

Indigo color urine in hemodialysis patient

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A 35-year-old man with chronic kidney disease (CKD) secondary to neurogenic bladder on long-term indwelling Foley's catheter was noted to have indigo-colored urine in the bag [Figure 1]. There were no symptoms suggestive of urinary tract infection. Urine routine, microscopy and culture were sent. Microscopic examination of the urine sample revealed 10-12 leukocytes/hpf and leukocyte esterase was positive. Urine culture showed the growth of *Pseudomonas aeruginosa*. The patient was started on oral ciprofloxacin in renal-modified doses and Foley's catheter was changed. He was treated for 7 days and repeat urine culture was sterile with normal-colored urine on his next hemodialysis session.

Urinary tract infection with microbes like *Providencia stuartii*, *Providencia rettgeri*, *Klebsiella pneumoniae*, *Proteus mirabilis*, *Escherichia coli*, *Morganella morganii*, and *Pseudomonas aeruginosa* can produce the enzyme



Figure 1: Indigo color urine

indoxyl phosphatase. This converts indoxyl sulfate in the urine into indirubin and indigo-colored metabolites.^[1] Our case highlights this association for the first time in a hemodialysis patient. Nephrologists and dialysis unit staff should be aware of this entity while managing patients on long-term indwelling Foley's catheters.

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