

80th percentile charge is calculated as set forth in either paragraph (e)(3)(i) or (e)(3)(ii) of this section. The resulting amount is trended forward to the effective time period for the charges, as set forth in paragraph (e)(3)(iii) of this section. The results constitute the nationwide 80th percentile outpatient facility charges by CPT/HCPCS code.

(i) *Nationwide 80th percentile charges for CPT/HCPCS codes which have APC assignments.* Using the outpatient facility charges reported in the outpatient facility component of the Medicare Standard Analytical File 5 percent Sample, claim records are selected for which all charges can be assigned to an APC. Using this subset of the 5 percent Sample data, nationwide median charge to Medicare APC payment amount ratios, by APC, and nationwide 80th percentile to median charge ratios, by APC, are computed according to the methodology set forth in paragraphs (e)(3)(i)(A) and (e)(3)(i)(B) of this section, respectively. The product of these two ratios by APC is then computed, resulting in a composite nationwide 80th percentile charge to Medicare APC payment amount ratio. This ratio is then compared to the alternate nationwide 80th percentile charge to Medicare APC payment amount ratio computed in paragraph (e)(3)(i)(C) of this section, and the lesser amount is selected and multiplied by the current Medicare APC payment amount. The resulting product is the APC-specific nationwide 80th percentile charge amount for each applicable CPT/HCPCS code.

(A) *Nationwide median charge to Medicare APC payment amount ratios.* For each CPT/HCPCS code, the ratio of median billed charge to Medicare APC payment amount is determined. The weighted average of these ratios for each APC is then obtained, using the reported 5 percent Sample frequencies as weights. In addition, corresponding ratios are calculated for each of the APC categories set forth in paragraph (e)(3)(i)(D) of this section, again using the reported 5 percent Sample frequencies as weights. For APCs where the 5 percent Sample frequencies provide a statistically credible result, the APC-specific weighted average nationwide median charge to Medicare APC payment amount ratio so obtained is accepted without further adjustment. However, if the 5 percent Sample data do not produce statistically credible results for any specific APC, then the APC category-specific ratio is applied for that APC.

(B) *Nationwide 80th percentile to median charge ratios.* For each CPT/HCPCS code, a geographically

normalized nationwide 80th percentile billed charge amount is divided by a similarly normalized nationwide median billed charge amount. The weighted average of these ratios for each APC is then obtained, using the reported 5 percent Sample frequencies as weights. In addition, corresponding ratios are calculated for each of the APC categories set forth in paragraph (e)(3)(i)(D) of this section, again using the reported 5 percent Sample frequencies as weights. For APCs where the 5 percent Sample frequencies provide a statistically credible result, the APC-specific weighted average nationwide 80th percentile to median charge ratio so obtained is accepted without further adjustment. However, if the 5 percent Sample data do not produce statistically credible results for any specific APC, then the APC category-specific ratio is applied for that APC.

(C) *Alternate nationwide 80th percentile charge to Medicare APC payment amount ratios.* A minimum 80th percentile charge to Medicare APC payment amount ratio is set at 2.0 for APCs with Medicare APC payment amounts of \$25 or less. A maximum 80th percentile charge to Medicare APC payment amount ratio is set at 6.5 for APCs with Medicare APC payment amounts of \$10,000 or more. Using linear interpolation with these endpoints, the alternate APC-specific nationwide 80th percentile charge to Medicare APC payment amount ratio is then computed, based on the Medicare APC payment amount.

(D) *APC categories for the purpose of establishing 80th percentile to median factors.* For the purpose of the statistical methodology set forth in paragraph (e)(3)(i) of this section, APCs are assigned to the following APC categories:

- (1) Radiology.
- (2) Drugs.
- (3) Office, Home, and Urgent Care Visits.
- (4) Cardiovascular.
- (5) Emergency Room Visits.
- (6) Outpatient Psychiatry, Alcohol and Drug Abuse.
- (7) Pathology.
- (8) Surgery.
- (9) Allergy Immunotherapy, Allergy Testing, Immunizations, and Therapeutic Injections.

(10) All APCs not assigned to any of the above groups.

(ii) *Nationwide 80th percentile charges for CPT/HCPCS codes which do not have APC assignments.* Nationwide 80th percentile billed charge levels by CPT/HCPCS code are computed from the outpatient facility component of the

MDR database, from the MedStat claims database, and from the outpatient facility component of the Medicare Standard Analytical File 5 percent Sample. If the MDR database contains sufficient data to provide a statistically credible 80th percentile charge, then that result is retained for this purpose. If the MDR database does not provide a statistically credible 80th percentile charge, then the result from the MedStat database is retained for this purpose, provided it is statistically credible. If neither the MDR nor the MedStat databases provide statistically credible results, then the nationwide 80th percentile billed charge computed from the 5 percent Sample data is retained for this purpose. The nationwide 80th percentile charges retained from each of these data sources are trended forward to the effective time period for the charges, as set forth in paragraph (e)(3)(iii) of this section.

(iii) *Trending forward.* The charges for each CPT/HCPCS code, obtained as described in paragraph (e)(3) of this section, are trended forward based on changes to the outpatient hospital services component of the CPI-U. Actual CPI-U changes are used from the time period of the source data through the latest available month as of the time the calculations are performed. The three-month average annual trend rate as of the latest available month is then held constant to the midpoint of the calendar year in which the charges are primarily expected to be used. The projected total CPI-U change so obtained is then applied to the 80th percentile charges, as described in paragraph (e)(3) of this section.

(4) *Geographic area adjustment factors.* For each geographic area, a single adjustment factor is calculated as the arithmetic average of the outpatient geographic area adjustment factor published in the Milliman USA, Inc., Health Cost Guidelines (this factor constitutes the ratio of the level of charges for each geographic area to the nationwide level of charges), and a geographic area adjustment factor developed from the MDR database (see paragraph (a)(3) of this section for Data Sources). The MDR-based geographic area adjustment factors are calculated as the ratio of the CPT/HCPCS code weighted average charge level for each geographic area to the nationwide CPT/HCPCS code weighted average charge level.

(5) *Multiple surgical procedures.* When multiple surgical procedures are performed during the same outpatient encounter by a provider or provider team as indicated by multiple surgical CPT/HCPCS procedure codes, then the