Supplementary Material.

TABLE 1. Comorbidities.

	Comorbidities	Total	65-74	75-85	>85	Sig
			84	83	39	
	NO	29	17(20.2%)	9(10.8%)	3(7.7%)	0.097
	Hypertension	123	44(52.4%)	52(62.7%)	27(69.2%)	0.162
	Dyslipidemia	77	29(34.5%)	37(44.6%)	11(28.2%)	0.171
	Diabetes_ Mellitus	37	7(8.3%)	19(22.9%)	11(28.2%)	0.009
	Ischemic heart disease	28	6(7.1%)	15(18.1%)	7(17.9%)	0.081
	Chronic Heart failure	25	12(14.3%)	10(12%)	3(7.7%)	0.581
	Chronic respiratory failure	65	33(39.3%)	33(27.7%)	9(23.1%)	0.123
	Non-hematological cancer	18	11(13.1%)	6(7.2%)	1(2.6%)	0.129
	Hematological cancer	16	5(6%)	5(6%)	6(15.4%)	0.142
	Chronic renal failure	10	6(7.1%)	1(1.2%)	3(7.7%)	0,134
	Immunosuppression	2	1(1.2%)	1(1.2%)	0(0%)	0.790
	Cerebrovascular disease	7	3(3.0%)	3(3.6%)	1(2.6%)	0.950
	Peripheral vascular disease	6	0(0%)	4(4.8%)	2(5.1%)	0.119
	Chronic Enolism	4	2(2.4%)	2(2.4%)	0(0%)	0.621
	Peripheral neuropathy	7	5(6%)	2(2.4%)	0(0%)	0.193
	Central neuropathy	0	0(0%)	0(0%)	0(05)	

TABLE 2. Sepsis and Septic shock mortality by age group.

	65-74 yrs.			75-85 yrs.			> 85 yrs.		
	SEPSIS	**SEPTIC SHOCK**	**Chi Square**	**SEPSIS**	**SEPTIC SHOCK**	**Chi Square**	**SEPSIS**	**SEPTIC SHOCK**	**Chi Square**
28 days.	9 (33%)	15 (26,3%)	p 0.51	7 (46,7%)	21 (31,3%)	p 0. 35	4 (25,0%)	12 (52,2%)	p 0.09
90 days.	10 (37%)	17 (29,8%)	p 0.61	9 (60%)	23 (34,3%)	p 0.13	7 (43,8%)	12 (52,2%)	p 0.60
1 year.	14 (51,9%)	24 (42,1%)	p 0. 40	9 (60%)	29 (43,3%)	p 0.37	9 (56,3%)	13 (56,5%)	p 0.98
TOTAL PATIENTS	**27**	57		15	67		16	23	

TABLE 3. Mortality associated to comorbidities

	Comorbidities		N	28	p	90	p	Año	p
	None	Yes No	29 117	10(34.5%) 57(32.2%)	0.809	11(37.9%) 68(38.4%)	0.960	12(41.4%) 86(48.6%)	0.477
	Hypertension	Yes No	123 83	45(36.6%) 22(26.5%)	0.125	52(42.3%) 27(32.5%)	0.156	61(49.6%) 37(44.6%)	0.482
	Dyslipidemia	Yes No	77 129	18(24.7%) 48(37.2%)	0.057	**23(29.9%)** **56(43.4%)**	**0.049**	31(40.3%) 67(51.9%)	0.104
	Diabetes_Mellitus	Yes No	37 169	13(35.1%) 54(32%)	0.710	14(37.8%) 65(38.5%)	0.944	18(48.6%) 80(47.3%)	0.886
	Ischemic heart disease	Yes No	28 178	10(35.7%) 57(32%)	0.700	12(42.9%) 67(37.6%)	0.600	15(53.6%) 83(46.6%)	0.497
	Chronic Heart failure	Yes No	25 181	**14(56%)** **53(29.3%)**	**0.018**	14(56%) 65(35.9%)	0.053	**18(72%)** **80(44.2%)**	**0.008**
	Chronic respiratory failure	Yes No	65 141	26(40%) 41(29.1%)	0.133	27(41,5%) 52(36.9%)	0.525	34(52,3%) 64(45.5%)	0.358
	Non-hematological cancer	Yes No	18 188	9(50%) 58(30.9%)	0.099	**12(66.7%)** **67(35.6%)**	**0.010**	**14(77.8%)** **84(44.7%)**	**0.005**
	Hematological cancer	Yes No	16 190	6(37.5%) 61(32.1%)	0.660	7(43.8%) 72(37.9%)	0.646	7(43.8%) 91(47.9%)	0.751
	Chronic renal failure	Yes No	10 196	4(40%) 63(32.1%)	0.607	5(50%) 74(37.8%)	0.440	7(70%) 91(46.4%)	0.164
	Immunosuppression	Yes No	2 204	1(50%) 66(32.2%)	0.598	1(50%) 78(38.2%)	0.735	2(100%) 96(47.1%)	0.137
	Cerebrovascular disease	Yes No	7 199	**5(71.4%)** **62(31.2%)**	**0.025**	5(71.4%) 74(37.2%)	0.068	5(71.4%) 93(46.7%)	0.233
	Peripheral vascular disease	Yes No	6 200	2(33.3%) 65(32.5%)	0.966	3(50%) 76(38%)	0.554	4(66.7%) 94(47%)	0.398
	Chronic Enolism	Yes No	4 202	0(0%) 67(33.2%)	0.162	0(0%) 79(39.1%)	0.112	0(0%) 98(48.5%)	0.055
	Peripheral neuropathy	Yes No	7 199	2(28.6%) 65(32.7%)	0.821	2(28.6%) 77(38.7%)	0.590	2(28.6%) 96(48.2%)	0.333
	Central neuropathy	Yes No	0 206	67(32.5%)		79(38.3%)		98(47.6%)	

Table 4. Mortality associated by organ dysfunction

	Dysfunction		**N**	**28 days**	**p**	**90 days**	**p**	**1 year**	**p**
	Respiratory	Yes No	188 18	65(34.6%) 2(11.1%)	0.077	**77(41%)** **2(11.1%)**	**0.025**	93(49.5%) 5(27.8%)	0.130
	Coagulation	Yes No	112 94	**46(41.1%)** **21(22.3%)**	**0.007**	**51(45.5%)** **28(29.8%)**	**0.030**	58(51.8%) 40(42.6%)	0.237
	Liver	Yes No	103 103	**45(43.7%)** **22(21.4%)**	**0.001**	**52(50.5%)** **27(26.2%)**	**0,001**	**64(62.1%)** **34(33%)**	**0.000**
	Cardiovascular	Yes No	202 4	65(32.2%) 2(50%)	0.830	**75(37.1%)** **4(100%)**	**0.041**	94(46.5%) 4(100%)	0.106
	Central Nervous System.	Yes No	56 150	**33(58.9%)** **34(22.7%)**	**0.000**	**37(66.1%)** **42(28%)**	**0.000**	**38(67.9%)** **60(40%)**	**0.001**
	Renal	Yes No	113 93	**46(40.7%)** **21(22.6%)**	**0.009**	**52(46%)** **27(29%)**	**0.019**	**62(54.9%)** **36(38.7%)**	**0.030**

Table 4.1. Mortality associated by organ dysfunction 65-74 yrs.

Dysfunction 65-74 yrs.	N	28 days	p	90 days	p	1 year	p
Respiratory	76	24 (31,6%)	0.98	27 (35.5%)	0.5	37 (48.7%)	**0.05**
Coagulation	44	13 (29.5%)	0.86	15 (34.1%)	0.69	20 (45.5%)	0.97
Liver	42	11 (26.2%)	0.63	13 (31.0%)	0.81	17 (40.5%)	0.39
Cardiovascular	84	24 (28.6%)		27 (32.1%)		38 (45.2%)	
Central Nervous System.	33	10 (30.3%)	0.77	10 (30.3%)	0.77	14 (42.4%)	0.67
Renal	45	9 (20.0%)	0.06	12 (26.7%)	0.25	18 (40%)	0.3

Table 4.2. Mortality associated by organ dysfunction 75-85 yrs.

Dysfunction 75-85 yrs.	N	28 days	p	90 days	p	1 year	p
Respiratory	78	25 (32.1%)	0.71	30 (38.5%)	0.94	36 (46.2%)	0.79
Coagulation	46	16 (34.8%)	0.62	18 (39.1%)	0.90	22 (47.8%)	0.67
Liver	39	13 (33.3%)	0.88	16 (41%)	0.66	19 (48.7%)	0.61
Cardiovascular	83	27 (32.5%)		32 (38.6%)		38 (45.8%)	
Central Nervous System.	17	6 (35.3%)	0.78	6 (35.3%)	0.75	7 (47.0%)	0.67
Renal	48	15 (31.3%)	0.77	19 (39.6%)	0.82	23 (47.9%)	0.64

Table 4.3. Mortality associated by organ dysfunction > 85 yrs

Dysfunction > 85 yrs.	N	28 days	p	90 days	p	1 year	p
Respiratory	34	14 (41.2%)	0.96	16 (47.1%)	0.59	18 (52.9%)	0.25
Coagulation	21	9 (42.9%)	0.80	10 (47.6%)	0.88	12 (57.1%)	0.92
Liver	21	10 (47.6%)	0.36	12 (57.1%)	0.25	13 (61.9%)	0.45
Cardiovascular	35	15 (42.9%)		18 (51.4%)		21 (60%)	
Central Nervous System.	6	3 (50%)	0.63	3 (50%)	0.94	4 (66.7%)	0.58
Renal	21	7 (33.3%)	0.29	9 (42.9%)	0.43	10 (47.6%)	0.23

TABLE 5. Binomial regression of significant variables

	Variables	univariate				multivariate			
		OR	ICL	ICU	sig	OR	ICL	ICU	sig
	Chronic Heart failure	3.25	1.29	8.15	0.012	4.35	1.46	12.94	0.008
	Non- hematological cancer	4.33	1.38	13.66	0.012	4.98	1.30	19.04	0.019
	APACHE	1.07	1.02	1.12	0.002	1.03	0.82	1.28	0.810
	APACHE - AGE	1.07	1.02	1.12	0.003	0.97	0.77	1.22	0.793
	SOFA	1.12	1.01	1.24	0.025	0.88	0.74	1.05	0.150
	SOFA 48 Hours	1.22	1.10	1.35	0.000	1.09	0.90	1.32	0.390
	Acute Kidney Injury	0.34	0.19	0.60	0.000	0.48	0.19	1.18	0.108
	Septic Shock	2.72	1.43	5.17	0.002	1.50	0.62	3.64	0.372
	Chronic respiratory failure	1.97	1.02	3.80	0.044	1.22	0.51	2.94	0.658
	Mechanical ventilation	0.33	0.17	0.62	0.001	0.72	0.29	1.75	0.464
	Hours of mechanical ventilation	1.00	1.00	1.01	0.001	1.00	1.00	1.00	0.972
	Renal replacement therapy	0.31	0.159	0.60	0.000	0.65	0.19	2.26	0.500
	Days of Renal replacement therapy	1.12	1.02	1.23	0.019	0.94	0.81	1.10	0.441
	Number of organ dysfunction	1.53	1.24	1.89	0.000	0.67	0.34	1.32	0.246
	Days of dysfunction	1.06	1.01	1.10	0.012	1.02	0.95	1.09	0.589
	Liver dysfunction	3.33	1.88	5.90	0.000	3.70	1.15	11.88	0.028
	Central Nervous System dysfunction	3.17	1.66	6.06	0.000	3.65	1.07	12.48	0.039
	Kidney dysfunction	1.93	1.10	3.36	0.021	1.15	0.38	3.47	0.801

6.5 Complication definitions

- Peritonitis:
    - o Complicated intra-abdominal infections extend beyond the hollow viscus of origin into the peritoneal space (secondary or terciary/ nosocomial or postoperative))
- Abcess
    - o Presence of an abcess formation in a image diagnostic test
- Haemorraghe
    - o Acute haemorraghe that results in transfusion of more than 2 units or surgery
    - o Massive haemorraghe defined for a blood lost superior at 150 ml in less than 10 minutes or a lost superior to 50% of the blood volume in less than 3 hours
- Respiratory Failure defined as:
    - o Postoperative hypoxemia: Defined as SpO2 <92% at FiO2 0.21. and Requirements for rescue measures: increase in FiO2, CPAP or the need for non-invasive mechanical ventilation (NIMV) or invasive ventilation (IMV).
    - o Respiratory distress syndrome, for the diagnosis the gasometric and radiological criteria of the Berlin definition will be used: Mild: PaO2 / FiO2 <300 mmHg with CPAP of 5 cmH2O and FiO2 0.5. Moderate: PaO2 / FiO2 <200 mmHg with PEEP of 5 cmH2O and FiO2 0.5. Severe: PaO2 / FiO2 <100 mmHg with PEEP of 5 cmH2O and FiO2 0.5. With bilateral interstitial alveolar infiltrate in the chest radiography of recent appearance.
- Pneumonia: Presence of a new pulmonary infiltrate and / or progression of previous pulmonary infiltrates on the chest radiograph plus at least two of the following criteria: - Leukocytosis> 12,000 WBC / mm3 or leukopenia <4000 WBC / mm3. - Fever> 38.5oC or hypothermia <36oC. - Increased secretions with purulent sputum. - Positive bronchial aspirate.
- Cardiovascular Complications: Cardiac failure (CI <2.5 mL / min / m2 or> 2.5 with dobutamine requirements ≥ 5 µg / kg / min). Arrhytmias (Atrial fibrilation, Supraventricular tachycardia, Premature ectopics beats, Ventricular Tachycardia, others)

- Surgical Site Infection: For the diagnosis of the will be followed the criteria of the CDC.

Infection that occurs within the first 30 days and that includes only skin and subcutaneous tissue and the patient has at least one of the following signs:

- Purulent drainage of the superficial incision
- Isolation of microorganisms from the superficial incision
- Surface incision deliberately opened by the surgeon with positive culture or without culture but with at least one of the following signs: pain, heat, swelling, inflammation, redness.
- Diagnosis by the surgeon of surgical wound infection.

- Leakage, Suture dehiscence, defined as: Intraluminal leakage of a surgical connection between two viscera. The luminal content can go well through wound or drainage, or a collection can appear (diagnosed with imaging techniques) causing fever, septicemia, shock
- Other Complications:

Pleural effusion: Chest x-ray with the presence of costophrenic sinus impingement, displacement of adjacent anatomical structures, erasure of the hemidiaphragmatic silhouette in supine decubitus position.

Bronchospasm: Presence of expiratory wheeze treated with bronchodilators.

Pneumothorax: Presence of air in the pleural space without a vascular bed around the pleura. (the thorax Rx will be performed due to the suspicion of aphonia on auscultation)

Cognitive Dysfunction / Postoperative Delirium:

Delirium is an acute and fluctuating condition of the mental state with reduced consciousness and impaired attention following the clinical criteria (DSM-5, ICD 10) and that may appear up to 5 days postoperatively

Cognitive dysfunction defined as memory alteration and postoperative concentration that delays the recovery of the patient and their return to their daily tasks

Acute renal failure (ADQUI):

Stage I: Diuresis < 0,5 mg/Kg (6h) or Cr increase > 0,3 mg/dl. Or GRF decrease >25%

Stage II: Diuresis < 0,5 mg/Kg (12h) o Cr basal x 2 mg/dL or GRF decerease >50%

Stage III: Diuresis < 0,3 mg/Kg (24h) o anuria (12h) o Cr basal x 3 mg/dL, Cr plasma levels > 4 mg/dL or Renal Replacement Therapy., or GRF decrease 75%