

**S3 Table. Characteristics of 1,456 fluid patients in relation to administration of crystalloid or colloid**

Variable	N	Crystalloid			Colloid		
		Yes	No	P Value	Yes	No	P Value
<b>Patient Characteristics</b>							
Age, year, median(IQR)]	1456	64(50,74)	65(55,76)	0.023	64(53,74)	64(50,75)	0.461
Male, %(N)	878	59.2(726)	66.4(152)	0.041	65(256)	58.6(622)	0.027
<b>Number of days in the ICU (N=1455)</b>							
Number of days in ICU median(IQR)]	1455	1(0,6)	3(1,10)	<0.001	2(0,7)	1(0,6)	0.091
Number of days in ICU at survey date =0 day, %(N)	446	33.5(411)	15.4(35)	<0.001	28.5(112)	31.5(334)	0.278
Number of days in ICU at survey date >0 day, %(N)	1009	66.5(816)	84.6(193)		71.5(281)	68.5(728)	
<b>Severity of illness scores in 24 hrs prior to survey date (N=1456)</b>							
APACHE II [median(IQR)]	628	18(12,25)	21(15,26)	0.003	18(12,24)	18(12,25)	0.638
SAPS II [median(IQR)]	233	44(31.2,57)	49(43.5,68.5)	0.177	48.5(34.8,69)	44(31,56.5)	0.143
SAPS III [median(IQR)]	233	52(37,66.5)	65(48.2,72)	0.244	59(48,71)	51(37,66)	0.085
Severity of illness , Low(< median), %(N)	556	39.4(484)	31.4(72)	0.006	37.1(146)	38.6(410)	0.011
Severity of illness , High(>= median), %(N)	593	39(478)	50.2(115)		46.2(182)	38.7(411)	
Severity of illness , Missing, %(N)	307	21.6(265)	18.3(42)		16.8(66)	22.7(241)	
<b>Trauma (N=1453)</b>							
Trauma at hospital admission, Yes, %(N)	142	10.6(130)	5.3(12)	0.013	6.6(26)	10.9(116)	0.014
Traumatic brain injury, Yes, %(N)	37	2.9(35)	0.9(2)	0.083	1(4)	3.1(33)	0.025
<b>Sepsis in 24 hrs prior to survey date (N=1453)</b>							
Sepsis, Yes, %(N)	550	36(441)	47.8(109)	<0.001	43(169)	35.9(381)	0.014
<b>APACHE II chronic health points (CHP) criteria (N=1447), %(N)</b>							
CHP liver criteria, Yes	56	3.3(40)	7.1(16)	0.007	6.2(24)	3.1(32)	0.007
CHP renal criteria, Yes	33	2.3(28)	2.2(5)	0.936	1.8(7)	2.5(26)	0.439
CHP cardiac criteria, Yes	88	5.8(70)	8(18)	0.202	8.2(32)	5.4(56)	0.045
CHP respiratory criteria, Yes	92	5.5(67)	11(25)	0.002	7.6(30)	5.9(62)	0.235
CHP immunocompromised, Yes	157	11(134)	10.2(23)	0.703	11.8(46)	10.6(111)	0.522
<b>Admission Source (N=1455), %(N)</b>							
Operating room after elective surgery	380	26.8(329)	22.3(51)	<0.001	27.4(108)	25.6(272)	0.003
Emergency room	330	24.1(295)	15.3(35)		16.2(64)	25.1(266)	
Hospital floor	252	16.7(205)	20.5(47)		19(75)	16.7(177)	
Transferred from other ICU or hospital	166	10.6(130)	15.7(36)		13.7(54)	10.6(112)	
Operating room after emergency surgery	204	14.4(176)	12.2(28)		12.7(50)	14.5(154)	
Hospital floor after previous ICU stay	123	7.4(91)	14(32)		10.9(43)	7.5(80)	

Summary statistics of continuous variables are presented as median (IQR) with p values of non-parametric test (i.e. Wilcoxon rank-sum test). Summary statistics of categorical variables are presented in proportions with p values of chi<sup>2</sup> test. Categorical variables with ≥ 20% missing values are analysed with missing as separate groups.