

Important Update on Kidney Transplant MS-DRGs

The Advancing American Kidney Health initiative has challenged the kidney transplant community to double the number of kidneys available for transplant by 2030 through strategies such as broadening acceptance criteria of organs with higher risk¹

Patients who receive kidney transplants from expanded criteria donors or accept organs with high KDPI frequently have more medical comorbidities and may often require additional care and resources^{2,3}

A retrospective study was conducted to evaluate the prevalence, characteristics, and resource implications of major complications and comorbidities (MCCs)²



Single center



N=260 patients undergoing primary kidney transplant



October 2015-2019

Increased complexity of care for patients with MCCs was associated with:

Longer

time on dialysis before transplant Longer

cold ischemia times

Higher

incidence of DGF

Longer

hospital IOS

compared with patients without MCCs

Inclusion of additional MS-DRGs for kidney transplants may more accurately reflect the complexity of transplantation and the patients who require this procedure

In October 2020, two new kidney transplant MS-DRGs were introduced to address the complexity of diagnosis and care for kidney transplant recipients^{2,4}



MS-DRG 650 Kidney transplant with hemodialysis with MCC⁴



MS-DRG 651 Kidney transplant with hemodialysis without MCC4



MS-DRG 652 Kidney transplant. This code was retained for kidney transplant recipients without hemodialysis and is now included in the additional ESRD payments^{4,5}

Kidney transplant MS-DRGs 650 and 651 for patients on hemodialysis reflect higher patient acuity than MS-DRG 652 for those not on hemodialysis^{4,5}

Important Information: Sanofi recommends that you consult with your payers, reimbursement specialists, and/or legal counsel regarding coding, coverage, and reimbursement matters.

DGF, delayed graft function; ESRD, end-stage renal disease; KDPI, Kidney Donor Profile Index; LOS, length of stay; MS-DRGs, Medicare Severity Diagnosis Related Groups.

References: 1. US Department of Health and Human Services. Advancing American kidney health. https://aspe.hhs.gov/sites/default/files/private/pdf/262046/ AdvancingAmericanKidneyHealth.pdf. Accessed January 17, 2024. 2. Schwantes IR, et al. Clin Transplant. 2021;35(1):e14068. doi: 10.1111/ctr.14068. 3. Brennan D. Clinical documentation improvement at UIHC. https://medicine.uiowa.edu/facultyaffairs/sites/medicine.uiowa.edu.facultyaffairs/files/wysiwyg_uploads/Clinical Documentation Improvement at UIHC.pdf. Accessed December 4, 2023. 4. Zavala E, et al. Am J Transplant. 2022;22(suppl 3):173. American Transplant Congress 2022 abstract 591. 5. Healthcare Financial Management Association. Final rule summary: fiscal year 2021 Medicare hospital inpatient prospective payment system and long-term care hospital prospective payment system final rule. www.hfma.org/wp-content/uploads/2022/10/fy21-inpatient-prospective-payment-system-final-rule-summary.pdf. Accessed December 4, 2023.

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2021 CMS MEDPAR Data for Kidney Transplant MS-DRGs¹

MS-DRG	MS-DRG Descriptor	Total Inpatient Stays (N=12,225)*	Percentage of Inpatient Stays per MS-DRG,%*	GMLOS, days*
650	Kidney transplant with hemodialysis with MCC	3,080	25.2	7.4
651	Kidney transplant with hemodialysis without MCC	1,232	10.1	6.8
652	Kidney transplant	7,913	64.7	5.1

- FY2021 MEDPAR contains the first full-year report following the new kidney transplant MS-DRGs^{2,3}
- The new MS-DRGs were associated with an increased length of stay, which may be indicative of the complexity of care for kidney transplant recipients 1.4

MS-DRGs 650 and 651 correspond to patients who receive dialysis during the inpatient stay and after the date of transplant³

- >> ICD-10-PCS procedure codes identifying the performance of hemodialysis should be documented⁵
- Refer to the resources below for more information

MS-DRG 650 corresponds to patients who experience MCCs³

- There is a wide range of relevant MCCs, including diagnoses of varying acuity and severity^{6,7}
- Refer to the resources below for more information



Resources for additional information about MS-DRGs

- Centers for Medicare & Medicaid Services CMS.gov
- Healthcare Financial Management Association hfma.org
- The Medicare Payment Advisory Commission <u>medpac.gov</u>
- Sanofi Market Access team transplant@sanofi.com

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CMS, Centers for Medicare & Medicaid Services; FY, fiscal year; GMLOS, geometric mean length of stay; ICD-10-PCS, International Statistical Classification of Diseases, Tenth Revision, Procedure Coding System; MCC, major complication and comorbidity; MEDPAR, Medicare Provider Analysis and Review; MS-DRGs, Medicare Severity Diagnosis Related Groups.

* Based on 2021 MEDPAR analysis.1

References: 1. Data on file. sanofi-aventis U.S. LLC; 2023. 2. Zavala E, et al. Am J Transplant. 2022;22(suppl 3):173. American Transplant Congress 2022 abstract 591. 3. Healthcare Financial Management Association. Final rule summary: fiscal year 2021 Medicare hospital inpatient prospective payment system and long-term care hospital prospective payment system final rule. www.hfma.org/wp-content/uploads/2022/10/fy21-inpatient-prospective-payment-system-final-rule-summary.pdf. Accessed December 4, 2023. 4. Schwantes IR, et al. Clin Transplant. 2021;35(1):e14068. doi: 10.1111/ctr.14068. 5. Medical Management Plus Inc. IPPS FY 2021 proposed rule: MS-DRG proposals. https://www.mmplusinc.com/kb-articles/ipps-fy-2021-proposed-rule-ms-drg-proposals. June 2, 2020. Accessed January 3, 2024. 6. Centers for Medicare & Medicaid Services. ICD-10-CM/PCS MS-DRG v37.2 definitions manual: appendix C complications or comorbidities exclusion list. https://www.cms.gov/icd10m/version372-fullcode-cms/fullcode_cms/P0031.html. Accessed December 21, 2023. 7. Centers for Medicare & Medicaid Services. Defining the Medicare Severity Diagnosis Related Groups (MS-DRGs), version 37.0. http://www.cms.gov/ICD10Manual/version37-fullcode-cms/fullcode_cms/Defining_the_Medicare_Severity_Diagnosis_Related_Groups_(MS-DRGs).pdf. Published October 2019. Accessed January 17, 2024.

