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 m²)	121	121
eCrCl (using adjusted body weight)	207	207
CKD-EPI eGFR$_{creatinine-cysC}$ (ml/min/1.73 m²)	83	72
CKD-EPI eGFR$_{cysC}$ (ml/min/1.73 m²)	50	38
UOP (ml/kg/hr)	1	1

<u>What are reasons to suspect that the low serum creatinine may overestimate kidney function?</u>
Low muscle mass from hemiplegia, recent prolonged hospitalization, malnutrition from chronic alcoholism

<u>Day 1: Which biomarker should be used for vancomycin dosing?</u>
- 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

  - $\frac{83 \frac{ml}{min}}{1.73 \ m^2}$ x 2 m² = 96 ml/min

<u>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?</u>
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
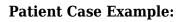- Other measures of kidney function, such as UOP and SCr, have stayed stable. CysC has increased by 0.3 mg/ml which is expected from high-dose steroids. Therefore, the decline in CKD-EPI eGFR$_{cysC}$ may be independent of underlying kidney function
- Like with the vancomycin example, the eGFR$_{cysC}$ 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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Patient Case Example: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Patient Case Example : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Patient Case Example : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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