

**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 (2001 Incident Patients)

	Adult	Pediatric
Mean	9.56	13.14
Standard Deviation (SD)	7.57	10.88
2 Standard Deviations	15.15	21.77
Mean +2 SD	24.71	34.91

MRB REVIEW TRIGGERS:

> 10% incident patients with:

GFR >25 ml/min/1.73m² (adult) or

GFR >35 ml/min/1.73m² (pediatric)

Questions? Email jdeane@nw11.esrd.net