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Renal Abscess and Endogenous Endophthalmitis due to High Virulent Hypermucoviscous Klebsiella pneumoniae

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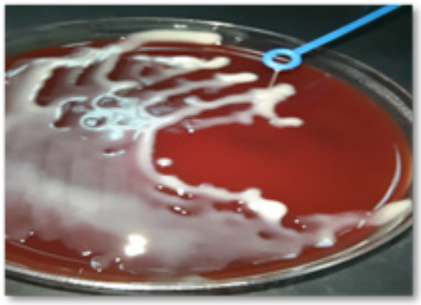
Endogenous endophthalmitis (EE) caused by hypervirulent Klebsiella pneumoniae (HVKP) is an emerging infectious disease associated with very poor visual outcome and life threatening consequences if it is not managed in a timely fashion. Unlike liver abscess, renal abscess is an uncommon source of HVKP causing endogenous endophthalmitis. Most HVKP strains were considered a highly susceptible. Recently, emerging antibiotic resistance has been reported.

Case Summary: A 55-years-old-diabetic presented as a case of endophthalmitis. The isolated KP displayed hypermucoviscosity as determined by a positive string test and was multidrug-resistant. Upon further workup, multiple renal abscesses were found in the left kidney that appeared to be the source of her ocular condition. This patient underwent evisceration of the left eye.

Conclusion: To our knowledge this is the first known case of EE caused by a multidrug-resistant HVKP strain due to renal abscess. Early diagnosis and treatment are essential to avoid vision and life threating consequences. Thus, the ophthalmologist must have a high index of suspicion for EE in high-risk patients and must be alert to the emerging entity of multidrug resistance HVKP strain in the community.



Biography

Dareen khawjah , a senior ophthalmology resident at western program , Saudi Arabia , a teaching assistant at King Abdulaziz University Hospital .intrested in research and education. She publishes many articles in reputed journals.