

Supplementary Table 1 : Incidence of different germs in bile samples collected during PD with pre-operative biliary drainage in the period 2010-2014

Germ	n	%
Enterococcus faecalis	29	48.3
Escherichia coli	16	26.7
Klebsiella pneumoniae	9	15.0
Hafnia alvei	8	13.3
Streptococcus anginosus	8	13.3
Enterobacter cloacae complex	7	11.7
Enterococcus sp	6	10.0
Candida Albicans	5	8.3
Entero Faecium	5	8.3
Klebsiella oxytoca	3	5.0
Streptococcus sp	3	5.0
Enterobacter aerogenes	2	3.3
Enterococcus durans	2	3.3
Prevotella buccae	2	3.3
Streptococcus sanguinis	2	3.3
Others	12	20.0

Supplementary Table 2 : Incidence of different germs in bile samples collected during PD with pre-operative biliary drainage in the period 2015-2019

Germ	n	%
Enterococcus faecalis	100	62.5
Escherichia coli	69	43.1
Enterococcus faecium	44	27.5
Enterobacter cloacae complex	33	20.6
Candida Albicans	31	19.4
Klebsiella pneumoniae	21	13.1
Hafnia alvei	19	11.9
Streptococcus anginosus	17	10.6
Klebsiella oxytoca	17	10.6
Citrobacter freundii	14	8.8
Pseudomonas aeruginosa	10	6.3
Enterococcus avium	7	4.4
Enterococcus durans	7	4.4
Citrobacter koseri	5	3.1
Proteus vulgaris	5	3.1
Serratia marcescens	5	3.1
Serratia marcescens	4	2.5
Raoultella ornithinolytica	4	2.5
Enterococcus gallinarum	3	1.9
Enterococcus hirae	3	1.9
Acinetobacter baumannii	2	1.3
Bacteroides fragilis	2	1.3
Candida kefyr	2	1.3
Clostridium perfringens	2	1.3
Enterococcus casseliflavus	2	1.3
Haemophilus parainfluenzae	2	1.3
Klebsiella variicola	2	1.3
Prevotella spp	2	1.3
Staphylococcus aureus	2	1.3
Streptococcus constellatus	2	1.3
Others	22	13.8