

C.N. is a 64-year-old Caucasian female (height: 165 cm, weight: 91 kg, BSA: 2 m²) with medical history of cirrhosis, malnutrition, hypertension, COPD, alcoholism and hemiplegia from a stroke. C.N. is admitted for shortness of breath (COPD vs. pneumonia) and is started immediately on vancomycin and piperacillin-tazobactam. She is also started on prednisone 60 mg daily. She was recently discharged from a 32 day hospital stay. She has not smoked in 10 years and has normal thyroid function.

	Day 1 Value	Day 2 Value
SCr (mg/dL)	0.3	0.3
CysC (mg/L)	1.3	1.6
CKD-EPI eGFR _{creatinine} (ml/min/1.73 m ²)	121	121
eCrCl (using adjusted body weight)	207	207
CKD-EPI eGFR _{creatinine-cysC} (ml/min/1.73 m ²)	83	72
CKD-EPI eGFR _{cysC} (ml/min/1.73 m ²)	50	38
UOP (ml/kg/hr)	1	1

What are reasons to suspect that the low serum creatinine may overestimate kidney function?

Low muscle mass from hemiplegia, recent prolonged hospitalization, malnutrition from chronic alcoholism

Day 1: Which biomarker should be used for vancomycin dosing?

- Higher target trough attainment of vancomycin with use of CKD-EPI eGFR_{creatinine-cysC} versus creatinine-based equations has been observed[29]. Recall that eGFR_{creatinine-cysC} should be expressed in ml/min for drug dosing

$$\circ \quad \frac{83 \frac{\text{ml}}{\text{min}}}{1.73 \text{ m}^2} \times 2 \text{ m}^2 = 96 \text{ ml/min}$$

Day 2: Your hospital recommends dose adjustment of piperacillin-tazobactam to 2.25 g every 6 hours at eCrCl 40 ml/min. Since her eGFR_{cysC} is 38 ml/min/1.73 m², should you dose adjust?

There are multiple reasons that it would be inappropriate to dose adjust in this scenario:

- It is inappropriate to routinely apply eGFR_{cysC} to drug dosing thresholds that were developed for creatinine-based equations. Instead, specific cysC-based nomograms should be used
- Other measures of kidney function, such as UOP and SCr, have stayed stable. CysC has increased by 0.3 mg/ml which is expected from high-dose steroids. Therefore, the decline in CKD-EPI eGFR_{cysC} may be independent of underlying kidney function
- Like with the vancomycin example, the eGFR_{cysC} should be expressed in ml/min, which would be 44 ml/min. 44 ml/min would not require dose adjustments using a eCrCl dosing threshold cutoff of 40 ml/min

Abbreviations: BSA, Body Surface Area; COPD, Chronic Obstructive Pulmonary Disease; CKD-EPI, Chronic Kidney Disease Epidemiology Collaboration; CysC, Cystatin C; eCrCl, Estimated Creatinine Clearance; eGFR, Estimated Glomerular Filtration Rate; SCr, Serum Creatinine; UOP, Urine Output.

Patient Case Example

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