

one of the burn DRGs in MDC 22 (Burns). If the hospital performs a tracheostomy, the case is assigned to DRG 482 (Tracheostomy for Face, Mouth, and Neck Diagnoses) or DRG 483 (Tracheostomy with Mechanical Ventilation 96 + Hours, Except Face, Mouth and Neck Diagnoses).

In the August 1, 2002 final rule, we modified DRGs 482 and 483 to recognize code 96.72 (Continuous mechanical ventilation for 96 consecutive hours or more) for the first time in the DRG assignment (67 FR 49996). We noted that many patients assigned to DRG 483 did not have code 96.72 recorded. We believed this was due, in part, to the limited number of procedure codes (six) that can be submitted on the current billing form, and the fact that code 96.72 did not affect the DRG assignment (prior to FY 2003). We stated that we would give future consideration to further modifying DRGs 482 and 483 based on the presence of code 96.72. We anticipate that cases of patients receiving 96 or more hours of continuous mechanical ventilation are more expensive than other tracheostomy patients. Once code 96.72 is reported more frequently, we will be better able to assess the need for future revisions to DRGs 482 and 483.

To assess the payment for burn patients on mechanical ventilation when the hospital did not perform the tracheostomy, we analyzed data on cases reporting both code 96.72 and diagnosis code V44.0 (Tracheostomy status). We had hoped that these cases would show patients on long-term ventilation who were admitted to the hospital with a tracheostomy in place. Our data did not include any cases reported in any of the burn DRGs with codes 96.72 and V44.0. We then analyzed data on the frequency of cases reporting code 96.72 along with diagnosis code V46.1 (Respirator dependence). We found only 5 of these cases in the burn DRGs. With so few cases reporting code 96.72, it is difficult for us to determine the effect of long-term ventilation on reimbursement for burn cases.

All hospitals, including those that treat burn patients, are encouraged to increase the reporting of code 96.72 for patients who are on continuous mechanical ventilation for 96 or more hours. With better data, we would be able to determine how best to make any future DRG modification for all patients on long-term mechanical ventilation.

c. *Multiple Level Spinal Fusion.* We received a comment recommending the establishment of new DRGs that would differentiate between the number of

levels of vertebrae involved in a spinal fusion procedure. The commenter noted that the ICD-9-CM Coordination and Maintenance Committee discussed adding a new series of codes to identify multiple levels of spinal fusions at its December 6, 2002 meeting.

The following codes were approved by the Committee, effective for October 1, 2003, and are listed in Table 6B in the Addendum to this proposed rule:

- 81.62, Fusion or refusion of 2-3 vertebrae
- 81.63, Fusion or refusion of 4-8 vertebrae
- 81.64, Fusion or refusion of 9 or more vertebrae

The commenter conducted an analysis to support redefining the spinal fusion DRGs using these new ICD-9-CM codes. Using the CMS FY 2001 Standard Analytical File data for physicians and hospitals as the basis for its analysis, the commenter linked a 5-percent sample of hospital spinal fusion cases with the corresponding physician claims. Because there were no ICD-9-CM codes to identify multiple level fusions in 2001, multiple level fusions were identified using Current Procedural Terminology (CPT) codes on the physician claims.

The analysis found that increasing the levels fused from 1 to 2 levels to 3 or more levels increased the mean standardized charges by 38 percent for lumbar/thoracic fusions, and by 47 percent for cervical fusions. The commenter then recommended redefining the spinal fusion DRGs to differentiate between 1 to 2 level spinal fusions and multilevel spinal fusions.

The following current spinal fusion DRGs separate cases based on whether or not a CC is present: DRG 497 (Spinal Fusion Except Cervical With CC) and DRG 498 (Spinal Fusion Except Cervical Without CC); and DRG 519 (Cervical Spinal Fusion With CC) and DRG 520 (Cervical Spinal Fusion Without CC). The difference in charges associated with the current CC-split is only slightly greater than the difference attributable to the number of levels fused as found by the commenter's analysis. Therefore, at this time, we are not proposing to redefine these DRGs to differentiate on the basis of the number of levels fused.

We note that adopting the commenter's recommendation would necessitate adjusting the DRG relative weights using non-MedPAR data, because Medicare claims data with the new ICD-9-CM codes will not be available until the FY 2003 MedPAR file. Although we considered this possibility, we believe the more prudent course, given that the current DRG structure actually appears to

differentiate appropriately among these cases, is to wait until sufficient data with the new multilevel spinal fusion codes are available before making a final determination on whether multilevel spinal fusions should be incorporated into the DRG structure.

d. *Heart Assist System Implant.*

During the comment period for the FY 2003 IPPS proposed rule on which the FY 2003 IPPS final rule was based, we received a suggestion that we develop a new heart transplant DRG entitled "Heart Transplant with Left Ventricular Assist Device (LVAD)." The commenter stated that, because a great number of LVAD cases remain inpatients until heart transplant occurs, there is a disparity in costs between heart transplant patients who receive LVADs during the stay and those who do not. Cases in which heart transplantation occurs during the hospitalization are assigned to DRG 103 (Heart Transplant). Therefore, the costs of LVAD cases are included in the DRG relative weight for DRG 103. However, we noted that we would continue to monitor these types of cases.

When we reviewed the FY 2002 MedPAR data, we identified only 21 cases in DRG 103 that listed a procedure code that would indicate the use of an LVAD. We do not believe this is a sufficient number of cases to support creation of an additional DRG. Therefore, we are not proposing a change to the structure of either DRG 103 or DRG 525 at this time.

e. *Drug-Eluting Stents.* In the August 1, 2002 final rule, we created two new temporary DRGs to reflect cases involving the insertion of a drug-eluting coronary artery stent as signified by the presence of code 36.07 (Insertion of drug-eluting coronary artery stent): DRG 526 (Percutaneous Cardiovascular Procedure With Drug-Eluting Stent With AMI); and DRG 527 (Percutaneous Cardiovascular Procedure With Drug-Eluting Stent Without AMI). We expect that when claims data are available that reflect the use of these stents, we will combine drug-eluting stent cases with other cases in DRGs 516 and 517.

In the absence of MedPAR data reflecting the use of drug-eluting stents, it was necessary to undertake several calculations to establish the FY 2003 DRG relative weights for these two new DRGs. First, based on prices where drug-eluting stents are currently being used and the average price of currently available stents, we calculated a price differential of approximately \$1,200. Assuming average hospital charge markups for this technology (based on weighted average cost-to-charge ratios), the anticipated charge differential