**Supplementary Table 1**:

Population pyramids used for rates standardization

|  |  |  |
| --- | --- | --- |
| Age group | Cohort | European standard 2003 |
| 0 - 4 | 0 | 0.050 |
| 5 - 9 | 0 | 0.055 |
| 10 - 14 | 0.001 | 0.055 |
| 15 - 19 | 0.024 | 0.055 |
| 20 - 24 | 0.045 | 0.060 |
| 25 - 29 | 0.081 | 0.060 |
| 30 - 34 | 0.129 | 0.065 |
| 35 - 39 | 0.145 | 0.070 |
| 40 - 44 | 0.137 | 0.070 |
| 45 - 49 | 0.106 | 0.070 |
| 50 - 54 | 0.093 | 0.070 |
| 55 - 59 | 0.072 | 0.065 |
| 60 - 64 | 0.049 | 0.060 |
| 65 - 69 | 0.042 | 0.055 |
| 70 - 74 | 0.037 | 0.050 |
| 75 - 79 | 0.023 | 0.040 |
| 80 - 84 | 0.014 | 0.025 |
| 85+ | 0.002 | 0.025 |

**Supplementary Table 2**:

Univariate analysis of clinical and demographic characteristics of mortality related to colectomy excluding the 4 hospitals with the highest mortality rates

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SR-ASUC patients undergoing colectomy (n=361) | | **Patients who died** (n=10) | Patients who did not die (n=351) | p |
| **Gender** n (%) | Female =152 (42.1%) | 4 (2.6%) | 148 (97.4%) | 0.580 |
| Male = 209 (57.9%) | 6 (2.9%) | 203 (97.51%) |
| **Age,** n (%) | ≥ 50 years = 94 (26.1%) | 10 (10.6%) | 84 (89.4%) | <0.0001 |
| <50 years =266 (73.9%) | 0 (0%) | 266 (100%) |
| **Extent**, n (%) | Extensive= 300 (83.1%) | 9 (3.0%) | 291 (97.8%) | 0.474 |
| Left colitis=61 (16.9%) | 1 (1.6%) | 60 (98.4%) |
| **First flare**, n (%) | Yes = 96 (26.6%) | 2 (2.1%) | 94 (97.9%) | 0.477 |
| No =265 (73.4%) | 8 (3.0%) | 257 (97.0%) |
| **Medical rescue therapy\***, n (%) | Yes = 220 (60.9%) | 3 (1.4%) | 217 (98.6%) | 0.046 |
| No = 141 (39.1%) | 7 (5.0%) | 134 (95.0%) |
| **Hospital complexity,** n(%) | Secondary = 188 (52.1%) | 8 (4.3%) | 280 (95.7)%) | 0.068 |
| **T**ertiary =173 (47.9%) | 2 (1.2%) | 171 (98.8%) |
| **Time period (years)** , n (%) | 1989 – 2001 =127 (35.2%) | 4 (3.1%) | 123 (96.9%) | 0.492 |
| 2002 – 2014 = 234 (64.8%) | 6 (2.6%) | 228 (97.4%) |
| **Type of surgery**, n (%) | Emergency = 238 (65.9%) | 9 (3.8%) | 222 (96.2%) | 0.093 |
| Elective = 123 (34.1%) | 1 (0.8%) | 122 (99.2%) |
| **Type of colectomy,** n(%) | Open laparotomy=295 (81.7%) | 10 (3.4%) | 285 (96.6%) | 0.129 |
| Laparoscopic = 66 (18.3%) | 0 (0 %) | 66 (100 %) |
| **Indication of colectomy,** n(%) | Complications (megacolon, perforation, etc) n=42 (11.6%) | 2 (4.8%) | 40 (95.2%) | 0.328 |
| Refractoriness to medical treatment n=319 (88.4%) | 8 (2.5%) | 311 (97.5%) |

\* Medical rescue therapy: CyA and / or IFX; χ2 statistics or Fisher exact