

**ESRD MEDICAL EVIDENCE REPORT
 MEDICARE ENTITLEMENT & PATIENT REGISTRATION
 CMS 2728 FORM**

Summary of CMS Criteria to Determine Eligibility for the ESRD Program

GUIDANCE

K/DOQI guideline - Initiation of Renal Replacement Therapy (RRT) is determined by both the glomerular filtration rate (GFR) and the presence of uremic symptoms.

CMS mandate – Appropriateness of RRT must be reviewed to safeguard the Medicare Trust.

Network Medical Review Boards (MRBs) will review providers (facilities and physicians) with greater than 10% of incident patients having a GFR that is more than 2 standard deviations from the mean of all incident patients.

**THE NEW 2728 ALGORITHM FOR GFR
 AT INITIATION OF RENAL REPLACEMENT THERAPY**

- For adult (age > 18) patients, use the Modified MDRD formula
 - For dialysis patients, most will have GFR < 15 ml/min/1.73m²
 - For transplant patients, most will have GFR < 20 ml/min/1.73m²
- For pediatric (age ≤ 18) patients, use the Schwartz formula
 - For dialysis and transplant patients, most will have GFR < 20 ml/min/1.73m²
- Eliminates need for creatinine and urea clearance and BUN fields on 2728

The Modified MDRD Formula For Adults

- Based on formula for GFR used in Modification of Diet in Renal Disease study; Eliminates serum albumin and BUN in original formula; High correlation with GFR from iothalamate
- Estimated GFR (ml/min/1.73m²) = 186 * (Creatinine)^{-1.154} * age^{-0.203} * (0.742 if female) * (1.212 if African-American)

The Schwartz Formula For Children

- Introduced in 1980's to estimate GFR in children from serum creatinine and height; more widely used by pediatricians than Counahan-Barratt formula
- Correlates with inulin clearance over 5 – 180 ml/min/1.73m² range
- GFR (ml/min/1.73m²) = k * Ht(cm)/sCr
 Where k=0.45 (age < 1.5)
 k=0.55 (1.5 ≤ age < 13 or if Female)
 k=0.70 (age ≥ 13 and if Male)

GFR VALUES (2005-2009 Incident Patients)

	Adult	Pediatric
National Mean (Dialysis)	10.91	13.14
National Mean (Transplant)	13.19	18.44
Review Threshold (Mean +2 Standard Deviations)	25.15	35.42

MRB REVIEW TRIGGERS:

> 10% incident patients with:

GFR >25.15 ml/min/1.73m² (adult) or

GFR >35.42 ml/min/1.73m² (pediatric)

Questions? Call your local ESRD Network Office.