Supplement 1. Echocardiographic results.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variables | Total IE cases2005 – 2021n=270 | IE Non-Survivorsn=67 | IE Survivorsn=203 | p=value |
| TTE | 270 (100) | 67 (100) | 203 (100) | N/A |
| ТТЕ + ТOЕ | 97 (35.9) | 11 (16.4) | 86 (42.4) | 0.000\* |
| Valve location, n (%) |  |  |  |  |
|  АV | 121 (44.8) | 28 (41.8) | 93 (45.8) | 0.568\* |
|  MV | 74 (27.4) | 17 (25.4) | 58 (28.6) | 0.612\* |
|  TV | 26 (9.6) | 5 (7.5) | 21 (1p0.3) | 0.500\* |
|  PV | 1 (0.4) | 1 (1.5) | 0 (0.0) | 0.080\* |
| Bivalve IE | 45 (16.7) | 14 (20.8) | 31 (15.3) | 0.287\* |
|  АV - MV  | 37 (13.7) | 10 (14.9) | 27 (13.3) | 0.741\* |
|  АV - TV | 4 (1.5) | 3 (4.5) | 1 (0.5) | 0.019\* |
|  MV - TV | 4 (1.5) | 1 (1.5) | 3 (1.5) | 1\* |
| CDRIE | 2 (0.74) | 2 (3.0) | 0 (0) | - |
| Vegetations, n (%) | 226 (83.7) | 56 (83.6) | 180 (83.7) | 0.985\* |
|  < 10 mm | 153 (56.7) | 37 (55.2) | 116 (57.1) | 0.786\* |
|  10-15 mm | 38 (14.1) | 9 (13.4) | 29 (14.3) | 0.854\* |
|  > 15 mm | 35 (13.0) | 10 (14.9) | 25 (12.3) | 0.583\* |
| Perivalvular abscess, n (%) | 8 (3.0) | 1 (1.5) | 7 (3.4) | 0.424\* |
| Chordal rupture, n (%) | 5 (3.3) | 1 (1.5) | 4 (1.97) | 0.805\* |
| EF %. медиана (IQR) | 60 (54-68) | 55 (51-66) | 62 (55-68) | 0.001Ϯ |
| Valve obstruction, n (%) | 32 (11.9) | 10 (14.9) | 22 (10.8) | 0.369\* |
| Aortic regurgitation, n (%) | 146 (54) | 39 (58.2) | 107 (52.7) | 0.433\* |
|  Mild - moderate | 79 (29.3) | 25 (37.3) | 54 (26.6) | 0.095\* |
|  Severe | 67 (24.8) | 14 (20.9) | 53 (26.1) | 0.393\* |
| Mitral regurgitation, n (%) | 115 (42.6) | 33 (49.3) | 82 (40.4) | 0.202\* |
|  Mild - moderate | 64 (23.7) | 18 (26.9) | 46 (22.6) | 0.473\* |
|  Severe | 51 (18.9) | 15 (22.4) | 36 (17.8) | 0.405\* |
| Tricuspid regurgitation, n (%) | 36 (13.3) | 8 (11,9) | 28 (13.7) | 0.704\* |
|  Mild - moderate | 16 (6.0) | 1 (1.5) | 15 (7.3) | 0.080\* |
|  Severe | 20 (7.4) | 7 (10.5) | 13 (6.4) | 0.267\* |

\*z-test; †Mann-Whitney U Test; ; TTE—transthoracic echocardiography; TOE—transesophageal echocardiography; AV—aortic valve; MV—mitral valve; TV—tricuspid valve; PV- pulmonic valve; CDRIE—cardiac device related IE; EF—ejection fraction.

Supplement 2. Microbiological agent.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Microbiological agent, n (%) | Total IE cases2005 – 2021n=270 | IE Non survivorsn-67 | Survivorsn-203 | p-value\* |
|  | *Negative hemoculture* | 111 (41.1) | 24 (35.8) | 87 (42.8) | 0.271 |
|  | *Staphylococci spp.* | 89 (33.0) | 21 (31.3) | 68 (33.5) | 0.740 |
|  |  *Staphylococcus aureus* | 51 (18.9) | 12 (17.9) | 39 (19.2) | 0.814 |
|  |  *Staphylococcus CoNS* | 38 (14.1) | 9 (13.4) | 29 (14.3) | 0.854 |
|  | *Streptococci spp.* | 21 (7.8) | 3 (4.5) | 18 (7.0) | 0.468 |
|  |  *Streptococcus viridans* | 9 (3.0) | 2 (3.0) | 7 (3.0) | 1.000 |
|  |  *Streptococcus beta-hemolyticus* | 2 (0.4) | 0 (0.0) | 2 (0.5) | 0.562 |
|  |  *Streptococcus alfa hemolyticus* | 6 (2.2) | 1 (1.5) | 5 (2.5) | 0.632 |
|  |  *Streptococci -други* | 4 (1.5) | 0 (0.0) | 4 (2.0) | 0.244 |
|  | *Enterococci spp.* | 25 (9.3) | 8 (11.9) | 17 (8.4) | 0.392 |
|  |  *Enterococcus species*  | 1 (0.4) | 0 (0.0) | 1 (0.5) | 0.562 |
|  |  *Enterococus faecalis* | 23 (8.5) | 8 (11.9) | 15 (7.4) | 0.253 |
|  |  *Enterococcus durans* | 1 (0.4) | 0 (0.0) | 1 (0.5) | 0.562 |
|  | *Gram negative (non-HACEK) spp.* | 19 (7.0) | 10 (14.9) | 9 (4.5) | 0.004 |
|  |  *Pseudomonas aeruginosa* | 2 (0.7) | 1 (1.5) | 1 (0.5) | 0.410 |
|  |  *Escherichia coli* | 9 (3.4) | 5 (7.4) | 4 (2.0) | 0.030 |
|  |  *Enterobacter cloacae* | 1 (0.4) | 0 (0.0) | 1 (0.5) | 0.562 |
|  |  *Klebsiella pneumoniae* | 3 (1.1) | 1 (1.5) | 2 (1.0) | 0.736 |
|  |  *Serratia marcescens* | 4 (1.5) | 3 (4.5) | 1 (0.5) | 0.019 |
|  | *Others* | 5 (1.9) | 2 (3.0) | 3 (1.5) | 0.432 |
|  |  *Candida spp* | 3 (1.1) | 1 (1.5) | 2 (1.0) | 0.736 |
|  |  *Erysipelothix rhusiopathiae* | 1 (0.4) | 0 (0.0) | 1 (0.5) | 0.562 |
|  |  *Brevibacterium casei* | 1 (0.4) | 1 (1.5) | 0 (0.0) | 0.080 |

z – test\*; CoNS—coagulase-negative staphylococcus; non-HACEK- (Hemophilus species, Actinobacillus, Cardiobacterium, Eikenella, or Kingella).