

Supplementary Table 1: Worst AKIN stages according to ALF etiology

Worst AKIN	ACM DILI	Non-ACM DILI	Viral	Indeterminate	Other	p-value
AKIN 0	7 (53.8)	7 (21.9)	17 (54.8)	15 (40.5)	3 (14.3)	0.052
AKIN 1/2	2 (15.4)	7 (21.9)	2 (6.5)	7 (18.9)	5 (23.8)	
AKIN 3	4 (30.8)	18 (56.3)	12 (38.7)	15 (40.5)	13 (61.9)	
Total	13	32	31	37	21	

Abbreviations: ACM = acetaminophen, DILI = drug-induced liver injury, AKIN = acute kidney injury network

Supplementary Table 2: Comparison of recent and current data on acute kidney injury in the setting of acute liver failure. Values are given as absolute numbers (percentage) or medians (interquartile ranges). AKIN = Acute kidney injury network (criteria), ELT = emergency liver transplantation, n.a. = not available, RRT = renal replacement therapy,

First Author (date of publication)	Wilkinson (1974)	Leithead (2009)	O’Riordan (2011)	Tuijos (2014)	Hadem (2019)
Patient number	48	308	302	1604	134
Country	England	Scotland	England	USA	Germany
Patients with ALF	48	308	302	1604	134
Patients with ELT included	no	yes	no	yes	yes
Non-acetaminophen etiology (%)	33 (69)	101 (30)	0 (0)	867 (54)	123 (92)
Baseline creatinine (µmol/l)	n.a.	n.a.	n.a.	n.a.	64 (53-79)
AKI definition	Creatinine > 1.8 mg/dl	Creatinine 2-fold ULN	AKIN (creatinine-based only)	AKIN (creatinine-based only)	AKIN (creatinine + urine output)
AKI on admission (%)	n.a.	133 (43)	n.a.	n.a.	54 (40)
AKI during clinical course	38 (79)	208 (67)	239 (79)	1.118 (30)	85 (63)
Worst creatinine (µmol/l)	n.a.	288 (135–392)	n.a.	n.a.	138 (68-245)

Worst urine output (ml/24h)	n.a.	n.a.	n.a.	n.a.	970 (120-2450)
Time to maximum AKIN stage (days)	n.a.	n.a.	n.a.	n.a.	1 (0-4)
AKIN stage 0	10	n.a.	63 (21)	486 (30)	49 (37)
AKIN stage 1/2	n.a.	n.a.	44 (14)	558 (35)	23 (17)
AKIN stage 3	38	n.a.	195 (65)	561 (35)	62 (46)
RRT	n.a.	146 (47)	182 (93)	491 (31)	52 (39)
Long-term RRT	n.a.	n.a.	0 (0)	10 (4)	n.a.
Long-term creatinine	n.a.	n.a.	n.a.	n.a.	76 (63-101)
ELT	n.a.	84 (28)	0 (0)	388 (24)	63 (47)
ELT-free survival	6 (13)	113 (37)	n.a.	776 (48)	31 (23)
Survival in AKIN 0	6 (60)	n.a.	0 (0)	450 (93) [at day 21]	45 (92) [at day 28]
Survival in AKIN 3	0 (0)	n.a.	162 (62) [at day 50]	322 (57) [at day 21]	26 (42) [at day 28]

Supplementary Figure 1: Serum Creatinine before, during, and after the acute phase of ALF.

Scatter dot blot shows baseline creatinine, creatinine at ICU admission, worst creatinine during clinical course and follow-up creatinine (median of 226 [162-282] days after hospital admission). * $p < 0.05$,

*** $p < 0.001$, **** $p < 0.0001$.

