Neonate bwt 1250-1499g w resp dist synd/oth maj resp or maj anom	Neonatology	21
608	Neonate bwt 1250-1499g w or w/o other significant condition	Neonatology	21

ADD	Spaated 5/ 5/ 2015		
APR DRG	DESCRIPTION	Product Category	Prodline
609	Neonate bwt 1500-2499g w major procedure	Neonatology	21
611	Neonate birthwt 1500-1999g w major anomaly	Neonatology	21
612	Neonate bwt 1500-1999g w resp dist synd/oth maj resp cond	Neonatology	21
613	Neonate birthwt 1500-1999g w congenital/perinatal infection	Neonatology	21
614	Neonate bwt 1500-1999g w or w/o other significant condition	Neonatology	21
621	Neonate bwt 2000-2499g w major anomaly	Neonatology	21
622	Neonate bwt 2000-2499g w resp dist synd/oth maj resp cond	Neonatology	21
623	Neonate bwt 2000-2499g w congenital/perinatal infection	Neonatology	21
625	Neonate bwt 2000-2499g w other significant condition	Neonatology	21
626	Neonate bwt 2000-2499g, normal newborn or neonate w other problem	Neonatology	21
630	Neonate birthwt >2499g w major cardiovascular procedure	Neonatology	21
631	Neonate birthwt >2499g w other major procedure	Neonatology	21
633	Neonate birthwt >2499g w major anomaly	Neonatology	21
634	Neonate, birthwt >2499g w resp dist synd/oth maj resp cond	Neonatology	21
636	Neonate birthwt >2499g w congenital/perinatal infection	Neonatology	21
639	Neonate birthwt >2499g w other significant condition	Neonatology	21
640	Neonate birthwt >2499g, normal newborn or neonate w other problem	Normal Newborn	48
650	Splenectomy	General Surgery	12
651	Other procedures of blood & blood-forming organs	General Surgery	12
660	Major hematologic/immunologic diag exc sickle cell crisis & coagul	Hematology	15
661	Coagulation & platelet disorders	Hematology	15
662	Sickle cell anemia crisis	Hematology	15
663	Other anemia & disorders of blood & blood-forming organs	Hematology	15
680	Major O.R. procedures for lymphatic/hematopoietic/other neoplasms	General Surgery	12
681	Other O.R. procedures for lymphatic/hematopoietic/other neoplasms	General Surgery	12
690	Acute leukemia	Oncology	26
691	Lymphoma, myeloma & non-acute leukemia	Oncology	26
692	Radiotherapy	Oncology	26
693	Chemotherapy	Oncology	26
694	Lymphatic & other malignancies & neoplasms of uncertain behavior	Oncology	26
710	Infectious & parasitic diseases including HIV w O.R. procedure	General Surgery	12
711	Post-op, post-trauma, other device infections w O.R. procedure	General Surgery	12
720	Septicemia & disseminated infections	Infectious Disease	17
721	Post-operative, post-traumatic, other device infections	General Surgery	12
722	Fever	Infectious Disease	17
723	Viral illness	Infectious Disease	17
724	Other infectious & parasitic diseases	Infectious Disease	17

APR			
DRG	DESCRIPTION	Product Category	Prodline
740	Mental illness diagnosis w O.R. procedure	General Surgery	12
750	Schizophrenia	Psychiatry	33
751	Major depressive disorders & other/unspecified psychoses	Psychiatry	33
752	Disorders of personality & impulse control	Psychiatry	33
753	Bipolar disorders	Psychiatry	33
754	Depression except major depressive disorder	Psychiatry	33
755	Adjustment disorders & neuroses except depressive diagnoses	Psychiatry	33
756	Acute anxiety & delirium states	Psychiatry	33
757	Organic mental health disturbances	Psychiatry	33
758	Childhood behavioral disorders	Psychiatry	33
759	Eating disorders	Psychiatry	33
760	Other mental health disorders	Psychiatry	33
770	Drug & alcohol abuse or dependence, left against medical advice	Substance Abuse	38
772	Alcohol & drug dependence w rehab or rehab/detox therapy	Substance Abuse	38
773	Opioid abuse & dependence	Substance Abuse	38
774	Cocaine abuse & dependence	Substance Abuse	38
775	Alcohol abuse & dependence	Substance Abuse	38
776	Other drug abuse & dependence	Substance Abuse	38
		Injuries/complic. of	
791	O.R. procedure for other complications of treatment	prior care	18
811	Allergic reactions	General Medicine	11
812	Poisoning of medicinal agents	General Medicine	11
		Injuries/complic. of	
813	Other complications of treatment	prior care	18
815	Other injury, poisoning & toxic effect diagnoses	General Medicine	11
816	Toxic effects of non-medicinal substances	General Medicine	11
841	Extensive 3rd degree burns w skin graft	General Medicine	11
842	Full thickness burns w skin graft	General Medicine	11
843	Extensive 3rd degree or full thickness burns w/o skin graft	General Medicine	11
844	Partial thickness burns w or w/o skin graft	General Medicine	11
850	Procedure w diag of rehab, aftercare or oth contact w health service	General Surgery	12
860	Rehabilitation	Rehabilitation	35
861	Signs, symptoms & other factors influencing health status	General Medicine	11
862	Other aftercare & convalescence	General Medicine	11
863	Neonatal aftercare	General Medicine	11
890	HIV w multiple major HIV related conditions	HIV	16
892	HIV w major HIV related condition	HIV	16

	X / /		
APR	DESCRIPTION	Duradicat Catalana	D III:
DRG	DESCRIPTION	Product Category	Prodline
893	HIV w multiple significant HIV related conditions	HIV	16
894	HIV w one signif HIV cond or w/o signif related cond	HIV	16
910	Craniotomy for multiple significant trauma	Trauma	41
911	Extensive abdominal/thoracic procedures for mult significant trauma	Trauma	41
912	Musculoskeletal & other procedures for multiple significant trauma	Trauma	41
930	Multiple significant trauma w/o O.R. procedure	Trauma	41
950	Extensive procedure unrelated to principal diagnosis	General Surgery	12
951	Moderately extensive procedure unrelated to principal diagnosis	General Surgery	12
952	Nonextensive procedure unrelated to principal diagnosis	General Surgery	12
955	Invalid	Invalid	46
956	Ungroupable	Ungroupable	47

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APPENDIX II Outpatient Service Line Assignment Hierarchy

1. Radiation Therapy/Infusion/Chemo/Oncology Radiation

Therapy/Infusion/Chemo/Oncology cases where operating (rctchg40)<drug charge (rctchg67), Operating Room (rctchg40)<Radiation (rctchg 45 & rctchg46);Included EAPGS: (1, 110, 111,117, 340,341,342,343,344,345,346,347,348,349,431, 432,433, 434,441,443,460,461,462,463,464,465,476,477,478,482,483,484, 802, and 803)

- 2. **Emergency Department:** Emergency Department cases where emergency (rctchg28), free standing center (rctchg34), or Trauma Resuscitation rate center charges(rctchg90) > 0
- 3. **Drug:** Drug cases where EAPGs are assigned to drug service line
- 4. **Major Surgery**: Major Surgery cases where EAPGs are assigned to major surgery service line
- 5. Cardiovascular: Cardiovascular cases where EAPGs are assigned to cardiovascular service line
- 6. **Minor Surgery:** Cases where EAPGs are assigned to minor surgery service line
- 7. **Psychiatry**: Cases where EAPGs are assigned psychiatry service line
- 8. **Rehab & Therapy**: Cases where EAPGs are assigned rehab & therapy service line
- 9. **Clinic**: Cases where clinic (rctchg29), clinic services primary (rctchg30), oncology clinic (rctchg35), operating room clinic (rctchg79), or UM shock trauma clinic rate center charges (rctchg37) > 010.
- **10.** Unassigned: If high weight eapg =0

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11. Other: Cases where EAPGs are assigned various services including: Other; Lab,

Pathology, CT/MRI/PET, Radiology

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APPENDIX III: 30-day Readmission Definition Overview

The methodology for the readmission indicator is based on definitions in Maryland Readmission Reduction Incentive Program. Readmissions are based on 30-day all-payer all hospital (both intra and inter hospital) readmission rates. The readmission logic is run with both inpatient and observation stays with 24 hour or greater length of stay.

The following exclusions are applied in the CY 2015 Program logic:

- Planned readmissions are excluded from the numerator based upon CMS Planned Readmission Algorithm V. 3. The HSCRC has also added all vaginal and C-section deliveries as planned using the APR-DRGs rather than principal diagnosis (APR-DRGs 540, 541, 542, 560).
 Planned admissions are counted in the denominator because they could have an unplanned readmission.
- All newborn APR-DRG discharges are NOT eligible for a readmission.
- Hospitalizations within 30 days of a hospital discharge where a patient dies is counted as a readmission, however the readmission is removed from the denominator because there cannot be a subsequent readmission.
- Admissions that result in transfers, defined as cases where the discharge date of the admission
 is on the same day as the admission date of the subsequent admission, are removed from the
 denominator counts. Thus only one admission is counted in the denominator and that is the
 admission to the transfer hospital, and it is this discharge date that is used to calculate the 30day readmission window.
 - o In addition the following data cleaning edits are applied:
 - Cases with null or missing Chesapeake Regional Information System unique patient identifiers (CRISP EIDs)
 - Duplicates
 - Negative interval days

HSCRC staff is revising case mix data edits to prevent submission of duplicates and negative intervals which are very rare. In addition CRISP EID matching benchmarks are closely monitored. The percent of inpatient discharges with CRISP EID is currently at 99 percent.

Market Shift Adjustments under Global Revenue Models Updated-5/6/2015

APPENDIX IV: Prevention Quality Indicators Overview

The Prevention Quality Indicators (PQIs) are a set of measures that can be used with hospital inpatient discharge data to identify quality of care for "ambulatory care sensitive conditions." These are conditions for which good outpatients care can potentially prevent the need for hospitalization or for which early intervention can prevent complications or more severe disease. The PQIs are population based and adjusted for factors such as age, severity of illness.

Discharges, for patient's ages 18 years and older, that meet the inclusion and exclusion rules for the numerator in any of the following PQIs:

- PQI #1 Diabetes Short-Term Complications
- PQI #3 Diabetes Long-Term Complications
- PQI #5 Chronic Obstructive Pulmonary Disease (COPD) or Asthma in Older Adults
- PQI #7 Hypertension
- PQI #8 Heart Failure
- PQI #10 Dehydration
- POI #11 Bacterial Pneumonia
- PQI #12 Urinary Tract Infection
- PQI #13 Angina Without Procedure
- PQI #14 Uncontrolled Diabetes
- PQI #15 Asthma in Younger Adults Admission Rate
- PQI #16 Lower-Extremity Amputation among Patients with Diabetes

Discharges that meet the inclusion and exclusion rules for the numerator in more than one of the above PQIs are counted only once in the composite numerator.

Additional information can be accessed at:

http://www.qualityindicators.ahrq.gov/modules/pqi resources.aspx

Updated-5/6/2015

APPENDIX V: Categorical Cases Exclusions

- 1. Categorical Case Exclusions
 - Solid Organ Transplants APR DRGS = 001, 002, 003, 006 or 440
 (any procedure = 5280, 5282 or 5283 or any procedure = 5280, 5282, 5283, 4100, 4101, 4102, 4103, 4104, 4105, 4106, 4107, 4108 or 3751 Heart Transplantation 4109 or 336 or 3350, 3351, 3352, 5569, 5561, 5281, 5051, or 5059)
 - 1.2. Melodysplastic Any Diagnosis = 2387 for Johns Hopkins Oncology Center
 - 1.3. JHU Pediatric Burn Cases (Age < 18) 3rd Degree Burns
 - 1.4. Johns Hopkins and University Oncology Center
 - 1.4.1. Transplant Cases (Reserve Flag = 1)
 - 1.4.2. Research Cases (Reserve Flag = 2)
 - 1.4.3. Hematological Cases (Reserve Flag = 3)
 - 1.4.4. Transfer in Cases (Reserve Flag = 4)

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APPENDIX VI: Steps for Calculating APR DRG Weights - TBD

Updated-5/6/2015

APPENDIX VII: EAPG Service Line Map (EAPG version 38)

APG	APG DESCRIPTION	SERVICE
1	PHOTOCHEMOTHERAPY	Other
2	SUPERFICIAL NEEDLE BIOPSY AND ASPIRATION	Other
3	LEVEL I SKIN INCISION AND DRAINAGE	Minor Surgery
4	LEVEL II SKIN INCISION AND DRAINAGE	Major Surgery
5	NAIL PROCEDURES	Minor Surgery
6	LEVEL I SKIN DEBRIDEMENT AND DESTRUCTION	Minor Surgery
7	LEVEL II SKIN DEBRIDEMENT AND DESTRUCTION	Major Surgery
8	LEVEL III SKIN DEBRIDEMENT AND DESTRUCTION	Major Surgery
9	LEVEL I EXCISION AND BIOPSY OF SKIN AND SOFT TISSUE	Minor Surgery
10	LEVEL II EXCISION AND BIOPSY OF SKIN AND SOFT TISSUE	Major Surgery
11	LEVEL III EXCISION AND BIOPSY OF SKIN AND SOFT TISSUE	Major Surgery
12	LEVEL I SKIN REPAIR	Minor Surgery
13	LEVEL II SKIN REPAIR	Major Surgery
14	LEVEL III SKIN REPAIR	Major Surgery
15	LEVEL IV SKIN REPAIR	Major Surgery
20	LEVEL I BREAST PROCEDURES	Minor Surgery
21	LEVEL II BREAST PROCEDURES	Major Surgery
22	LEVEL III BREAST PROCEDURES	Major Surgery
30	LEVEL I MUSCULOSKELETAL PROCEDURES EXCLUDING HAND AND FOOT	Minor Surgery
31	LEVEL II MUSCULOSKELETAL PROCEDURES EXCLUDING HAND AND FOOT	Major Surgery
32	LEVEL III MUSCULOSKELETAL PROCEDURES EXCLUDING HAND AND FOOT	Major Surgery
33	LEVEL I HAND PROCEDURES	Minor Surgery
34	LEVEL II HAND PROCEDURES	Major Surgery
35	LEVEL I FOOT PROCEDURES	Major Surgery
36	LEVEL II FOOT PROCEDURES	Major Surgery
37	LEVEL I ARTHROSCOPY	Major Surgery
38	LEVEL II ARTHROSCOPY	Major Surgery
39	REPLACEMENT OF CAST	Other
40	SPLINT, STRAPPING AND CAST REMOVAL	Other
41	CLOSED TREATMENT FX & DISLOCATION OF FINGER, TOE & TRUNK	Major Surgery
42	CLOSED TREATMENT FX & DISLOCATION EXC FINGER, TOE & TRUNK	Major Surgery
43	OPEN OR PERCUTANEOUS TREATMENT OF FRACTURES	Major Surgery
44	BONE OR JOINT MANIPULATION UNDER ANESTHESIA	Major Surgery
45	BUNION PROCEDURES	Major Surgery
46	LEVEL I ARTHROPLASTY	Major Surgery
47	LEVEL II ARTHROPLASTY	Major Surgery
48	HAND AND FOOT TENOTOMY	Major Surgery

APG	APG DESCRIPTION	SERVICE
49	ARTHROCENTESIS AND LIGAMENT OR TENDON INJECTION	Minor Surgery
60	PULMONARY TESTS	Other
61	NEEDLE AND CATHETER BIOPSY, ASPIRATION, LAVAGE AND INTUBATION	Other
62	LEVEL I ENDOSCOPY OF THE UPPER AIRWAY	Minor Surgery
63	LEVEL II ENDOSCOPY OF THE UPPER AIRWAY	Major Surgery
64	ENDOSCOPY OF THE LOWER AIRWAY	Other
65	RESPIRATORY THERAPY	Other
66	PULMONARY REHABILITATION	Rehabilitation
67	VENTILATION ASSISTANCE AND MANAGEMENT	Other
80	EXERCISE TOLERANCE TESTS	Cardiovascular
81	ECHOCARDIOGRAPHY	Cardiovascular
82	CARDIAC ELECTROPHYSIOLOGIC TESTS AND MONITORING	Cardiovascular
83	PLACEMENT OF TRANSVENOUS CATHETERS	Cardiovascular
84	DIAGNOSTIC CARDIAC CATHETERIZATION	Cardiovascular
85	ANGIOPLASTY AND TRANSCATHETER PROCEDURES	Cardiovascular
86	PACEMAKER INSERTION AND REPLACEMENT	Cardiovascular
87	REMOVAL AND REVISION OF PACEMAKER AND VASCULAR DEVICE	Cardiovascular
88	LEVEL I CARDIOTHORACIC PROCEDURES W OR W/O VASCULAR DEVICE	Cardiovascular
89	LEVEL II CARDIOTHORACIC PROCEDURES W OR W/O VASCULAR DEVICE	Cardiovascular
90	SECONDARY VARICOSE VEINS AND VASCULAR INJECTION	Cardiovascular
91	VASCULAR LIGATION AND RECONSTRUCTION	Cardiovascular
92	RESUSCITATION	Cardiovascular
93	CARDIOVERSION	Cardiovascular
94	CARDIAC REHABILITATION	Cardiovascular
95	THROMBOLYSIS	Cardiovascular
96	ATRIAL AND VENTRICULAR RECORDING AND PACING	Cardiovascular
97	AICD IMPLANT	Cardiovascular
		Radiation, Infusion,
110	PHARMACOTHERAPY BY EXTENDED INFUSION	Chemotherapy
		Radiation, Infusion,
111	PHARMACOTHERAPY EXCEPT BY EXTENDED INFUSION	Chemotherapy
112	PHLEBOTOMY	Other
113	LEVEL I BLOOD AND BLOOD PRODUCT EXCHANGE	Other
114	LEVEL II BLOOD AND BLOOD PRODUCT EXCHANGE	Other
115	DEEP LYMPH STRUCTURE AND THYROID PROCEDURES	Minor Surgery
116	ALLERGY TESTS	Other
117	HOME INFUSION	Radiation, Infusion, chemotherapy

APG	APG DESCRIPTION	SERVICE
118	NUTRITION THERAPY	Other
130	ALIMENTARY TESTS AND SIMPLE TUBE PLACEMENT	Major Surgery
131	ESOPHAGEAL DILATION WITHOUT ENDOSCOPY	Other
132	ANOSCOPY WITH BIOPSY AND DIAGNOSTIC PROCTOSIGMOIDOSCOPY	Other
133	PROCTOSIGMOIDOSCOPY WITH EXCISION OR BIOPSY	Other
134	DIAGNOSTIC UPPER GI ENDOSCOPY OR INTUBATION	Other
135	THERAPEUTIC UPPER GI ENDOSCOPY OR INTUBATION	Other
136	DIAGNOSTIC LOWER GASTROINTESTINAL ENDOSCOPY	Other
137	THERAPEUTIC COLONOSCOPY	Other
138	ERCP AND MISCELLANEOUS GI ENDOSCOPY PROCEDURES	Minor Surgery
139	LEVEL I HERNIA REPAIR	Major Surgery
140	LEVEL II HERNIA REPAIR	Major Surgery
141	LEVEL I ANAL AND RECTAL PROCEDURES	Minor Surgery
142	LEVEL II ANAL AND RECTAL PROCEDURES	Major Surgery
143	LEVEL I GASTROINTESTINAL PROCEDURES	Minor Surgery
144	LEVEL II GASTROINTESTINAL PROCEDURES	Major Surgery
145	LEVEL I LAPAROSCOPY	Minor Surgery
146	LEVEL II LAPAROSCOPY	Major Surgery
147	LEVEL III LAPAROSCOPY	Major Surgery
148	LEVEL IV LAPAROSCOPY	Major Surgery
149	SCREENING COLORECTAL SERVICES	Other
160	EXTRACORPOREAL SHOCK WAVE LITHOTRIPSY	Other
161	URINARY STUDIES AND PROCEDURES	Other
162	URINARY DILATATION	Minor Surgery
163	LEVEL I BLADDER AND KIDNEY PROCEDURES	Minor Surgery
164	LEVEL II BLADDER AND KIDNEY PROCEDURES	Major Surgery
165	LEVEL III BLADDER AND KIDNEY PROCEDURES	Major Surgery
166	LEVEL I URETHRA AND PROSTATE PROCEDURES	Minor Surgery
167	LEVEL II URETHRA AND PROSTATE PROCEDURES	Major Surgery
168	HEMODIALYSIS	Other
169	PERITONEAL DIALYSIS	Other
180	TESTICULAR AND EPIDIDYMAL PROCEDURES	Major Surgery
181	CIRCUMCISION	Minor Surgery
182	INSERTION OF PENILE PROSTHESIS	Major Surgery
183	OTHER PENILE PROCEDURES	Major Surgery
184	DESTRUCTION OR RESECTION OF PROSTATE	Major Surgery
185	PROSTATE NEEDLE AND PUNCH BIOPSY	Other
190	ARTIFICIAL FERTILIZATION	Major Surgery

APG	APG DESCRIPTION	SERVICE
191	LEVEL I FETAL PROCEDURES	Minor Surgery
192	LEVEL II FETAL PROCEDURES	Major Surgery
193	TREATMENT OF INCOMPLETE ABORTION	Major Surgery
194	THERAPEUTIC ABORTION	Major Surgery
195	VAGINAL DELIVERY	Major Surgery
196	LEVEL I FEMALE REPRODUCTIVE PROCEDURES	Minor Surgery
197	LEVEL II FEMALE REPRODUCTIVE PROCEDURES	Major Surgery
198	LEVEL III FEMALE REPRODUCTIVE PROCEDURES	Major Surgery
199	DILATION AND CURETTAGE	Minor Surgery
200	HYSTEROSCOPY	Major Surgery
201	COLPOSCOPY	Other
210	EXTENDED EEG STUDIES	Other
211	ELECTROENCEPHALOGRAM	Other
212	ELECTROCONVULSIVE THERAPY	Other
213	NERVE AND MUSCLE TESTS	Other
214	NERVOUS SYSTEM INJECTIONS, STIMULATIONS OR CRANIAL TAP	Radiology
215	LEVEL I REVISION OR REMOVAL OF NEUROLOGICAL DEVICE	Minor Surgery
216	LEVEL II REVISION OR REMOVAL OF NEUROLOGICAL DEVICE	Major Surgery
217	LEVEL I NERVE PROCEDURES	Major Surgery
218	LEVEL II NERVE PROCEDURES	Major Surgery
219	SPINAL TAP	Major Surgery
220	INJECTION OF ANESTHETIC AND NEUROLYTIC AGENTS	Major Surgery
221	LAMINOTOMY AND LAMINECTOMY	Major Surgery
222	SLEEP STUDIES	Other
223	LEVEL III NERVE PROCEDURES	Major Surgery
224	LEVEL IV NERVE PROCEDURES	Major Surgery
230	MINOR OPHTHALMOLOGICAL TESTS AND PROCEDURES	Minor Surgery
231	FITTING OF CONTACT LENSES	Other
232	LASER EYE PROCEDURES	Major Surgery
233	CATARACT PROCEDURES	Major Surgery
234	LEVEL I ANTERIOR SEGMENT EYE PROCEDURES	Major Surgery
235	LEVEL II ANTERIOR SEGMENT EYE PROCEDURES	Major Surgery
236	LEVEL III ANTERIOR SEGMENT EYE PROCEDURES	Major Surgery
237	LEVEL I POSTERIOR SEGMENT EYE PROCEDURES	Major Surgery
238	LEVEL II POSTERIOR SEGMENT EYE PROCEDURES	Major Surgery
239	STRABISMUS AND MUSCLE EYE PROCEDURES	Major Surgery
240	LEVEL I REPAIR AND PLASTIC PROCEDURES OF EYE	Major Surgery
241	LEVEL II REPAIR AND PLASTIC PROCEDURES OF EYE	Major Surgery

APG	APG DESCRIPTION	SERVICE
250	COCHLEAR DEVICE IMPLANTATION	Major Surgery
251	OTORHINOLARYNGOLOGIC FUNCTION TESTS	Other
252	LEVEL I FACIAL AND ENT PROCEDURES	Minor Surgery
253	LEVEL II FACIAL AND ENT PROCEDURES	Major Surgery
254	LEVEL III FACIAL AND ENT PROCEDURES	Major Surgery
255	LEVEL IV FACIAL AND ENT PROCEDURES	Major Surgery
256	TONSIL AND ADENOID PROCEDURES	Minor Surgery
257	AUDIOMETRY	Other
270	OCCUPATIONAL THERAPY	Rehabilitation
271	PHYSICAL THERAPY	Physical Therapy
272	SPEECH THERAPY AND EVALUATION	Rehabilitation
273	MANIPULATION THERAPY	Rehabilitation
274	OCCUPATIONAL/PHYSICAL THERAPY, GROUP	Rehabilitation
275	SPEECH THERAPY & EVALUATION, GROUP	Rehabilitation
280	VASCULAR RADIOLOGY EXCEPT VENOGRAPHY OF EXTREMITY	Radiology
281	MAGNETIC RESONANCE ANGIOGRAPHY - HEAD AND/OR NECK	Radiology
282	MAGNETIC RESONANCE ANGIOGRAPHY - CHEST	Radiology
283	MAGNETIC RESONANCE ANGIOGRAPHY - OTHER SITES	Radiology
284	MYELOGRAPHY	Radiology
285	MISCELLANEOUS RADIOLOGICAL PROCEDURES WITH CONTRAST	Radiology
286	MAMMOGRAPHY	Radiology
287	DIGESTIVE RADIOLOGY	Radiology
	DIAGNOSTIC ULTRASOUND EXCEPT OBSTETRICAL AND VASCULAR OF	
288	LOWER EXTREMITIES	Radiology
289	VASCULAR DIAGNOSTIC ULTRASOUND OF LOWER EXTREMITIES	Radiology
290	PET SCANS	CT/MRI/PET
291	BONE DENSITOMETRY	Radiology
292	MRI- ABDOMEN	CT/MRI/PET
293	MRI- JOINTS	CT/MRI/PET
294	MRI- BACK	CT/MRI/PET
295	MRI- CHEST	CT/MRI/PET
296	MRI- OTHER	CT/MRI/PET
297	MRI- BRAIN	CT/MRI/PET
298	CAT SCAN BACK	CT/MRI/PET
299	CAT SCAN - BRAIN	CT/MRI/PET
300	CAT SCAN - ABDOMEN	CT/MRI/PET
301	CAT SCAN - OTHER	CT/MRI/PET
302	ANGIOGRAPHY, OTHER	Radiology

APG	APG DESCRIPTION	SERVICE
303	ANGIOGRAPHY, CEREBRAL	Radiology
310	DEVELOPMENTAL & NEUROPSYCHOLOGICAL TESTING	Other
311	FULL DAY PARTIAL HOSPITALIZATION FOR SUBSTANCE ABUSE	Psychiatric
312	FULL DAY PARTIAL HOSPITALIZATION FOR MENTAL ILLNESS	Psychiatric
313	HALF DAY PARTIAL HOSPITALIZATION FOR SUBSTANCE ABUSE	Psychiatric
314	HALF DAY PARTIAL HOSPITALIZATION FOR MENTAL ILLNESS	Psychiatric
315	COUNSELLING OR INDIVIDUAL BRIEF PSYCHOTHERAPY	Psychiatric
316	INDIVIDUAL COMPREHENSIVE PSYCHOTHERAPY	Psychiatric
317	FAMILY PSYCHOTHERAPY	Psychiatric
318	GROUP PSYCHOTHERAPY	Psychiatric
319	ACTIVITY THERAPY	Psychiatric
320	CASE MANAGEMENT & TREATMENT PLAN DEVELOPMENT - MENTAL HEALTH OR SUBSTANCE ABUSE	Psychiatric
321	CRISIS INTERVENTION	Psychiatric
322	MEDICATION ADMINISTRATION & OBSERVATION	Psychiatric
323	MENTAL HYGIENE ASSESSMENT	Psychiatric
324	MENTAL HEALTH SCREENING & BRIEF ASSESSMENT	Psychiatric
327	INTENSIVE OUTPATIENT PSYCHIATRIC TREATMENT	Psychiatric
328	DAY REHABILITATION, HALF DAY	Rehabilitation
329	DAY REHABILITATION, FULL DAY	Rehabilitation
330	LEVEL I DIAGNOSTIC NUCLEAR MEDICINE	Other
331	LEVEL II DIAGNOSTIC NUCLEAR MEDICINE	Other
332	LEVEL III DIAGNOSTIC NUCLEAR MEDICINE	Other
340	THERAPEUTIC NUCLEAR MEDICINE	Other
341	RADIATION THERAPY AND HYPERTHERMIA	Radiation, Infusion, chemotherapy
342	LEVEL I AFTERLOADING BRACHYTHERAPY	Radiation, Infusion, chemotherapy
343	RADIATION TREATMENT DELIVERY	Radiation, Infusion, chemotherapy
344	INSTILLATION OF RADIOELEMENT SOLUTIONS	Radiation, Infusion, chemotherapy
345	HYPERTHERMIC THERAPIES	Radiation, Infusion, chemotherapy
346	RADIOSURGERY	Radiation, Infusion, Chemotheraphy
347	HIGH ENERGY NEUTRON RADIATION TREATMENT DELIVERY	Radiation, Infusion, Chemotheraphy

APG	APG DESCRIPTION	SERVICE
		Radiation, Infusion,
348	PROTON TREATMENT DELIVERY	Chemotheraphy
		Radiation, Infusion,
349	LEVEL II AFTERLOADING BRACHYTHERAPY	Chemotheraphy
350	LEVEL I ADJUNCTIVE GENERAL DENTAL SERVICES	Other
351	LEVEL II ADJUNCTIVE GENERAL DENTAL SERVICES	Other
352	PERIODONTICS	Other
353	LEVEL I PROSTHODONTICS, FIXED	Other
354	,	Other
355	LEVEL III PROSTHODONTICS, FIXED	Other
356	LEVEL I PROSTHODONTICS, REMOVABLE	Other
357	LEVEL II PROSTHODONTICS, REMOVABLE	Other
358	LEVEL III PROSTHODONTICS, REMOVABLE	Other
359	LEVEL I MAXILLOFACIAL PROSTHETICS	Other
360	LEVEL II MAXILLOFACIAL PROSTHETICS	Other
361	LEVEL I DENTAL RESTORATIONS	Other
362	LEVEL II DENTAL RESTORATIONS	Other
363	LEVEL III DENTAL RESTORATION	Other
364	LEVEL I ENDODONTICS	Other
365	LEVEL II ENDODONTICS	Other
366	LEVEL III ENDODONTICS	Other
367	LEVEL I ORAL AND MAXILLOFACIAL SURGERY	Minor Surgery
368	LEVEL II ORAL AND MAXILLOFACIAL SURGERY	Major Surgery
369	LEVEL III ORAL AND MAXILLOFACIAL SURGERY	Major Surgery
370	LEVEL IV ORAL AND MAXILLOFACIAL SURGERY	Major Surgery
371	ORTHODONTICS	Other
372	SEALANT	Other
373	LEVEL I DENTAL FILM	Other
374	LEVEL II DENTAL FILM	Other
375	DENTAL ANESTHESIA	Other
376	DIAGNOSTIC DENTAL PROCEDURES	Minor Surgery
377	PREVENTIVE DENTAL PROCEDURES	Preventive
380	ANESTHESIA	Other
390	LEVEL I PATHOLOGY	Pathology
391	LEVEL II PATHOLOGY	Pathology
392	PAP SMEARS	Pathology
393	BLOOD AND TISSUE TYPING	Lab
394	LEVEL I IMMUNOLOGY TESTS	Lab

APG	APG DESCRIPTION	SERVICE
395	LEVEL II IMMUNOLOGY TESTS	Lab
396	LEVEL I MICROBIOLOGY TESTS	Lab
397	LEVEL II MICROBIOLOGY TESTS	Lab
398	LEVEL I ENDOCRINOLOGY TESTS	Lab
399	LEVEL II ENDOCRINOLOGY TESTS	Lab
400	LEVEL I CHEMISTRY TESTS	Lab
401	LEVEL II CHEMISTRY TESTS	Lab
402	BASIC CHEMISTRY TESTS	Lab
403	ORGAN OR DISEASE ORIENTED PANELS	Lab
404	TOXICOLOGY TESTS	Lab
405	THERAPEUTIC DRUG MONITORING	Lab
406	LEVEL I CLOTTING TESTS	Lab
407	LEVEL II CLOTTING TESTS	Lab
408	LEVEL I HEMATOLOGY TESTS	Lab
409	LEVEL II HEMATOLOGY TESTS	Lab
410	URINALYSIS	Lab
411	BLOOD AND URINE DIPSTICK TESTS	Lab
412	SIMPLE PULMONARY FUNCTION TESTS	Other
413	CARDIOGRAM	Other
414	LEVEL I IMMUNIZATION	Other
415	LEVEL II IMMUNIZATION	Other
416	LEVEL III IMMUNIZATION	Other
417	MINOR REPRODUCTIVE PROCEDURES	Minor Surgery
418	MINOR CARDIAC AND VASCULAR TESTS	Other
419	MINOR OPHTHALMOLOGICAL INJECTION, SCRAPING AND TESTS	Other
420	PACEMAKER AND OTHER ELECTRONIC ANALYSIS	Other
421	TUBE CHANGE	Other
422	PROVISION OF VISION AIDS	Other
423	INTRODUCTION OF NEEDLE AND CATHETER	Other
424	DRESSINGS AND OTHER MINOR PROCEDURES	Minor Surgery
425	OTHER MISCELLANEOUS ANCILLARY PROCEDURES	Minor Surgery
426	PSYCHOTROPIC MEDICATION MANAGEMENT	Other
427	BIOFEEDBACK AND OTHER TRAINING	Other
428	PATIENT EDUCATION, INDIVIDUAL	Other
429	PATIENT EDUCATION, GROUP	Other
430	CLASS I CHEMOTHERAPY DRUGS	Radiation, Infusion, Chemotheraphy

APG	APG DESCRIPTION	SERVICE
		Radiation, Infusion,
431	CLASS II CHEMOTHERAPY DRUGS	Chemotheraphy
		Radiation, Infusion,
432	CLASS III CHEMOTHERAPY DRUGS	Chemotheraphy
		Radiation, Infusion,
433	CLASS IV CHEMOTHERAPY DRUGS	Chemotheraphy
404	OLASS VIGUENASTUENANVINIS	Radiation, Infusion,
434	CLASS V CHEMOTHERAPY DRUGS	Chemotheraphy
435	CLASS I PHARMACOTHERAPY	Drugs
436	CLASS II PHARMACOTHERAPY	Drugs
437	CLASS III PHARMACOTHERAPY	Drugs
438	CLASS IV PHARMACOTHERAPY	Drugs
439	CLASS V PHARMACOTHERAPY	Drugs
440	CLASS VI PHARMACOTHERAPY	Drugs
		Radiation, Infusion,
441	CLASS VI CHEMOTHERAPY DRUGS	Chemotheraphy
		Radiation, Infusion,
443	CLASS VII CHEMOTHERAPY DRUGS	Chemotheraphy
444	CLASS VII PHARMACOTHERAPY	Drugs
448	EXPANDED HOURS ACCESS	Other
449	ADDITIONAL UNDIFFERENTIATED MEDICAL VISITS/SERVICES	Other
450	OBSERVATION	Observation
451	SMOKING CESSATION TREATMENT	Other
452	DIABETES SUPPLIES	Other
453	MOTORIZED WHEELCHAIR	Other
454	TPN FORMULAE	Other
455	IMPLANTED TISSUE OF ANY TYPE	Other
456	MOTORIZED WHEELCHAIR ACCESSORIES	Other
457	VENIPUNCTURE	Other
458	ALLERGY THERAPY	Other
459	VACCINE ADMINISTRATION	Other
		Radiation, Infusion,
460	CLASS VIII COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy
		Radiation, Infusion,
461	CLASS IX COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy
		Radiation, Infusion,
462	CLASS X COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy
		Radiation, Infusion,
463	CLASS XI COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy

APG	APG DESCRIPTION	SERVICE
		Radiation, Infusion,
464	CLASS XII COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy
		Radiation, Infusion,
465	CLASS XIII COMBINED CHEMOTHERAPY AND PHARMACOTHERAPY	Chemotheraphy
470	OBSTETRICAL ULTRASOUND	Radiology
471	PLAIN FILM	Radiology
472	ULTRASOUND GUIDANCE	Radiology
473	CT GUIDANCE	CT/MRI/PET
474	RADIOLOGICAL GUIDANCE FOR THERAPEUTIC OR DIAGNOSTIC PROCEDURES	Radiology
475	MRI GUIDANCE	CT/MRI/PET
476	LEVEL I THERAPEUTIC RADIATION TREATMENT PREPARATION	Radiology
477	LEVEL II THERAPEUTIC RADIATION TREATMENT PREPARATION	Radiology
478	MEDICAL RADIATION PHYSICS	Radiology
479	TREATMENT DEVICE DESIGN AND CONSTRUCTION	Radiology
480	TELETHERAPY/BRACHYTHERAPY CALCULATION	Radiology
481	THERAPEUTIC RADIOLOGY SIMULATION FIELD SETTING	Radiology
482	RADIOELEMENT APPLICATION	Radiation, Infusion, Chemotheraphy
483	RADIATION THERAPY MANAGEMENT	Radiation, Infusion, Chemotheraphy
484	THERAPEUTIC RADIOLOGY TREATMENT PLANNING	Radiology
485	CORNEAL TISSUE PROCESSING	Other
490	INCIDENTAL TO MEDICAL, SIGNIFICANT PROCEDURE OR THERAPY VISIT	Other
491	MEDICAL VISIT INDICATOR	Other
492	ENCOUNTER/REFERRAL FOR OBSERVATION INDICATOR	Other
495	MINOR CHEMOTHERAPY DRUGS	Radiation, Infusion, Chemotheraphy
496	MINOR PHARMACOTHERAPY	Drugs
500	ENCOUNTER/REFERRAL FOR OBSERVATION - OBSTETRICAL	Other
501	ENCOUNTER/REFERRAL FOR OBSERVATION - OTHER DIAGNOSES	Other
502	ENCOUNTER/REFERRAL FOR OBSERVATION - BEHAVIORAL HEALTH	Other
510	MAJOR SIGNS, SYMPTOMS AND FINDINGS	Other
520	SPINAL DISORDERS & INJURIES	Other
		Radiation, Infusion,
521	NERVOUS SYSTEM MALIGNANCY	Chemotheraphy
522	DEGENERATIVE NERVOUS SYSTEM DISORDERS EXC MULT SCLEROSIS	Other
523	MULTIPLE SCLEROSIS & OTHER DEMYELINATING DISEASES	Other
524	LEVEL I CNS DISORDERS	Other

APG	APG DESCRIPTION	SERVICE
525	LEVEL II CNS DISORDERS	Other
526	TRANSIENT ISCHEMIA	Other
527	PERIPHERAL NERVE DISORDERS	Other
528	NONTRAUMATIC STUPOR & COMA	Other
529	SEIZURE	Other
530	HEADACHES OTHER THAN MIGRAINE	Other
531	MIGRAINE	Other
532	HEAD TRAUMA	Other
533	AFTEREFFECTS OF CEREBROVASCULAR ACCIDENT	Other
534	NONSPECIFIC CVA & PRECEREBRAL OCCLUSION W/O INFARC	Other
535	CVA & PRECEREBRAL OCCLUSION W INFARCT	Other
536	CEREBRAL PALSY	Other
550	ACUTE MAJOR EYE INFECTIONS	Other
551	CATARACTS	Other
552	GLAUCOMA	Other
553	LEVEL I OTHER OPHTHALMIC DIAGNOSES	Other
554	LEVEL II OTHER OPHTHALMIC DIAGNOSES	Other
555	CONJUNCTIVITIS	Other
560	EAR, NOSE, MOUTH, THROAT, CRANIAL/FACIAL MALIGNANCIES	Other
561	VERTIGINOUS DISORDERS EXCEPT FOR BENIGN VERTIGO	Other
562	INFECTIONS OF UPPER RESPIRATORY TRACT & OTITIS MEDIA	Other
563	DENTAL & ORAL DISEASES & INJURIES	Other
564	LEVEL I OTHER EAR, NOSE, MOUTH, THROAT & CRANIAL/FACIAL DIAGNOSES	Other
	LEVEL II OTHER EAR, NOSE, MOUTH, THROAT & CRANIAL/FACIAL	
565	DIAGNOSES	Other
570	CYSTIC FIBROSIS - PULMONARY DISEASE	Other
571	RESPIRATORY MALIGNANCY	Other
572	BRONCHIOLITIS & RSV PNEUMONIA	Other
573	COMMUNITY ACQUIRED PNUEMONIA	Other
574	CHRONIC OBSTRUCTIVE PULMONARY DISEASE	Other
575	ASTHMA	Other
576	LEVEL I OTHER RESPIRATORY DIAGNOSES	Other
577	LEVEL II OTHER RESPIRATORY DIAGNOSES	Other
578	PNEUMONIA EXCEPT FOR COMMUNITY ACQUIRED PNEUMONIA	Other
579	STATUS ASTHMATICUS	Other
591	ACUTE MYOCARDIAL INFARCTION	Other
592	LEVEL I CARDIOVASCULAR DIAGNOSES	Other
593	LEVEL II CARDIOVASCULAR DIAGNOSES	Other

APG	APG DESCRIPTION	SERVICE
594	HEART FAILURE	Other
595	CARDIAC ARREST	Other
596	PERIPHERAL & OTHER VASCULAR DISORDERS	Other
597	PHLEBITIS	Other
598	ANGINA PECTORIS & CORONARY ATHEROSCLEROSIS	Other
599	HYPERTENSION	Other
600	CARDIAC STRUCTURAL & VALVULAR DISORDERS	Other
601	LEVEL I CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS	Other
602	ATRIAL FIBRILLATION	Other
603	LEVEL II CARDIAC ARRHYTHMIA & CONDUCTION DISORDERS	Other
604	CHEST PAIN	Other
605	SYNCOPE & COLLAPSE	Other
620	DIGESTIVE MALIGNANCY	Radiation, Infusion, Chemotheraphy
621	PEPTIC ULCER & GASTRITIS	Other
623	ESOPHAGITIS	Other
624	LEVEL I GASTROINTESTINAL DIAGNOSES	Other
625	LEVEL II GASTROINTESTINAL DIAGNOSES	Other
626	INFLAMMATORY BOWEL DISEASE	Other
627	NON-BACTERIAL GASTROENTERITIS, NAUSEA & VOMITING	Other
628	ABDOMINAL PAIN	Other
629	MALFUNCTION, REACTION & COMPLICATION OF GI DEVICE OR PROCEDURE	Other
630	CONSTIPATION	Other
631	HERNIA	Other
632	IRRITABLE BOWEL SYNDROME	Other
633	ALCOHOLIC LIVER DISEASE	Other
634	MALIGNANCY OF HEPATOBILIARY SYSTEM & PANCREAS	Radiation, Infusion, Chemotheraphy
635	DISORDERS OF PANCREAS EXCEPT MALIGNANCY	Other
636	HEPATITIS WITHOUT COMA	Other
637	DISORDERS OF GALLBLADDER & BILIARY TRACT	Other
638	CHOLECYSTITIS	Other
639	LEVEL I HEPATOBILIARY DIAGNOSES	Other
640	LEVEL II HEPATOBILIARY DIAGNOSES	Other
650	FRACTURE OF FEMUR	Other
651	FRACTURE OF PELVIS OR DISLOCATION OF HIP	Other
652	FRACTURES & DISLOCATIONS EXCEPT FEMUR, PELVIS & BACK	Other
653	MUSCULOSKELETAL MALIGNANCY & PATHOLOGICAL FRACTURES	Other

APG	APG DESCRIPTION	SERVICE
	OSTEOMYELITIS, SEPTIC ARTHRITIS & OTHER MUSCULOSKELETAL	
654	INFECTIONS	Other
655	CONNECTIVE TISSUE DISORDERS	Other
656	BACK & NECK DISORDERS EXCEPT LUMBAR DISC DISEASE	Other
657	LUMBAR DISC DISEASE	Other
658	LUMBAR DISC DISEASE WITH SCIATICA	Other
CEO	MALFUNCTION, REACTION, COMPLIC OF ORTHOPEDIC DEVICE OR	Other
659	PROCEDURE	Other
660	LEVEL I OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	Other
661	LEVEL II OTHER MUSCULOSKELETAL SYSTEM & CONNECTIVE TISSUE DIAGNOSES	Other
662	OSTEOPOROSIS	Other
663	PAIN	Other
670	SKIN ULCERS	Other
671	MAJOR SKIN DISORDERS	Other
071	WAJON SKIN DISONDENS	
672	MALIGNANT BREAST DISORDERS	Radiation, Infusion, Chemotheraphy
673	CELLULITIS & OTHER BACTERIAL SKIN INFECTIONS	Other
674	CONTUSION, OPEN WOUND & OTHER TRAUMA TO SKIN & SUBCUTANEOUS TISSUE	Other
675	OTHER SKIN, SUBCUTANEOUS TISSUE & BREAST DISORDERS	Other
676	DECUBITUS ULCER	Other
690	MALNUTRITION, FAILURE TO THRIVE & OTHER NUTRITIONAL DISORDERS	Other
691	INBORN ERRORS OF METABOLISM	Other
692	LEVEL I ENDOCRINE DISORDERS	Other
693	LEVEL II ENDOCRINE DISORDERS	Other
	ELECTROLYTE DISORDERS	Other
695	OBESITY	Other
710	DIABETES WITH OPHTHALMIC MANIFESTATIONS	Other
711	DIABETES WITH OTHER MANIFESTATIONS & COMPLICATIONS	Other
712	DIABETES WITH NEUROLOGIC MANIFESTATIONS	Other
713	DIABETES WITHOUT COMPLICATIONS	Other
714	DIABETES WITH RENAL MANIFESTATIONS	Other
720	RENAL FAILURE	Other
724	VIDNEY & LIDINADY TRACT MAALICALANCY	Radiation, Infusion,
721	KIDNEY & URINARY TRACT MALIGNANCY	Chemotheraphy
722	NEPHRITIS & NEPHROSIS	Other
723	KIDNEY AND CHRONIC URINARY TRACT INFECTIONS	Other

APG	APG DESCRIPTION	SERVICE	
724	URINARY STONES & ACQUIRED UPPER URINARY TRACT OBSTRUCTION	Other	
725	MALFUNCTION, REACTION, COMPLIC OF GENITOURINARY DEVICE OR PROC	Other	
726	OTHER KIDNEY & URINARY TRACT DIAGNOSES, SIGNS & SYMPTOMS	Other	
727	ACUTE LOWER URINARY TRACT INFECTIONS	Other	
		Radiation, Infusion,	
740	MALIGNANCY, MALE REPRODUCTIVE SYSTEM	Chemotheraphy	
741	MALE REPRODUCTIVE SYSTEM DIAGNOSES EXCEPT MALIGNANCY	Other	
742	NEOPLASMS OF THE MALE REPRODUCTIVE SYSTEM	Other	
743	PROSTATITIS	Other	
744	MALE REPRODUCTIVE INFECTIONS	Other	
750	FEMALE REPRODUCTIVE SYSTEM MALIGNANCY	Other	
751	FEMALE REPRODUCTIVE SYSTEM INFECTIONS	Other	
752	LEVEL I MENSTRUAL AND OTHER FEMALE DIAGNOSES	Other	
753	LEVEL II MENSTRUAL AND OTHER FEMALE DIAGNOSES	Other	
760	VAGINAL DELIVERY	Other	
761	POSTPARTUM & POST ABORTION DIAGNOSES W/O PROCEDURE	Other	
762	THREATENED ABORTION	Other	
763	ABORTION W/O D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY	Other	
764	FALSE LABOR	Other	
765	OTHER ANTEPARTUM DIAGNOSES	Other	
766	ROUTINE PRENATAL CARE	Other	
770	NORMAL NEONATE	Other	
771	LEVEL I NEONATAL DIAGNOSES	Other	
772	LEVEL II NEONATAL DIAGNOSES	Other	
780	OTHER HEMATOLOGICAL DISORDERS	Other	
781	COAGULATION & PLATELET DISORDERS	Other	
782	CONGENITAL FACTOR DEFICIENCIES	Other	
783	SICKLE CELL ANEMIA CRISIS	Other	
784	SICKLE CELL ANEMIA	Other	
785	ANEMIA EXCEPT FOR IRON DEFICIENCY ANEMIA AND SICKLE CELL ANEMIA	Other	
786	IRON DEFICIENCY ANEMIA	Other	
800	ACUTE LEUKEMIA	Other	
801	LYMPHOMA, MYELOMA & NON-ACUTE LEUKEMIA	Other	
802	RADIOTHERAPY	Other	
803	CHEMOTHERAPY	Other	
804	LYMPHATIC & OTHER MALIGNANCIES & NEOPLASMS OF UNCERTAIN BEHAVIOR	Other	
805	SEPTICEMIA & DISSEMINATED INFECTIONS	Other	

APG	APG DESCRIPTION	SERVICE
806	POST-OPERATIVE, POST-TRAUMATIC, OTHER DEVICE INFECTIONS	Other
807	FEVER	Other
808	VIRAL ILLNESS	Other
809	OTHER INFECTIOUS & PARASITIC DISEASES	Other
810	H. PYLORI INFECTION	Other
820	SCHIZOPHRENIA	Psychiatric
821	MAJOR DEPRESSIVE DISORDERS & OTHER/UNSPECIFIED PSYCHOSES	Psychiatric
822	DISORDERS OF PERSONALITY & IMPULSE CONTROL	Psychiatric
823	BIPOLAR DISORDERS	Psychiatric
824	DEPRESSION EXCEPT MAJOR DEPRESSIVE DISORDER	Psychiatric
825	ADJUSTMENT DISORDERS & NEUROSES EXCEPT DEPRESSIVE DIAGNOSES	Psychiatric
826	ACUTE ANXIETY & DELIRIUM STATES	Psychiatric
827	ORGANIC MENTAL HEALTH DISTURBANCES	Psychiatric
828	MENTAL RETARDATION	Psychiatric
829	CHILDHOOD BEHAVIORAL DISORDERS	Psychiatric
830	EATING DISORDERS	Psychiatric
831	OTHER MENTAL HEALTH DISORDERS	Psychiatric
840	OPIOID ABUSE & DEPENDENCE	Other
841	COCAINE ABUSE & DEPENDENCE	Other
842	ALCOHOL ABUSE & DEPENDENCE	Other
843	OTHER DRUG ABUSE & DEPENDENCE	Other
850	ALLERGIC REACTIONS	Other
851	POISONING OF MEDICINAL AGENTS	Other
852	OTHER COMPLICATIONS OF TREATMENT	Other
853	OTHER INJURY, POISONING & TOXIC EFFECT DIAGNOSES	Other
854	TOXIC EFFECTS OF NON-MEDICINAL SUBSTANCES	Other
860	EXTENSIVE 3RD DEGREE OR FULL THICKNESS BURNS W/O SKIN GRAFT	Other
861	PARTIAL THICKNESS BURNS W OR W/O SKIN GRAFT	Other
870	REHABILITATION	Rehabilitation
871	SIGNS, SYMPTOMS & OTHER FACTORS INFLUENCING HEALTH STATUS	Other
872	OTHER AFTERCARE & CONVALESCENCE	Other
873	NEONATAL AFTERCARE	Other
874	JOINT REPLACEMENT	Other
875	CONTRACEPTIVE MANAGEMENT	Other
876	ADULT PREVENTIVE MEDICINE	Preventive
877	CHILD PREVENTIVE MEDICINE	Preventive
878	GYNECOLOGIC PREVENTIVE MEDICINE	Preventive
879	PREVENTIVE OR SCREENING ENCOUNTER	Preventive

APG	APG DESCRIPTION	SERVICE
880	HIV INFECTION	Other
881	AIDS	Other
993	INPATIENT ONLY PROCEDURES	Major Surgery
994	USER CUSTOMIZABLE INPATIENT PROCEDURES	Other
999	UNASSIGNED	Unassigned
1001	DURABLE MEDICAL EQUIPMENT - LEVEL 1	Other
1002	DURABLE MEDICAL EQUIPMENT - LEVEL 2	Other
1003	DURABLE MEDICAL EQUIPMENT - LEVEL 3	Other
1004	DURABLE MEDICAL EQUIPMENT - LEVEL 4	Other
1005	DURABLE MEDICAL EQUIPMENT - LEVEL 5	Other
1006	DURABLE MEDICAL EQUIPMENT - LEVEL 6	Other
1007	DURABLE MEDICAL EQUIPMENT - LEVEL 7	Other
1008	DURABLE MEDICAL EQUIPMENT - LEVEL 8	Other
1009	DURABLE MEDICAL EQUIPMENT - LEVEL 9	Other
1010	DURABLE MEDICAL EQUIPMENT - LEVEL 10	Other
1011	DURABLE MEDICAL EQUIPMENT - LEVEL 11	Other
1012	DURABLE MEDICAL EQUIPMENT - LEVEL 12	Other
1013	DURABLE MEDICAL EQUIPMENT - LEVEL 13	Other
1014	DURABLE MEDICAL EQUIPMENT - LEVEL 14	Other
1015	DURABLE MEDICAL EQUIPMENT - LEVEL 15	Other
1016	DURABLE MEDICAL EQUIPMENT - LEVEL 16	Other
1017	DURABLE MEDICAL EQUIPMENT - LEVEL 17	Other
1018	DURABLE MEDICAL EQUIPMENT - LEVEL 18	Other
1019	DURABLE MEDICAL EQUIPMENT - LEVEL 19	Other
1020	DURABLE MEDICAL EQUIPMENT - LEVEL 20	Other
1090	USER DEFINED 340B DRUGS	Drugs

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APPENDIX VIII: Steps in Calculating Outpatient Weights - TBD