

PATTERN OF MICROBIOLOGY CULTURES BILIARY STENTS IN PATIENTS UNDERGOING PANCREATODUODENECTOMY(PD)

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Routine use of biliary drainage with stents before pancreaticoduodenectomy (PD) remains controversial. Stents have been shown to increase the rate of septic complications after surgery. This observational study assessed the patterns of bacterial cultures of stents retrieved during surgery, their sensitivities with commonly used antibiotics and also cultures of any wound or organ space infections. From the period of December 2014 to May 2018 a total of 161 patients were considered amenable for resection at Shaukat Khanum Memorial Cancer Hospital and Research Center (SKMCH&RC). Pre-operative stenting was performed in 127 patients. 122 patients underwent PD whereas a de-functioning bypass procedure was performed in 28 patients, while 11 patients were deemed unresectable. Out of these 122 patients who had PD, 98 patients were pre-operatively stented. Stents were retrieved from 81 patients. Cultures of stents showed *E. coli* to be the most common bacteria (69.7%) followed by enterococcus (32.5%) and *Klebsiella* (23.6%). 55.6% patients had poly-microbial infection. *Candida* was isolated from a single patient while one patient had no growth of any microorganism on stent tip cultures. Antibiotic sensitivities showed that 57% cultures were sensitive to piperacillin/tazobactam group while 85.7% were sensitive to carbapenem group. Wound-related complications were seen in around 45% patients. Cultures from wounds showed concordance with the cultures obtained from stents in majority of the cases. Conclusion: Patients who were stented preoperatively have high incidence of poly-microbial postoperative infections. Combination of drugs can be used prophylactically in early postoperative period to counter varied spectrum of antibiotic sensitivities and resistance. Stents should be sent for cultures in all patients undergoing PD after pre-operative biliary stenting. Wound cultures should be obtained.

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