**SUPPLEMENTARY MATERIAL**

Figure 1. Types of microorganisms cultured among different specimens: bladder urine culture (n= 22), renal pelvic urine culture (n= 26), stone fragmentation urine culture (n= 17), stone culture (n= 30)



Table 1. Univariate analysis of risk factors for positive stone culture

|  |  |
| --- | --- |
| **VARIABLES** | **p-value** |
| *Patient related* - age - Body mass index- Charlson Comorbidity Index- gender - diabetes- previous surgery - pre-operative nephrostomy tube - pre-operative stent  | 0,90,0520,40,0550,0650,20,0360,8 |
| *Stone related* - maximum stone diameter - Hounsfield Units- multiple stones - staghorn calculi - stone composition (infectious stones) | 0,0020,40,2<0,0010,03 |
| *Surgery related* - surgery (PCNL) - multiple tracts  | 0,0010,8 |
| *Microbiological variables*- previous urinary tract infection- positive bladder urine culture - positive renal pelvic urine culture - positive stone fragmentation urine culture | <0,001<0,001<0,001<0,001 |

Table 2. Univariate analysis of risk factors for SIRS

|  |  |
| --- | --- |
| **VARIABLES** | **p-value** |
| *Patient related* - age - Body mass index - Charlson Comorbidity Index- gender - diabetes- previous surgery - pre-operative nephrostomy tube - pre-operative stent  | 0,080,850,590,9460,0590,5340,2290,712 |
| *Stone related* - maximum stone diameter - Hounsfield Units- multiple stones - staghorn calculi - stone composition (infectious stones) | 0,0040,0270,3360,030,03 |
| *Surgery related* - surgery (PCNL) - operative time - intraoperative stone-free status- multiple tracts - blood transfusion | 0,0010,0150,050,020,015 |
| *Microbiological variables*- previous urinary tract infection- positive bladder urine culture - positive renal pelvic urine culture - positive stone fragmentation urine culture- positive stone culture- multi-drug resistant bacteria on stone culture | 0,0530,080,0010,0040,0040,4 |