Supplemental Table 1. Search strategy

1. exp Renal Insufficiency, Acute/
2. (acute renal failure$ or acute kidney failure$).tw.
3. (arf or akf).tw.
4. (acute renal insufficiency$ or acute kidney insufficiency$).tw.
5. (acute tubular necrosis or ATN).tw.
6. (acute kidney injur$ or acute renal injur$ or AKI).tw.
7. or/1-6
8. risk.tw
9. injury.tw
10. failure.tw
11. and/8-10
12. rifle.tw
13. kidney disease.tw
14. improving global outcomes.tw
15. and/14-15
16. kdigo.tw
17. or/11-12
18. or/15-16
19. acute kidney injury network.tw
20. or/17-19
21. and/ 7&20

Supplemental Table 2. Harmonization of acute kidney injury (AKI) classification and staging system

Stage	RIFLE	AKIN	KDIGO
Stage 1	*R*isk 1.5 fold ↑serum creatinine	1.5-2.0 fold ↑ serum creatinine	1.5-1.9 fold ↑ serum creatinine
Stage 2	*I*njury 2.0 fold ↑ serum creatinine	>2.0-3.0 fold ↑ serum creatinine	2.0-2.9 fold ↑ serum creatinine
Stage 3	*F*ailure 3.0 fold ↑ serum creatinine	>3.0 fold ↑ serum creatinine	≥3.0 fold ↑ serum creatinine or dialysis

RIFLE, Risk, Injury, Failure, Loss, Endstage; AKIN, Acute Kidney Injury Network; KDIGO, Kidney Disease Improving Global Outcomes

Supplemental Table 3. Characteristics of the 312 studies according to definitions of acute kidney injury

	All studies irrespective of AKI definition	Studies using KDIGO-equivalent serum creatinine-based criteria to define AKI	Studies using other biochemical, urine output, or dialysis requirement-based criteria to define AKI	Studies using administrative diagnosis codes to define AKI
No. studies				
All	312	154	130	28
Adults	269	130	114	25
Children	42	24	15	3
Adults and children	1	0	1	0
No. subjects, median (interquartile range)				
All	1,848 (769-8,639)	1,293 (662-7,594)	1,668 (798-5,068)	33,688 (5,246-562,799)
Adults	2,308 (929-10,751)	2,076 (829-10,518)	2,083 (940-6,033)	39,805 (5,731-681,730)
Children	390 (172-1,128)	253 (146-430)	526 (272-1,128)	2,194 (831-9,903)
Percentage of male subjects, mean (range)				
All	64 (28-100)	63 (28-100)	65 (46-99)	59 (38-98)
Adults	65 (28-100)	65 (28-100)	67 (55-99)	59 (38-98)
Children	54 (46-79)	56 (49-79)	53 (46-59)	55 (53-56)
Age (in years), mean (range)				
Adults	60.0 (23.0-80.3)	60.6 (25.5-80.3)	58.7 (23.0-78.0)	63.7 (43.3-79.2)
Children	4.7 (0.0[§]-13.0)	4.7 (0.0[§]-11.4)	4.9 (0.0[§]-9.1)	5.9 (4.0-9.1)
No. of studies by				
Clinical setting (%)				
Community-acquired	19 (6%)	7 (5%)	8 (6%)	4 (14%)
Critical care	57 (18%)	41 (27%)	15 (11%)	1 (4%)
Cardiac surgery	96 (31%)	42 (27%)	53 (41%)	1 (4%)
Trauma	13 (4%)	4 (3%)	6 (5%)	3(11%)
Heart failure	3 (1%)	1 (1%)	1(1%)	1 (4%)
Hematology/oncology	7 (2%)	3 (2%)	3(2%)	1 (4%)

Nephrotoxins	19 (6%)	4 (3%)	14 (11%)	1 (4%)
Hospital-acquired, unspecified	98 (32%)	52 (34%)	30 (23%)	16 (57%)
Continent (%)				
Australia & New Zealand	10 (3%)	9 (6%)	1 (1%)	0 (0%)
Asia	44 (14%)	21 (14%)	20 (15%)	3 (10%)
Europe	98 (32%)	51 (33%)	46 (35%)	1 (4%)
America	153 (49%)	70 (45%)	59 (45%)	24 (86%)
Africa	2 (1%)	0 (0%)	2 (2%)	0 (0%)
Multiple continents	5 (2%)	3 (2%)	2 (2%)	0 (0%)
World zone[*] (%)				
Australia & New Zealand	10 (3%)	9 (6%)	1 (1%)	0 (0%)
Eastern Asia	26 (8%)	17 (11%)	6 (5%)	3 (10%)
Western Asia	6 (2%)	2 (1%)	4 (3%)	0 (0%)
Southern Asia	8 (3%)	2 (1%)	6 (5%)	0 (0%)
South East Asia	4 (1%)	0 (0%)	4 (3%)	0 (0%)
Eastern Europe	3 (1%)	2 (1%)	1 (1%)	0 (0%)
Western Europe	26 (8%)	15 (10%)	11 (8%)	0 (0%)
Northern Europe	27 (9%)	12 (8%)	14 (11%)	1 (4%)
Southern Europe	35 (11%)	18 (11%)	17 (13%)	0 (0%)
Multi-zone Europe	7 (2%)	4 (3%)	3 (2%)	0 (0%)
North America	142 (45%)	64 (42%)	54 (41%)	24 (86%)
South America	11 (3%)	6 (4%)	5 (3%)	0 (0%)
North Africa	1 (1%)	0 (0%)	1 (1%)	0 (0%)
Western Africa	1 (1%)	0 (0%)	1 (1%)	0 (0%)
Multiple zones	5 (2%)	3 (2%)	2 (2%)	0 (0%)
Latitude (%)				
North	288 (92%)	138 (89%)	122 (93%)	28 (100%)
South	21 (7%)	15 (10%)	6 (5%)	0 (0%)
North and South	3 (1%)	1 (1%)	2 (2%)	0 (0%)
Country income classification [†] (%)				

Low income	2 (1%)	1 (1%)	1 (1%)	0 (0%)
Lower middle income	5 (2%)	1 (1%)	4 (3%)	0 (0%)
Upper middle income	40 (13%)	20 (13%)	18 (14%)	2 (7%)
High income	258 (82%)	130 (84%)	103 (79%)	25 (89%)
Not available	7 (2%)	2 (1%)	4 (3%)	1 (4%)
Country total health expenditure, % of GDP [‡]				
< 5	19 (6%)	8 (5%)	10 (8%)	1 (4%)
5-10	136 (44%)	68 (45%)	63 (48%)	5 (17%)
> 10	150 (48%)	76 (49%)	53 (41%)	21 (75%)
Not available	7 (2%)	2 (1%)	4 (3%)	1 (4%)

AKI denotes acute kidney injury; KDIGO, Kidney Disease Improving Global Outcomes; GDP, gross domestic product; *According to the United Nations geo-scheme classification; [†] According to the World Bank classification of income of countries; [‡] According to the World Health Organization; [§] Newborns.

Supplemental Table 4. Characteristics of the individual studies included in the meta-analysis

Author	Year	Country	Study design	Population	Mean age, years	Men, %	Study setting	Study setting reclassification	Study AKI definition	Study AKI definition reclassification	Total No. patients	No. patients with AKI	No. patients with R or stage-1 AKI	No. patients with I or stage-2 AKI	No. patients with F or stage-3 AKI	No. patients requiring RRT	Newcastle-Ottawa quality score
Slocum (1)	2012	USA	Retrospective	Adults	70.0*	55*	Cardiac catheterization	Nephrotoxins	Increase in sCr by ≥ 0.5 mg/dL or ≥ 25% from baseline	Other clinical definition	47,480	4,308	-	-	-	177	7
Ishikawa (2)	2012	Canada	Retrospective	Adults	61.0	50	Lung resection surgery	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	1,129	67	59	8	0	1	6
Lellouche (3)	2012	Canada	Prospective	Adults	65.3	73	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by > 0.57 mg/dL from baseline	Other clinical definition	3,434	365	-	-	-	92	8
Lamy (4)	2012	UK, Canada, India, China, Argentina	Post-hoc RCT	Adults	67.5	81	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	4,752	1,235	825	306	104	55	8
Chong (5)	2012	Singapore	Retrospective	Adults	65.0	66	Cardiac catheterization	Nephrotoxins	Increase in sCr by ≥ 0.5 mg/dL or ≥ 25% within 48 hours	Other clinical definition	770	88	-	-	-	NR	7
Wu (6)	2012	Taiwan	Prospective	Adults	60.8	67	Surgical intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	10,953	572	151	57	319	572	8
Arnaoutakis (7)	2012	USA	Retrospective	Adults	52.0	82	Left ventricular assist device	Hospital-acquired	Need for RRT	Other clinical definition	1,312	106	-	-	-	106	7
Ried (8)	2012	Germany	Retrospective	Adults	65.7	100	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	3,139	98	-	-	-	62	5
Thakar (9)	2012	USA	Retrospective	Adults	73.8	49	Heart failure	Heart failure	ICD-9-CM diagnosis codes	Administrative coding-based definition	6,535	424	-	-	-	-	7
Bojan (10)	2012	France	Retrospective	Children	0.3	NR	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	958	244	-	-	-	79	8
Selby (11)	2012	UK	Prospective	Adults	80.0*	NR	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	59,296	3,202	1970	638	594	90	4
Amin (12)	2012	USA	Retrospective	Adults	68.9	59	Acute myocardial infarction	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	33,249	7,095	-	-	-	-	8
Wohlauer (13)	2012	USA	Prospective	Adults	37.2	74	Surgical intensive care unit	Critical care	Increase in sCr to ≥ 1.8 mg/dL within 48 hours	Other clinical definition	2,158	154	-	-	-	36	6
Ryden (14)	2012	Sweden	Retrospective	Adults	65.5	80	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	7,594	1,047	918	108	21	-	6
Patel (15)	2012	USA	Prospective	Adults	72.0	68	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	1,139	407	-	-	-	-	6
Kim (16)	2012	USA	Retrospective	Adults	45.5	71	Surgical intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	571	170	-	-	-	-	7
Zhou (17)	2012	China	Retrospective	Adults	59.1	69	Surgical and medical intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	1,036	353	161	77	115	73	6
Parolari (18)	2012	Italy	Retrospective	Adults	65.0	69	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	3,219	288	-	-	-	-	5
Sims (19)	2012	UK	Retrospective	Adults	65.4	74	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	5,701	2,424	-	-	-	183	6

Candela-Toha (20)	2012	Spain	Prospective	Adults	66.1	59	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,103	300	178	77	45	72	6
Mehrotra (21)	2012	USA	Retrospective	Adults	NR	60	Kidney Transplantation	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	27,232	3,066	-	-	-	439	7
Tóth (22)	2012	Hungary	Prospective	Children	1.1	NR	Cardiac surgery	Cardiac surgery	pRIFLE criteria	KDIGO-equivalent sCr-based definition	1,510	481	173	26	282	96	9
Libório (23)	2012	Brazil	Retrospective	Children	5.0	53	Visceral Leishmaniasis	Hospital-acquired	pRIFLE	KDIGO-equivalent sCr-based definition	146	67	45	21	1	-	7
Ried (24)	2012	Germany	Retrospective	Adults	78.0	50	Cardiac surgery	Cardiac surgery	Decrease in eGFR by ≥ 50% or need for dialysis	Other clinical definition	598	36	-	-	-	-	7
Fox (25)	2012	USA	Retrospective	Adults	64.8	65	Acute myocardial infarction	Hospital-acquired	Increase in sCr by 0.3- 0.5 mg/dL (mild), by 0.5-1.0 mg/dL (moderate), or ≥ 1.0 mg/dL (severe)	KDIGO-equivalent sCr-based definition	59,970	9,659	3,919	3,363	2,377	-	8
Stewart (26)	2012	USA	Retrospective	Adults	25.5	98	Burned military casualties	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	692	165	97	36	32	41	7
Garner (27)	2012	UK	Retrospective	Adults	61.0	50	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	2,822	125	95	20	10	-	9
Craig (28)	2012	UK	Retrospective	Adults	34.0	48	Severe acute liver injury	Hospital-acquired	need for RRT	Other clinical definition	663	113	-	-	-	113	7
Colpaert (29)	2012	Belgium	Prospective	Adults	61.4	62	Surgical and medical intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	951	527	172	266	89	55	8
Tolpin (30)	2012	USA	Retrospective	Adults	NR	76	Cardiac surgery	Cardiac surgery	Increase in sCr by ≥ 0.3 mg/dL or ≥ 150% from baseline	KDIGO-equivalent sCr-based definition	3,914	472	-	-	-	-	7
Coca (31)	2012	USA	Prospective	Adults	71.6	68	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	1,159	409	-	-	-	17	8
Wehbe (32)	2012	USA	Retrospective	Adults	53	58	Lung transplantation	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	657	424	309	115		40	7
Pedersen (33)	2012	Denmark	Post-hoc RCT	Children	0.96	55	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	105	57	35	13	9	12	6
Viswanathan (34)	2012	USA	Retrospective	Children	0*	52*	Neonatal intensive care unit	Critical care	Increase in sCr to > 1.5 mg/dL within 72 hours or decrease in urine output to < 1 mL/kg/hour for at least 24 hours	Other clinical definition	472	59	-	-	-	-	6
Blinder (35)	2012	UK	Retrospective	Children	7 days	56	Cardiac surgery	Cardiac surgery	Pediatric modified AKIN	KDIGO-equivalent sCr-based definition	430	225	135	59	31	153	7
Han (36)	2012	Korea	Retrospective	Adults	68	60	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	1,625	827	548	100	179	143	7
Haase (37)	2012	Germany	Retrospective	Adults	66.7	73	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	920	179	179	64	20	40	6
Kavaz (38)	2012	Turkey	Prospective	Children	3.8	58	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	189	63	-	-	-	9	8
Girman (39)	2012	UK	Retrospective	Adults	49.8	49	General Practice	Community-acquired	READ diagnosis code	Administrative coding-based definition	1,914,482	119,966	-	-	-	-	6
Brown (40)	2011	USA	Prospective	Adults	66.2	70	Cardiac surgery	Cardiac surgery	Increase in sCr by by ≥ 0.3 mg/dL or ≥ 50% from baseline or need for RRT	Other clinical definition	4,987	1,723	1,350	242	132	32	9

Jiang (41)	2011	China	Retrospective	Adults	NR	NR	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	524	135	-	-	-	-	0
Stallworth (42)	2011	USA	Retrospective	Children	4.0	53	Sickle cell disease	Hematology/Oncology	ICD-9-CM diagnosis codes	Administrative coding-based definition	2,194	23	-	-	-	-	6
Cartin-Ceba (43)	2011	USA	Retrospective	Adults	62.0	52	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,461	4	1	1	2	1	7
Thakar (44)	2011	USA	Retrospective	Adults	61.7	97	Diabetes	Community acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	3,679	530	466	64		-	9
ACT Investigators (45)	2011	Brazil	Post-hoc RCT	Adults	68.0	61	Post-intravascular angiographic procedure	Nephrotoxins	Increase in sCr by > 25% from baseline within 48-96 hours	Other clinical definition	2,308	289	-	-	-	6	5
Mitchell (46)	2011	USA	Prospective	Adults	47.0	43	Contrast-enhanced computed tomography imaging	Nephrotoxins	Increase in sCr by > 0.5 mg⁄dL or > 25% from baseline within 2-7 days	Other clinical definition	633	70	-	-	-	-	6
Ried (47)	2011	Germany	Retrospective	Adults	78.0	54	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	598	323	196	98	29	36	7
Wu (48)	2011	Taiwan	Prospective	Adults	59.9	60	Major surgery	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	9,425	4,393	2,434	979	745	236	8
Meier(49)	2011	Switzerland	Retrospective	Adults	61.0	55	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	104,272	4,296	1,742	1,578	976	976	7
Lahoti (50)	2011	USA	Retrospective	Adults	59.0	56	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,398	301	144	67	89	56	5
Lu (51)	2011	China	Retrospective	Adults	60.8	65	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	38,734	934	-	-	-	-	0
Liu (52)	2011	USA	Post-hoc RCT	Adults	49.8	54	Acute lung injury	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	1,000	814	541	123	150	-	6
Karkouti (53)	2011	Canada	Retrospective	Adults	62.7	75	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	12,388	256	-	-	-	-	7
Mandelbaum (54)	2011	USA	Retrospective	Adults	65.8	58	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	14,524	8,272	5,595	2,046	631	-	6
Lombardi (55)	2011	Spain	Prospective	Adults	59.0	61	Mechanical ventilation	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	2,783	803	-	-	-	-	7
Barbosa(56)	2011	Brazil	Retrospective	Adults	62.6	33	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 50% or post-operative need for dialysis	Other clinical definition	3,890	266	-	-	-	-	7
Alkandari (57)	2011	Canada	Retrospective	Children	5.8	56	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	2,106	377	206	91	80	30	7
Wi (58)	2011	Korea	Retrospective	Adults	62.7	71.9	Cardiac catherization	Nephrotoxins	Increase in sCr by > 25% or > 0.5 mg/dL within 48 hours	Other clinical definition	1,041	148	-	-	-	-	7
Shlipak (59)	2011	USA	Prospective	Adults	71.0	68	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	1,147	407	-	-	-	-	9
Piccinni (60)	2011	Italy	Prospective	Adults	66.0	59	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	576	379	205	99	75	48	9
Clec'h (61)	2011	France	Prospective	Adults	59.2	61	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	8,639	2,846	1,025	830	991	545	7

Budano (62)	2011	Italy	Prospective	Adults	66.0	73	Cardiac catherization	Nephrotoxins	Increase in sCr by ≥ 25% within 48 hours	Other clinical definition	755	120	-	-	-	-	7
Pannu (63)	2011	Canada	Retrospective	Adults	62.2	49	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	43,008	7,856	5198	489	439	-	8
Türker (64)	2011	Turkey	Retrospective	Children	0.0	54	Intensive care unit	Critical care	Increase in sCr to > 1 mg/dL (for ≥ 33-week gestation) or > 1.3 mg/dL (for < 33-week gestation) within 48 hours of life	Other clinical definition	553	78	-	-	-	-	7
Hwang (65)	2011	Korea	Retrospective	Adults	63.7	69	ST- and non-ST elevation myocardial infarction	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	2,053	602	530	45	27	-	5
Zhong (66)	2011	China	Prospective	Children	8.9	NR	Renal disease	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	95	33	-	-	-	13	5
Cho (67)	2011	Korea	Retrospective	Adults	57.0	71	Unilateral radical nephrectomy for renal cell carcinoma	Hematology/Oncology	RIFLE criteria	KDIGO-equivalent sCr-based definition	519	175	165	8	2	-	6
Pettila (68)	2011	Australia and New Zealand	Prospective	Adults	45.0	47	Influenza (H1N1)	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	628	211	41	56	114	33	8
Grams (69)	2011	USA	Post-hoc RCT	Adults	49.8	54	Acute lung injury	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	1,000	306	181	49	76	89	7
van Kuijk (70)	2011	The Netherlands	Prospective	Adults	67.9	76	Vascular surgery	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,158	120	58	39	23	-	6
Licker (71)	2011	Switzerland	Retrospective	Adults	63.2	68	Lung cancer surgery	Hematology/Oncology	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,345	91	56	33	2	-	5
Choi (72)	2011	Korea	Retrospective	Adults	72.0	40	Hospitalization	Hospital-acquired	ICD-10-CM diagnosis codes	Administrative coding-based definition	1,093,262	1156	-	-	-	-	7
Martin-Loeches (73)	2011	Spain	Prospective	Adults	43.0	55	Intensive care unit (influenza A H1N1)	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	661	118	37	15	66	50	8
Ishani (74)	2011	USA	Retrospective	Adults	65.1	99	Cardiac surgery	Cardiac surgery	Baseline-to-peak sCr increase by 1-24% (class I), 25-49% (class II), 50-99% (class III), or ≥ 100% (class IV)	Other clinical definition	29,388	9,410	5,357	2,719	1,334	-	6
Krawczeski (75)	2011	USA	Prospective	Children	2.1	53	Cardiac surgery	Cardiac surgery	AKIN	KDIGO-equivalent sCr-based definition	373	112	-	-	-	-	7
Pompilio (76)	2011	Italy	Retrospective	Adults	65.0	70	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to 2.0 mg/dL and doubling of baseline pre-operative sCr	Other clinical definition	5,818	457	-	-	-	146	7
Ali (77)	2011	UK	Retrospective	Adults	74.5	54	Outpatient database	Community-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	523,390	474	117	251	194	48	7
Mithani (78)	2011	USA	Retrospective	Adults	66.0	99	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	2,104	495	-	-	-	-	7
Lin (79)	2011	Taiwan	Retrospective	Adults	NR	67	Acute pancreatitis	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	1,734	261	-	-	-	-	8
James (80)	2011	Canada	Retrospective	Adults	63.1	72	Coronary angiography	Nephrotoxins	AKIN criteria	KDIGO-equivalent sCr-based definition	14,782	1,420	1,099	321	-	-	6

Englberger (81)	2011	USA	Retrospective	Adults	67.0	66	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	4,836	1,272	1,141	57	74	96	6
Garzotto (82)	2011	Italy	Prospective	Adults	66.0	59	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	576	379	205	99	75	48	8
Moffett (83)	2011	USA	Retrospective	Children	NR	NR	Hospitalization	Hospital-acquired	pRIFLE criteria	KDIGO-equivalent sCr-based definition	1,660	561	441	117	3	-	5
Bolesta (84)	2011	USA	Retrospective	Adults	67.6	64	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	667	179	-	-	-	9	6
Noyez (85)	2011	The Netherlands	Retrospective	Adults	66.0	71	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to 2.0 mg/dL and doubling of baseline pre-operative sCr	Other clinical definition	995	18	-	-	-	13	6
Huang (86)	2011	Taiwan	Prospective	Adults	65.7	76	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	1,052	183	-	-	-	50	9
Du (87)	2011	USA	Prospective	Children	11.4	50	Pediatric emergency center	Community-acquired	pRIFLE criteria	KDIGO-equivalent sCr-based definition	252	18	12	6	0	-	7
Kimura (88)	2011	Japan	Retrospective	Adults	66.3	67	Cardiac catheterization	Nephrotoxins	AKIN criteria	KDIGO-equivalent sCr-based definition	2,193	81	-	-	-	-	6
de Geus (89)	2011	The Netherlands	Prospective	Adults	58.7	58	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	632	171	67	48	56	28	6
Li (90)	2011	Taiwan	Retrospective	Adults	68.9	82	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	964	186	74	33	79	68	5
Fonseca Ruiz (91)	2011	USA	Retrospective	Adults	52.6	53	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	794	315	110	95	110	39	6
Zappitelli (92)	2011	USA	Retrospective	Children	8.0	51	Aminoglycoside use	Nephrotoxins	AKIN criteria	KDIGO-equivalent sCr-based definition	557	109	69	26	14	-	7
Paden (93)	2011	USA	Retrospective	Children	0.02	50	Extracorporeal membrane oxygenation	Critical care	pRIFLE criteria	KDIGO-equivalent sCr-based definition	378	50	17	15	10	18	5
Englberger (94)	2011	USA	Prospective	Adults	59.0	71	Elective thoracic aortic surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	851	151	107	38	6	18	6
Askenazi (95)	2011	USA	Retrospective	Children	4.6	56	Neonatal intensive care unit	Critical care	ICD-9-CM diagnosis codes	Administrative coding-based definition	9,903	1,040	-	-	-	2,626	7
Ostermann (96)	2011	UK and Germany	Prospective	Adults	NR	NR	Intensive care unit	Critical care	AKIN	KDIGO-equivalent sCr-based definition	41,175	14,576	7,864	1,565	5,147	-	4
Amin (97)	2010	USA	Prospective	Adults	61.3	67	Acute myocardial infarction	Hospital-acquired	Increase in sCr by ≥b0.3 mg/dL from admission value	KDIGO-equivalent sCr-based definition	2098	393	-	-	-	-	8
Mehta (98)	2010	USA	Retrospective	Adults	65.0	69	Cardiac surgery	Cardiac surgery	Baseline-to-post-operative peak sCr increase by > 50% ot > 0.7 mg/dL, or need for de novo dialysis	Other clinical definition	10,415	2,083	-	-	-	-	6
Robert (99)	2010	USA	Prospective	Adults	66.0	71	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	24,747	7,391	5,659	852	880	-	8
James (100)	2010	Canada	Prospective	Adults	48.5	44	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	920,985	6,520	-	-	-	615	7

Vannaphan (101)	2010	Thailand	Retrospective	Adults	27.7	76	Severe malaria	Hospital-acquired	sCr > 3 mg/dL, urine output < 400 mL/day	Other clinical definition	915	195	-	-	-	171	5
Iglesias (102)	2010	USA	Prospective	Adults	49.2	57	Orthotopic liver transplantation	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	688	243	178	45	20	6	9
Silva Júnior (103)	2010	Brazil	Retrospective	Adults	35.0	77	AIDS	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	532	197	96	41	59	-	5
Brown (104)	2010	USA	Prospective	Adults	66.2	70	Cardiac surgery	Cardiac surgery	Increase in sCr by ≥ 0.3 mg/dL or ≥ 50% within 1-7 days	KDIGO-equivalent sCr-based definition	4,987	1,886	-	-	-	-	9
Yende (105)	2010	USA	Retrospective	Adults	67.2	52	Community-acquired pneumonia	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,895	462	188	83	191	-	7
Hennessy (106)	2010	USA	Retrospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	Increase in sCr to > 2.0 mg/dL and 2 times the preoperative sCr value, or pos-operative requirement for dialysis	Other clinical definition	1,287	83	-	-	-	43	6
Fang (107)	2010	China	Retrospective	Adults	NR	56	Hospitalization	Hospital-acquired	Increase in sCr by ≥ 0.3 mg/dL or ≥ 50% within 48 hours	KDIGO-equivalent sCr-based definition	11,923	5,619	4,185	776	658	317	6
D'Onofrio (108)	2010	Italy	Retrospective	Adults	67.9	74	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,488	584	228	248	108	32	7
Coca (109)	2010	USA	Prospective	Adults	66.1	97	Diabetes and non-cardiac surgery	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	35,302	6,257	5,109	760	388	-	6
Lafrance (110)	2010	USA	Retrospective	Adults	62.9	96	Hospitalization	Hospital-acquired	Nadir-to-peak sCr ratio of ≥ 1.5 during hospitalization	KDIGO-equivalent sCr-based definition	1,126,636	140,316	71,593	35,538	33,185	-	7
Ibrahim (111)	2010	UK	Retrospective	Adults	35.1	59	Human immunodeficiency virus infection	Community-acquired	> 40% decrease in eGFR or > 55% increase in sCr	Other clinical definition	2,556	184	-	-	-	83	7
Ingraham (112)	2010	United States, Canada, and Puerto Rico	Retrospective	Adults	46.2	65	Severe trauma	Trauma	ICD-9-CM diagnosis codes	Administrative coding-based definition	94,795	1,222	-	-	-	-	7
Kwon (113)	2010	Korea	Prospective	Adults	63.3*	60*	Hospitalization	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	8,207	96	55	32	9	11	7
Soto (114)	2010	Portugal	Prospective	Adults	59.1	63	Emergency department	Community-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	616	130	100	-	-	6	7
Lahoti (115)	2010	USA	Retrospective	Adults	56.0	52	Acute myelogenous leukemia (induction chemotherapy) or high-risk myelodysplastic syndrome	Hematology/Oncology	RIFLE criteria	KDIGO-equivalent sCr-based definition	537	187	81	51	60	-	6
Bihorac (116)	2010	USA	Prospective	Adults	42.5	62	Trauma	Trauma	RIFLE criteria	KDIGO-equivalent sCr-based definition	982	253	106	79	68	29	8
Fisher (117)	2010	USA	Retrospective	Children	9.1	56	Acute myeloid leukemia	Hematology/Oncology	ICD-9-CM diagnosis codes	Administrative coding-based definition	831	135	-	-	-	-	8
Choi (118)	2010	USA	Retrospective	Adults	44.4	98	Human immunodeficiency virus	Community-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	17,325	3,060	2,453	273		334	8
Szczech (119)	2010	USA	Retrospective	Adults	58.0	51	Hypertensive urgency/emergency	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,566	363	241	65	57	-	7

Akram (120)	2010	UK	Prospective	Adults	66.9	49	Community-acquired pneumonia	Community-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,241	223	130	63	30	30	9
Romano (121)	2010	Italy	Retrospective	Adults	63.2	81	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,034	391	-	-	-	34	7
Shema-Didi (122)	2010	Israel	Retrospective	Adults	57.7	NR	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	25,800	1,943	-	-	-	43	7
Mitter (123)	2010	USA	Prospective	Adults	64.5	67	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	9,461	424	112	52	260	-	7
Argalious (124)	2010	USA	Retrospective	Adults	65.9	68	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	10,648	1,286	-	-	-	182	7
Laoprasopwattana (125)	2010	Thailand	Retrospective	Children	9.1*	56*	Dengue hemorrhagic fever	Hospital-acquired	Increase in sCr to > 2 mg/dL or > 2.0-fold increase from baseline	Other clinical definition	2,893	25	-	-	-	11	8
Matheny (126)	2010	USA	Retrospective	Adults	NR	44	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	26,107	2,078	1,352	726	-	-	6
De Santo (127)	2010	Italy	Prospective	Adults	61.9	53	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,424	606	492	98	16	65	7
Santiago (128)	2010	Spain	Prospective	Children	4.4	60	Intensive care unit	Critical care	pRIFLE criteria	KDIGO-equivalent sCr-based definition	174	73	-	-	-	-	5
Gude (129)	2010	Norway	Retrospective	Adults	50.0	NR	Heart transplantation	Hospital-acquired	Post-operative increase in sCr by ≥ 0.3 mg/dL or ≥ 50% withint 7 days, or need for early post-operative dialysis	KDIGO-equivalent sCr-based definition	585	145	-	-	-	71	5
Morgan (130)	2010	Australia	Prospective	Adults	61.2*	68*	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,379	228	-	-	-	109	3
Jyrala (131)	2010	USA	Retrospective	Adults	66.3	66	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.25 mg/dL regardless of the need for dialysis support	Other clinical definition	885	79	-	-	-	22	7
Ahmed (132)	2010	USA	Retrospective	Adults	78.4	38	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	3,656	371	-	-	-	-	5
Schneider (133)	2010	USA	Retrospective	Children	0.6	54	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	3,396	339	111	101	127	-	8
Lafrance (134)	2010	Canada	Retrospective	Adults	69.8	54	Chronic kidney disease	Community-acquired	Decrease in eGFR by ≥ 25% and > 5 mL/min/ 1.73 m^2 from baseline	Other clinical definition	6,862	3,079	-	-	-	-	8
Uchino (135)	2010	Australia	Retrospective	Adults	67.2	55	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	20,126	3,641	1,837	1,055	749	224	7
Hsu (136)	2010	Taiwan	Prospective	Adults	65.9	77	Hepatocellular carcinoma	Hospital-acquired	Decrease in eGFR to < 60 mL/min/1.73m^2	Other clinical definition	566	134	-	-	-	-	6
Kong (137)	2010	China	Prospective	Adults	65.0	60	Ischemic stroke	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	2,774	21	-	-	-	-	6
Gordon (138)	2010	Canada , Australia, USA	Post-hoc RCT	Adults	60.4	61	Septic shock	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	778	464	106	130	179	247	6
Ferreira (139)	2010	Portugal	Retrospective	Adults	44.0	64	Liver transplantation	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	708	235	119	60	56	73	7

Heise (140)	2010	Germany	Retrospective	Adults	65.2	NR	Cardiac surgery	Cardiac surgery	need for RRT	Other clinical definition	3,508	383	-	-	-	383	8
Hsu (141)	2010	Taiwan	Retrospective	Adults	66.0	77	Hepatocellular carcinoma, transarterial chemoembolization	Nephrotoxins	Increase in sCr by ≥ 50% or ≥ 0.5 mg/dL to 1.5 mg/dL within 7 days	Other clinical definition	591	11	-	-	-	-	7
Thakar (142)	2009	USA	Retrospective	Adults	NR	98	Intensive care unit	Critical care	Increase of serum creatinine by 0.3 mg/dL from baseline	KDIGO-equivalent sCr-based definition	325,395	71,486	57,126	7,934	6,426	3,140	7
Rodrigues (143)	2009	Brazil	Prospective	Adults	57.0	54	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 50% regardless of post-operative dialysis requirement	Other clinical definition	769	78	-	-	-	18	6
Lau (144)	2009	Australia	Prospective	Adults	63.7	65	Acute coronary syndrome	Hospital-acquired	Increase in sCr by > 0.57 mg/dL form baseline	Other clinical definition	3,393	15	-	-	-	-	7
Yan (145)	2009	China	Retrospective	Adults	56.2	96	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	509	167	108	25	34	-	6
Machado (146)	2009	Brazil	Retrospective	Adults	61.0	70	Cardiac surgery	Cardiac surgery	Increase in sCr by ≥ 0.3 mg/dL or ≥ 50% from baseline	KDIGO-equivalent sCr-based definition	817	396	-	-	-	31	5
Li (147)	2009	China	Prospective	Adults	56.6*	62*	Hospitalization	Hospital-acquired	Increase in sCr to > 2.0 mg/dL or ≥ 50%	Other clinical definition	108,744	320	-	-	-	95	8
Slankamenac (148)	2009	Switzerland	Retrospective	Adults	57.2	55	Liver resection	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	569	86	-	-	-	5	7
Wu (149)	2009	Taiwan	Retrospective	Children	7.28	79	Rhabdomyolysis	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	172	15	-	-	-	5	7
Stamou (150)	2009	USA	Retrospective	Adults	62.9	73	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.0 mg/dL and > twice the pre-operative sCr value	Other clinical definition	2,101	151	-	-	-	42	7
Saddadi (151)	2009	Iran	Prospective	Adults	23.0	NR	Hematopoietic cell transplantation	Hematology/Oncology	Doubling of sCr	Other clinical definition	1,693	22	-	-	-	-	7
Cartin-Ceba (152)	2009	USA	Retrospective	Adults	66.0	54	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	11,644	5,738	3,347	1,326	686	1,065	6
Amdur (153)	2009	USA	Retrospective	Adults	70.8	98	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	147,226	21,536	-	-	-	-	8
Nicoara (154)	2009	USA	Retrospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	need for RRT	Other clinical definition	7,339,520	30,033	-	-	-	30,033	5
Soltani (155)	2009	USA	Retrospective	Adults	31.0	NR	Burn	Hospital-acquired	need for RRT	Other clinical definition	3356	33	-	-	-	33	7
Costantini (156)	2009	USA	Retrospective	Adults	45.5	71	Surgical intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	571	170	146	15	9	12	8
De Santo (157)	2009	Italy	Prospective	Adults	64.0	81	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,047	399	342	49	8	36	7
Zappitelli (158)	2009	Canada	Retrospective	Children	2.8	57	Cardiac surgery	Cardiac surgery	pRIFLE criteria	KDIGO-equivalent sCr-based definition	390	140	80	41	19	7	6
Lo (159)	2009	USA	Retrospective	Adults	63.5*	61*	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	562,799	703	-	-	-	703	6
Haider (160)	2009	USA	Retrospective	Adults	48.5	64	Trauma	Trauma	ICD-9-CM diagnosis codes	Administrative coding-based definition	681,730	3,625	-	-	-	-	6
Joannidis (161)	2009	European countries	Prospective	Adults	63.0	61	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based	16,784	4,093	1,077	1,003	1,983	-	7

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Manrique (162)	2009	USA	Retrospective	Children	1.8	51	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	395	80	52	23	4	5	7
Ahmadi (163)	2009	Iran	Retrospective	Adults	58.6	75	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.0 mg/dL	Other clinical definition	13,315	85	-	-	-	-	7
Yuan (164)	2009	China	Retrospective	Adults	34.0	77	Road traffic injury	Trauma	RIFLE criteria	KDIGO-equivalent sCr-based definition	3,945	423	182	121	120	59	7
Abelha (165)	2009	Portugal	Retrospective	Adults	64.0	65	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	1,166	87	-	-	-	-	7
Zacharia (166)	2009	USA	Prospective	Adults	55.1	28	Cerebral aneurysmal subarachnoid hemorrhage	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	787	179	-	-	-	-	8
Hauer (167)	2009	Germany	Prospective	Adults	66.3	57	Cardiac surgery	Cardiac surgery	need for RRT	Other clinical definition	1,574	67	-	-	-	67	7
Metz (168)	2009	USA	Retrospective	Adults	66.2	67	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 50%	KDIGO-equivalent sCr-based definition	2,556	477	-	-	-	43	7
Hsu (169)	2009	USA	Retrospective	Adults	73.3	59	Hospitaliation	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	39,805	1,061	-	-	-	-	9
Hobson (170)	2009	USA	Retrospective	Adults	61.7	34	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,973	1,265	637	386	242	75	7
Bihorac (171)	2009	USA	Retrospective	Adults	57.2	45	Major Surgery	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	10,518	3,326	1,535	928	863	196	8
Kajimoto (172)	2009	Japan	Retrospective	Adults	59.0	85	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 1.0 mg/dL or post-operative dialysis requirement	Other clinical definition	1,183	28	-	-	-	-	8
Antunes (173)	2009	Portugal	Retrospective	adults	60.6	88	Cardiac surgery	Cardiac surgery	Post-operative sCr ≥ 2.1 mg/dL plus an increase in sCcr by ≥ 0.9 mg/dL if baseline sCcr < 2.0 mg/dL; or increase in sCr by ≥ 1.5 mg/dL if baseline sCr ≥ 2.0 mg/dL; or dialysis requirement	Other clinical definition	4,567	256	-	-	-	-	8
Esper (174)	2009	USA	Retrospective	Adults	60.5	48	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	12,500,459	1,000,037	-	-	-	-	8
Kheterpal (175)	2009	USA	Prospective	Adults	53.6	39	General surgery	Hospital-acquired	Increase in sCr to at least 2 mg/dL or dialysis requirement	Other clinical definition	75,952	762	-	-	-	561	8
Tsagalis (176)	2009	Greece	Prospective	Adults	70.4	61	Acute stroke	Hospital-acquired	AKIN criteria	KDIGO-equivalent sCr-based definition	2,155	575	460	62	53	-	6
Georgiou (177)	2009	USA	Retrospective	Adults	NR	78	Trauma	Trauma	ICD-9-CM diagnosis codes	Administrative coding-based definition	36,038	296	-	-	-	-	7
Huffmyer (178)	2009	USA	Retrospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	Decrease in eGFR by 50%	Other clinical definition	2,760	765	-	-	-	74	7
Bagshaw (179)	2009	Canada , USA, Saudi Arabia	Retrospective	Adults	62.5	57	Septic shock	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	4,532	2,917	738	1,332	847	-	7
Ishani (180)	2009	USA	Retrospective	Adults	79.2	39	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	233,803	7,197	-	-	-	-	8
Silva (181)	2009	Brazil	Retrospective	Adults	45.0*	77*	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	829	147	7	32	108	52	7

Lecomte (182)	2008	Belgium	Retrospective	Adults	NR	65	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,050	525	159	21	5	-	6
Ostermann (183)	2008	UK and Germany	Retrospective	Adults	60.9	NR	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	22,303	7,898	4,259	857	2,782	1,847	6
Benedetto (184)	2008	Italy	Prospective	Adults	67.5	84	Cardiac surgery	Cardiac surgery	Post-operative dialysis requirement or post-operative decrease in eGFR by ≥ 50%	Other clinical definition	536	49	-	-	-	23	5
Lopes (185)	2008	Portugal	Retrospective	Adults	58.6	59	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	662	334	140	67	127	79	7
Arora (186)	2008	USA	Retrospective	Adults	65.9	79	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,358	546	537	7	2	-	8
Bagshaw (187)	2008	Australia, New Zealand	Retrospective	Adults	50.1	70	Trauma	Trauma	RIFLE criteria	KDIGO-equivalent sCr-based definition	9,449	1,711	888	681	142	-	7
Bagshaw (187)	2008	Australia, New Zealand	Retrospective	Adults	66.0	59	Non-trauma hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	110,638	41,648	-	-	-	-	8
Roe (188)	2008	UK	Retrospective	Adults	34.6	62	Human immunodeficiency virus infection	Community-acquired	Increase in sCr > 1.36 mg/dL or peak sCr > 150% from baseline	Other clinical definition	2,274	130	-	-	-	33	7
Payen (189)	2008	24 European countries	Prospective	Adults	60.6	62	Sepsis	Hospital-acquired	SOFA renal score (sCr > 3.5 mg/dL or urine output < 500 mL/day)	Other clinical definition	3,147	1,120	-	-	-	278	7
Plötz (190)	2008	The Netherlands	Retrospective	Children	6.1	61	Respiratory failure requiring mechanical ventilation	Hospital-acquired	pRIFLE criteria	KDIGO-equivalent sCr-based definition	103	60	31	22	7	6	6
Nickolas (191)	2008	USA	Prospective	Adults	60.1	51	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	635	30	-	-	-	9	8
Perez Valdivieso (192)	2008	Spain	Prospective	Adults	62.1	71	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	903	644	112	185	347	202	6
Candela-Toha (193)	2008	Spain	Retrospective	Adults	65.9	60	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,780	67	-	-	-	67	7
Pedersen (194)	2008	Denmark	Prospective	Children	0.7	56	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,128	130	-	-	-	130	7
Athappan (195)	2008	India	Prospective	Adults	35.9	55	Snake bite	Hospital-acquired	Increase in sCr by ≥ 50%	KDIGO-equivalent sCr-based definition	1,180	159	-	-	-	72	6
García-Rodríguez (196)	2008	UK	Prospective	adults	61.0	53	Statin use	Community-acquired	Doubling of sCr	Other clinical definition	127,391	14	-	-	-	-	5
García-Rodríguez (197)	2008	Canada	Prospective	adults	63.9	55	Statin use	Community-acquired	Doubling of sCr	Other clinical definition	25,238	17	-	-	-	-	6
Zappitelli (198)	2008	USA	Prospective	Children	6.4	55	Intensive care unit	Critical care	pRIFLE and AKIN criteria	KDIGO-equivalent sCr-based definition	150	56	-	-	-	1	7
Zappitelli (198)	2008	USA	Retrospective	Children	7.8	49	Aminoglycoside use	Nephrotoxins	pRIFLE criteria	KDIGO-equivalent sCr-based definition	254	71	-	-	-	-	7
Bagshaw (199)	2008	Australia	Retrospective	Adults	61.7	59	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	120,123	43,395	19,545	16,370	7,541	-	6
Hsu (200)	2008	USA	Retrospective	Adults	57.3	43	Hospitalization	Hospital-acquired	Need for RRT	Other clinical definition	602,584	1,764	-	-	-	1,764	7
Lassnigg (201)	2008	Austria and Switzerland	Prospective	Adults	63.6	69	Cardiac surgery	Cardiac surgery	AKIN criteria	KDIGO-equivalent sCr-based definition	7,241	597	463	3	131	321	7
Lima (202)	2008	Brazil	Retrospective	Adults	45.0*	77*	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	829	147	7	32	108	52	5

Csaicsich (203)	2008	Austria	Retrospective	children	0.0	NR	Intensive care unit	Critical care	sCr > 1.5 mg/dL and/or oliguria/anuria (urine output < 1 and < 0.5 mL/kg/hour, respectively)	Other clinical definition	359	16	-	-	-	-	6
Roghi (204)	2008	Italy	Prospective	Adults	63.0	78	Percutaneous coronary intervention	Nephrotoxins	Increase in sCr by ≥ 0.5 mg/dL or > 25% from baseline	Other clinical definition	2,860	106	-	-	-	-	6
Daher (205)	2008	Brazil	Retrospective	Adults	45.0*	77*	Infectious	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	722	147	8	32	107	52	7
Bagshaw (206)	2008	Australia and New Zealand	Retrospective	Adults	61.6	60	Intensive care unit	Critical care	AKIN criteria	KDIGO-equivalent sCr-based definition	120,123	44,553	21,741	12,160	10,652	-	6
Mittalhenkle (207)	2008	USA	Prospective	Adults	73.1	42	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	5,731	225	-	-	-	-	8
Schetz (208)	2008	Belgium	Post-hoc RCT	Adults	63.0	67	Intensive care unit	Critical care	Doubling of sCr	Other clinical definition	2,707	516	163	101	63	291	6
Dasta (209)	2008	USA	Retrospective	Adults	69.9*	63*	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 0.5mg/dL	Other clinical definition	3,741	258	138	70	50	9	7
Karkouti (210)	2008	Canada	Retrospective	Adults	65.2	76	Cardiac surgery	Cardiac surgery	Increase in sCr by > 100% or dialysis requirement	Other clinical definition	3,286	173	-	-	-	-	7
Covic (211)	2008	Romania	Retrospective	Adults	66.1	51	Stroke	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	1,090	158	115	33	10	-	7
Bagshaw (212)	2008	Australia and New Zealand	Retrospective	Adults	65.3	60	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	120,123	43,395	19,547	16,344	7,504	-	8
From (213)	2008	USA	Retrospective	Adults	61.0	53	Cardiac catheterization	Nephrotoxins	Post-procedure increase in sCr by ≥ 25% or > 0.5 mg/d: within 7 days	Other clinical definition	11,516	1,343	-	-	-	-	6
Washburn (214)	2008	USA	Prospective	Children	6.5	53	Intensive care unit	Critical care	pRIFLE criteria	KDIGO-equivalent sCr-based definition	137	103	50	28	25	6	7
Iglesias (215)	2008	USA	Retrospective	Adults	80.3	47	Heart failure	Heart failure	Increase in sCr by ≥ 0.3 mg/dL	KDIGO-equivalent sCr-based definition	682	221	-	-	-	-	6
López-Herce (216)	2008	Spain	Prospective	Children	1.9	56	Trans-pyloric enteral nutrition	Hospital-acquired	Increase in sCr to > twice the 95th percentile for age, with or without change in urine output, and/or need for RRT	Other clinical definition	526	53	-	-	-	38	6
Kheterpal (217)	2007	USA	Prospective	Adults	47.1	52	Major noncardiac surgery	Hospital-acquired	Post-operative decrease in calculated creatinine clearance to ≤ 50 ml/min within the 7 days	Other clinical definition	15,102	121	-	-	-	14	8
Perez Valdivieso (218)	2007	Spain	Prospective	Adults	62.4	69	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	668	386	83	109	194	-	7
Eachempati (219)	2007	USA	Prospective	Adults	63.3	60	Intensive care unit	Critical care	Increase in sCr to 2.4 mg/dL	Other clinical definition	8,505	530	-	-	-	104	8
Liu (220)	2007	USA	Post-hoc RCT	Adults	51.8	60	Acute lung injury	Hospital-acquired	Increase in sCr by > 50% within 4 days	KDIGO-equivalent sCr-based definition	876	209	-	-	-	-	7
Thakar (221)	2007	USA	Retrospective	Adults	68.6	70	Cardiac surgery	Cardiac surgery	Post-operative decrease in GFR by ≥ 50% or dialysis requirement	Other clinical definition	31,677	1,863	-	-	-	555	7

Bouzas-Mosquera (222)	2007	Spain	Prospective	Adults	61.0	84	Cardiac catheterization	Nephrotoxins	Post-procedure increase in sCr by ≥ 0.5 mg/dL within 3 days	Other clinical definition	602	72	-	-	-	8	7
Landoni (223)	2007	Italy	Prospective	Adults	64.1	84	Cardiac surgery	Cardiac surgery	Doubling of sCr from baseline	Other clinical definition	3,103	68	-	-	-	24	6
Pedersen (224)	2007	Denmark	Prospective	Children	0.7	56	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,128	130	-	-	-	130	8
Swaminathan (225)	2007	USA	Retrospective	Adults	71.9*	65*	Cardiac surgery	Cardiac surgery	ICD-9-CM diagnosis codes	Administrative coding-based definition	7,339,520	290,023	-	-	-	30,033	7
Del Duca (226)	2007	Canada	Prospective	Adults	65.0	69	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by ≥ 25% within 3 days	Other clinical definition	649	156	-	-	-	27	8
Chawla (227)	2007	USA	Post-hoc RCT	Adults	59.8	57	Severe sepsis	Hospital-acquired	Increase in seCr by ≥ 25% or ≥ 0.3 mg/dL within 7 days	Other clinical definition	547	127	-	-	-	25	7
Cruz (228)	2007	Italy	Prospective	Adults	64.3	62	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	2,164	234	45	82	107	71	7
Zappitelli (229)	2007	USA	Prospective	Children	6.3	54	Intensive care unit	Critical care	pRIFLE criteria	KDIGO-equivalent sCr-based definition	140	106	50	31	25	7	8
Doddakula (230)	2007	Ireland	Retrospective	Adults	63.2	72	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,609	47	-	-	-	47	6
Di Bella (231)	2007	Italy	Prospective	Adults	66.2	69	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,642	22	-	-	-	22	6
Sizzi (232)	2007	Italy	Prospective	Adults	36.1	0	Laparoscopic myomectomy	Hospital-acquired	Need for RRT	Other clinical definition	2,050	1	-	-	-	1	9
Palomba (233)	2007	Brazil	Prospective	Adults	60.1	62	Cardiac surgery	Cardiac surgery	Increase in sCr to > 2.0 mg/dL or by ≥ 50% from baseline	Other clinical definition	603	66	-	-	-	11	6
Ostermann (234)	2007	UK and Germany	Retrospective	Adults	60.5	64	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	41,972	15,019	7,207	4,613	3,199	1,836	5
Brandt (235)	2007	USA	Retrospective	Adults	47.4	74	Trauma	Trauma	Increase in sCr to > 1.5 mg/dL or by > 50%, or by ≥ 0.5 mg/dL	Other clinical definition	1033	246	-	-	-	25	5
Prescott (236)	2007	UK	Prospective	Adults	67.0*	61*	Hospitalization	Hospital-acquired	Need for RRT	Other clinical definition	5,054,800	809	-	-	-	809	8
Newell (237)	2007	USA	Retrospective	Adults	45.2	72	Trauma	Trauma	sCr ≥ 3.5 mg/dL, BUN > 100 mg/dL, or RRT	Other clinical definition	1,543	17	-	-	-	-	6
Thombs (238)	2007	USA	Retrospective	Adults	43.3	73	Burn	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	31,338	117	-	-	-	-	6
Akcan-Arikan (239)	2007	USA	Prospective	Children	6.4	55	Intensive care unit	Critical care	pRIFLE criteria	KDIGO-equivalent sCr-based definition	150	123	60	32	31	11	6
Ali (240)	2007	UK	Retrospective	Adults	76.0*	54*	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	5,321	474	105	233	136	37	7
Feldman (241)	2007	USA	Retrospective	Adults	64.7	66	Percutaneous coronary intervention	Nephrotoxins	Increase in sCr to ≥ 2.5 mg/dL and/or dialysis requirement	Other clinical definition	47,020	47	-	-	-	-	6
Hingorani (242)	2007	USA	Retrospective	Children & Adults	38.5	47	Hematopoietic cell transplant	Hematology/Oncology	Increase in sCr to > 2.0 mg/dL (in men), > 1.8 mg/dL (in women), > 1.0 mg/dL (in children age 2–16 years), or > 0.6 mg/dL (in children age < 2 years), or doubling of serum creatinine in the first 100 days after transplantation	Other clinical definition	1,635	332	-	-	-	-	5

Chittineni (243)	2007	USA	Retrospective	Adults	77.6	45	Decompensated congestive heart failure	Heart failure	Increase in sCr by ≥ 0.5 mg/dL from baseline	Other clinical definition	509	107	-	-	-	-	5
Bailey (244)	2007	Canada	Prospective	Children	6.0	46	Intensive care unit	Critical care	Doubling of baseline sCr	Other clinical definition	985	44	-	-	-	7	6
Sakr (245)	2007	European countries	Prospective	Adults	61.0	62	Intensive care unit	Critical care	Need for RRT	Other clinical definition	3,147	115	-	-	-	115	7
Bányász (246)	2006	Hungary	Retrospective	Children	0.0	32	Low-birth weight	Critical care	BUN> 40 mg/dL or sCr > 1 mg/dL	Other clinical definition	328	41	-	-	-	-	7
Prakash (247)	2006	India	Prospective	Adults	44.9	57	Intenisve care unit	Critical care	Increase in sCr by ≥ 0.5 mg/dL (if baseline sCr < 1.5 mg/dL), or by ≥ 1.0 mg/dL (if baseline sCr 1.5-5.0 mg/dL)	Other clinical definition	1,215	46	-	-	-	25	7
Charytan (248)	2006	USA	Prospective	Adults	66.8	74	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr by > 50%, or need for RRT	Other clinical definition	1,117	31	-	-	-	9	8
Plurad (249)	2006	USA	Retrospective	Adults	35.4	84	Emergency department hypotension with post-traumatic	Trauma	Peak sCr > 2.0 mg/dL	Other clinical definition	2,574	213	-	-	-	28	7
Boyle (250)	2006	USA	Prospective	Adults	56.9	80	Cardiac Transplantation	Hospital-acquired	Need for RRT	Other clinical definition	756	44	-	-	-	44	7
Schneider (251)	2006	Canada	Retrospective	Adults	78.1*	46*	NSAID use	Community-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	121,722	4,228	-	-	-	-	7
Hein (252)	2006	Germany	Retrospective	Adults	67.0	68	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	2,683	254	-	-	-	254	6
Sharma (253)	2006	USA	Retrospective	Adults	50.0*	55*	Laparoscopic gastric bariatric surgery	Hospital-acquired	Increase in sCr to > 1.4 mg/dL with an increase in sCr by > 0.3 mg/dL from baseline within 7 days	Other clinical definition	1,800	42	-	-	-	6	5
Vachvanichsanong (254)	2006	Thailand	Retrospective	Children	7.6*	56*	Hospitalization	Hospital-acquired	Increase in sCr > 2.0 mg/dL or doubling of sCr	Other clinical definition	60,160	311	-	-	-	55	7
Karkouti (255)	2006	Canada	Prospective	Adults	64.0	64	Cardiac surgery	Cardiac surgery	Increase in baseline-to-peak post-operative sCr by > 2.0-fold within 7 days, or dialysis requirement	Other clinical definition	655	114	-	-	-	-	8
Mahajan (256)	2006	India	Retrospective	Adults	66.4*	71*	Aged ≥60 years	Community-acquired	Increase in sCr to > 2 mg/dL or by ≥ 25% if CKD present	Other clinical definition	929	454	-	-	-	152	6
Heringlake (257)	2006	Germany	Prospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	29,623	4,562	2,667	1,481	592	-	6
Ahlström (258)	2006	Finland	Prospective	Adults	63.4	NR	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	658	342	168	100	74	47	5
Mathur (259)	2006	India	Retrospective	Children	0.0	NR	Neonatal Sepsis	Hospital-acquired	BUN >20 mg/dL on two separate occasions at least one day apart	Other clinical definition	200	52	-	-	-	-	5
Black (260)	2006	UK	Prospective	Adults	70.9	68	Angiography	Nephrotoxins	Post-operative increase in sCr by > 50%	Other clinical definition	1,559	90	-	-	-	16	6
Uchino (261)	2006	Australia	Retrospective	Adults	63.7	55	Hospitalization	Hospital-acquired	RIFLE criteria	KDIGO-equivalent sCr-based definition	20,126	3,623	1,831	1,047	745	-	5

Hoste (262)	2006	USA	Retrospective	Adults	60.6	52	Intensive care unit	Critical care	RIFLE criteria	KDIGO-equivalent sCr-based definition	5,383	3,617	670	1,436	1,511	219	7
Junge (263)	2006	Germany	Retrospective	Adults	53.7*	55*	Liver transplantation	Hospital-acquired	Decrease in calculated GFR by > 50% or by a doubled serum creatinine above 2.5 mg/dL	Other clinical definition	1,352	162	-	-	-	52	4
Wald (264)	2006	USA	Retrospective	Adults	72.4	80	Endovascular aneurysmal repair	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	6,516	439	-	-	-	56	7
Xue (265)	2006	USA	Retrospective	Adults	73.8	43	Hospitalization	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	5,403,015	127,614	-	-	-	19,014	8
Chan (266)	2006	Canada	Retrospective	Adults	67.1	NR	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	9,721	255	-	-	-	255	8
Noyez (267)	2006	The Netherlands	Prospective	Adults	64.2	78	Cardiac surgery	Cardiac surgery	Increase in sCr to ≥ 1.7 mg/dL or dialysis	Other clinical definition	627	15	-	-	-	-	7
Beaver (268)	2006	USA	Retrospective	Adults	62.1	64	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	940	36	-	-	-	36	7
Wyatt (269)	2006	USA	Retrospective	Adults	43.4	62	Human immunodeficiency virus infection	Community-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	25,114	1,516	-	-	-	-	7
Kuitunen (270)	2006	Finland	Prospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	RIFLE criteria	KDIGO-equivalent sCr-based definition	813	156	-	-	-	26	7
Wijeysundera (271)	2006	Canada	Prospective	Adults	62.0	74	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	10,751	137	-	-	-	137	8
Landoni (272)	2006	Italy	Retrospective	Adults	61.1	69	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	7,846	126	-	-	-	126	8
Bah (273)	2006	Guinea	Retrospective	Adults	44.0	60	Hospitalization	Hospital-acquired	Need for RRT	Other clinical definition	606	21	-	-	-	21	4
Gamborgi (274)	2006	Brazil	Retrospective	Adults	49.0*	62*	Hospitalization (contact with Lonomia oblique)	Hospital-acquired	sCr ≥ 1.5 mg/dL with no prior history of kidney disease	Other clinical definition	2,067	39	-	-	-	11	7
Conen (275)	2006	Switzerland	Retrospective	Adults	64.2	74	Percutaneous coronary intervention	Nephrotoxins	Increase in sCr by ≥ 25% from baseline	Other clinical definition	1,383	139	-	-	-	-	7
Bahar (276)	2005	Turkey	Retrospective	Adults	48.7	72	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	14,437	168	-	-	-	168	8
Ranucci (277)	2005	Italy	Prospective	Adults	67.5	78	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	1,048	28	-	-	-	28	5
Bagshaw (278)	2005	Canada	Prospective	Adults	64.9	62	Intensive care unit	Critical care	Need for RRT	Other clinical definition	5,693	240	-	-	-	240	8
Ciesla (279)	2005	USA	Prospective	Adults	37.5	73	Trauma	Trauma	Increase in sCr to > 1.8 mg/dl and absence of previous renal illness	Other clinical definition	1,344	168	-	-	-	-	7
Cataldi (280)	2005	Italy	Retrospective	Children	0.0	59	Preterm birth	Critical care	Increase in sCr to > 1.3 (< 33 weeks gestation) or > 1 mg/dL (> 33 week gestation) ± oliguria (urine output < 1 mL/kg/hour)	Other clinical definition	172	71	-	-	-	-	7
Kincaid (281)	2005	USA	Retrospective	Adults	62.2	68	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.0 mg/dL within 3 days	Other clinical definition	1,209	42	-	-	-	24	7
Baskin (282)	2005	Turkey	Prospective	Children	0.25	66	Cardiac surgery	Cardiac surgery	Increase in s Cr to > 1.2 mg/dL and/or decrease in urine output to < 0.5 mL/kg/hour	Other clinical definition	64	21	-	-	-	-	7
Hollenbeck (283)	2005	USA	Prospective	Adults	65.5	99	Radical cystectomy	Hospital-acquired	Need for RRT	Other clinical definition	2,538	20	-	-	-	20	6
Carter (284)	2005	USA	Retrospective	Adults	NR	86	Heat illness	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based	5,246	78	-	-	-	-	6

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Uchino (285)	2005	Asia, European, USA, Canada, Australia	Prospective	Adults	67.0	63.6	Intensive care unit	Critical care	Oliguria (urine output < 200 mL in 12 hours) and/or marked azotemia (BUN > 84 mg/dL)	Other clinical definition	29,269	1,738	-	-	-	1,260	5
Kubal (286)	2005	UK	Retrospective	Adults	64.4	80.6	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	6033	61	-	-	-	61	7
Franceschini (287)	2005	USA	Prospective	adults	40.0	68	Human immunodeficiency virus infection	Community-acquired	Increase in sCr by 0.5 mg/dl (if baseline sCr < 2.0 mg/dL), 1.0 mg/dL (if baseline sCr 2.0-4.9 mg/dL), or 1.5 mg/dL (if baseline sCr ≥ 5.0 mg/dL)	Other clinical definition	754	71	-	-	-	5	8
Huerta (288)	2005	UK	Retrospective	Adults	NR	NR	Outpatient	Community-acquired	Bun > 47.6 mg/dL, Cr > 1.7 mg/dL	Other clinical definition	386,916	103	-	-	-	-	6
Gaudino (289)	2005	Italy	Prospective	Adults	61.1	75	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	6,542	69	-	-	-	69	8
Conlon (290)	2005	USA	Prospective	Adults	65.1	66	Cardiac surgery	Cardiac surgery	rise in serum creatinine of 1 mg/dL above baseline postoperatively.	Other clinical definition	798	82	-	-	-	3	7
Thakar (291)	2005	USA	Prospective	Adults	NR	70	Cardiac surgery	Cardiac surgery	30% or greater decline in postoperative GFR not requiring dialysis	Other clinical definition	31,677	4,986	-	-	-	555	7
Ostermann (292)	2005	UK and Germany	Retrospective	Adults	60.5	64	Intensive care unit	Critical care	BUN > 22 mg/dL and sCr > 1.35 mg/dL and/or urine output < 800 mL/24 hours or 200 mL/6 hours	Other clinical definition	41,972	7,522	-	-	-	1747	6
Karkouti (293)	2005	Canada	Prospective	Adults	62.0	75	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	9,080	134	-	-	-	134	7
Chu (294)	2005	Hong Kong	Retrospective	Adults	39.0	NR	Severe acute respiratory distress syndrome	Hospital-acquired	Increase in sCr by ≥ 30% or to > 1.8 mg/dL	Other clinical definition	536	36	-	-	-	10	7
Bell (295)	2005	Sweden	Retrospective	Adults	NR	70*	Medical intensive care unit	Critical care	Need for RRT	Other clinical definition	8,152	207	-	-	-	207	7
Khilji (296)	2004	Pakistan	Retrospective	Adults	NR	NR	Cardiac surgery	Cardiac surgery	sCr > 1.6 mg/dL	Other clinical definition	500	137	-	-	-	-	7
Miraoui (297)	2004	Tunisia	Retrospective	Adults	56.0	NR	Intensive care unit	Critical care	BUN > 84 mg/dL or sCr > 2 mg/dL or cr clearance < 50 ml/min	Other clinical definition	923	95	-	-	-	-	7
Wyatt (298)	2004	USA	Retrospective	Adults	51.7	67	Non-renal solid organ transplantation	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	519	130	-	-	-	42	6
Srinivasan (299)	2004	UK	Retrospective	Adults	65.2	77	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.26 mg/dL or need for dialysis	Other clinical definition	951	52	-	-	-	-	8
Mariani (300)	2004	Italy	Retrospective	Adults	63.0	85	Cardiac surgery	Cardiac surgery	Need for RRT	Other clinical definition	569	12	-	-	-	12	6
Bove (301)	2004	Italy	Prospective	Adults	60.2	67	Cardiac surgery	Cardiac surgery	100% increase in sCr	Other clinical definition	5,068	171	-	-	-	94	7
Collins (302)	2004	USA	Retrospective	Adults	61.1	67	Acute type A aortic dissection	Cardiac surgery	Need for RRT	Other clinical definition	617	119	-	-	-	119	6
Agras (303)	2004	Turkey	Retrospective	Children	0.0*	49*	Neonatal	Hospital-acquired	sCr > 1.5 mg/dL	Other clinical definition	1,311	45	-	-	-	10	6

Moran (304)	2004	USA	Retrospective	Adults	57.0	NR	Free tissue transfer in setting of concomitant renal disease	Hospital-acquired	ICD-9-CM diagnosis codes	Administrative coding-based definition	1,053	3	-	-	-	-	5
Brown (305)	2004	USA	Retrospective	Adults	37.0	81	Trauma	Trauma	Peak sCr > 2 mg/dL	Other clinical definition	2,083	217	-	-	-	97	6
Paramesh (306)	2004	USA	Retrospective	Adults	NR	NR	Orthotopic liver transplantation	Hospital-acquired	Need for RRT	Other clinical definition	1,602	350	-	-	-	350	6
Mueller (307)	2004	Switzerland	Prospective	Adults	64.3	74	Percutaneous coronary intervention	Nephrotoxins	Post-procedure increase in sCr by ≥ 25% within 48 hours	Other clinical definition	1,383	139	-	-	-	2	6
Stallwood (308)	2004	UK	Retrospective	Adults	64.5	81	Cardiac surgery	Cardiac surgery	Post-operative increase in sCr to > 2.26 mg/dL or need for RRT	Other clinical definition	2,199	53	-	-	-	19	6
Esteban (309)	2004	USA, Canada, South America, European	Prospective	Adults	66.0	62	Mechanical ventilation	Critical care	Increase in sCr to > 2 mg/dL, or sCr doubling (if preexisting CKD), or need for RRT	Other clinical definition	4,118	830	-	-	-	-	7
Michael (310)	2004	USA	Prospective	Children	13.0*	54*	Stem cell transplantation	Hematology/Oncology	Doubling of sCr	Other clinical definition	272	29	-	-	-	14	7

NR denotes not reported; sCr, serum creatinine; RRT, renal replacement therapy; CKD, chronic kidney disease; NSAID, non-steroidal anti-inflammatory drug; ICD, international classification of diseases; CM, clinical modification; AKI, acute kidney injury; RIFLE, Risk, Injury, Failure, Loss, Endstage; pRIFLE, pediatric RIFLE; AKIN, Acute Kidney Injury Network; KDIGO, Kidney Disease Improving Global Outcomes; * Values refer to patients with AKI and not the entire cohort.

Supplemental References (Supplemental Table 4)

1. Slocum NK, Grossman PM, Moscucci M, et al.: The changing definition of contrast-induced nephropathy and its clinical implications: insights from the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2). Am Heart J 163: 829-834, 2012
2. Ishikawa S, Griesdale DE and Lohser J: Acute kidney injury after lung resection surgery: incidence and perioperative risk factors. Anesth Analg 114: 1256-1262, 2012
3. Lellouche F, Dionne S, Simard S, Bussieres J and Dagenais F: High tidal volumes in mechanically ventilated patients increase organ dysfunction after cardiac surgery. Anesthesiology 116: 1072-1082, 2012
4. Lamy A, Devereaux PJ, Prabhakaran D, et al.: Off-pump or on-pump coronary-artery bypass grafting at 30 days. N Engl J Med 366: 1489-1497, 2012
5. Chong E, Shen L, Poh KK and Tan HC: Risk scoring system for prediction of contrast-induced nephropathy in patients with pre-existing renal impairment undergoing percutaneous coronary intervention. Singapore Med J 53: 164-169, 2012
6. Wu VC, Lai CF, Shiao CC, et al.: Effect of diuretic use on 30-day postdialysis mortality in critically ill patients receiving acute dialysis. PLoS One 7: e30836, 2012
7. Arnaoutakis GJ, George TJ, Kilic A, et al.: Risk factors for early death in patients bridged to transplant with continuous-flow left ventricular assist devices. Ann Thorac Surg 93: 1549-1554; discussion 1555, 2012
8. Ried M, Kobuch R, Rupprecht L, et al.: Reduced 30-day mortality in men after elective coronary artery bypass surgery with minimized extracorporeal circulation-a propensity score analysis. BMC Cardiovasc Disord 12: 17, 2012
9. Thakar CV, Parikh PJ and Liu Y: Acute kidney injury (AKI) and risk of readmissions in patients with heart failure. Am J Cardiol 109: 1482-1486, 2012
10. Bojan M, Vicca S, Boulat C, Gioanni S and Pouard P: Aprotinin, transfusions, and kidney injury in neonates and infants undergoing cardiac surgery. Br J Anaesth 108: 830-837, 2012
11. Selby NM, Crowley L, Fluck RJ, et al.: Use of electronic results reporting to diagnose and monitor AKI in hospitalized patients. Clin J Am Soc Nephrol 7: 533-540, 2012
12. Amin AP, Salisbury AC, McCullough PA, et al.: Trends in the incidence of acute kidney injury in patients hospitalized with acute myocardial infarction. Arch Intern Med 172: 246-253, 2012
13. Wohlauer MV, Sauaia A, Moore EE, Burlew CC, Banerjee A and Johnson J: Acute kidney injury and posttrauma multiple organ failure: the canary in the coal mine. J Trauma Acute Care Surg 72: 373-378; discussion 379-380, 2012
14. Ryden L, Ahnve S, Bell M, Hammar N, Ivert T and Holzmann MJ: Acute kidney injury following coronary artery bypass grafting: early mortality and postoperative complications. Scand Cardiovasc J 46: 114-120, 2012
15. Patel UD, Garg AX, Krumholz HM, et al.: Preoperative serum brain natriuretic peptide and risk of acute kidney injury after cardiac surgery. Circulation 125: 1347-1355, 2012
16. Kim DY, Kobayashi L, Costantini TW, et al.: Is contrast exposure safe among the highest risk trauma patients? J Trauma Acute Care Surg 72: 61-66; discussion 66-67, 2012
17. Zhou J, Yang L, Zhang K, Liu Y and Fu P: Risk factors for the prognosis of acute kidney injury under the Acute Kidney Injury Network definition: a retrospective, multicenter study in critically ill patients. Nephrology (Carlton) 17: 330-337, 2012
18. Parolari A, Pesce LL, Pacini D, et al.: Risk factors for perioperative acute kidney injury after adult cardiac surgery: role of perioperative management. Ann Thorac Surg 93: 584-591, 2012

19. Sims AJ, Hussein HK, Prabhu M and Kanagasundaram NS: Are surrogate assumptions and use of diuretics associated with diagnosis and staging of acute kidney injury after cardiac surgery? Clin J Am Soc Nephrol 7: 15-23, 2012
20. Candela-Toha AM, Recio-Vazquez M, Delgado-Montero A, et al.: The calculation of baseline serum creatinine overestimates the diagnosis of acute kidney injury in patients undergoing cardiac surgery. Nefrologia 32: 53-58, 2012
21. Mehrotra A, Rose C, Pannu N, Gill J, Tonelli M and Gill JS: Incidence and consequences of acute kidney injury in kidney transplant recipients. Am J Kidney Dis 59: 558-565, 2012
22. Toth R, Breuer T, Cserep Z, et al.: Acute kidney injury is associated with higher morbidity and resource utilization in pediatric patients undergoing heart surgery. Ann Thorac Surg 93: 1984-1990, 2012
23. Liborio AB, Rocha NA, Oliveira MJ, et al.: Acute kidney injury in children with visceral leishmaniasis. Pediatr Infect Dis J 31: 451-454, 2012
24. Ried M, Haneya A, Kolat P, et al.: Acute renal dysfunction does not develop more frequently among octogenarians compared to septuagenarians after cardiac surgery. Thorac Cardiovasc Surg 60: 51-56, 2012
25. Fox CS, Muntner P, Chen AY, Alexander KP, Roe MT and Wiviott SD: Short-term outcomes of acute myocardial infarction in patients with acute kidney injury: a report from the national cardiovascular data registry. Circulation 125: 497-504, 2012
26. Stewart IJ, Tilley MA, Cotant CL, et al.: Association of AKI with adverse outcomes in burned military casualties. Clin J Am Soc Nephrol 7: 199-206, 2012
27. Garner AE, Lewington AJ and Barth JH: Detection of patients with acute kidney injury by the clinical laboratory using rises in serum creatinine: comparison of proposed definitions and a laboratory delta check. Ann Clin Biochem 49: 59-62, 2012
28. Craig DG, Bates CM, Davidson JS, Martin KG, Hayes PC and Simpson KJ: Staggered overdose pattern and delay to hospital presentation are associated with adverse outcomes following paracetamol-induced hepatotoxicity. Br J Clin Pharmacol 73: 285-294, 2012
29. Colpaert K, Hoste EA, Steurbaut K, et al.: Impact of real-time electronic alerting of acute kidney injury on therapeutic intervention and progression of RIFLE class. Crit Care Med 40: 1164-1170, 2012
30. Tolpin DA, Collard CD, Lee VV, et al.: Subclinical changes in serum creatinine and mortality after coronary artery bypass grafting. J Thorac Cardiovasc Surg 143: 682-688 e681, 2012
31. Coca SG, Jammalamadaka D, Sint K, et al.: Preoperative proteinuria predicts acute kidney injury in patients undergoing cardiac surgery. J Thorac Cardiovasc Surg 143: 495-502, 2012
32. Wehbe E, Brock R, Budev M, et al.: Short-term and long-term outcomes of acute kidney injury after lung transplantation. J Heart Lung Transplant 31: 244-251, 2012
33. Pedersen KR, Ravn HB, Povlsen JV, Schmidt MR, Erlandsen EJ and Hjortdal VE: Failure of remote ischemic preconditioning to reduce the risk of postoperative acute kidney injury in children undergoing operation for complex congenital heart disease: a randomized single-center study. J Thorac Cardiovasc Surg 143: 576-583, 2012
34. Viswanathan S, Manyam B, Azhibekov T and Mhanna MJ: Risk factors associated with acute kidney injury in extremely low birth weight (ELBW) infants. Pediatr Nephrol 27: 303-311, 2012
35. Blinder JJ, Goldstein SL, Lee VV, et al.: Congenital heart surgery in infants: effects of acute kidney injury on outcomes. J Thorac Cardiovasc Surg 143: 368-374, 2012
36. Han SS, Kang KJ, Kwon SJ, et al.: Additional role of urine output criterion in defining acute kidney injury. Nephrol Dial Transplant 27: 161-165, 2012
37. Haase M, Bellomo R, Story D, et al.: Effect of mean arterial pressure, haemoglobin and blood transfusion during cardiopulmonary bypass on post-operative acute kidney injury. Nephrol Dial Transplant 27: 153-160, 2012

38. Kavaz A, Ozcakar ZB, Kendirli T, Ozturk BB, Ekim M and Yalcinkaya F: Acute kidney injury in a paediatric intensive care unit: comparison of the pRIFLE and AKIN criteria. Acta Paediatr 101: e126-129, 2012
39. Girman CJ, Kou TD, Brodovicz K, et al.: Risk of acute renal failure in patients with Type 2 diabetes mellitus. Diabet Med 29: 614-621, 2012
40. Brown JR, Kramer RS, Coca SG and Parikh CR: The prognostic value of using the duration of acute kidney injury in cardiac surgery: an example using two antifibrinolytics. J Extra Corpor Technol 43: 227-231, 2011
41. Jiang F, Chen YH, Liang XL, et al.: [The sensitivity and accuracy of RIFLE and AKIN criteria for acute kidney injury diagnosis in intensive care unit patients]. Zhongguo Wei Zhong Bing Ji Jiu Yi Xue 23: 759-762, 2011
42. Stallworth JR, Tripathi A and Jerrell JM: Prevalence, treatment, and outcomes of renal conditions in pediatric sickle cell disease. South Med J 104: 752-756, 2011
43. Cartin-Ceba R, Kojicic M, Li G, et al.: Epidemiology of critical care syndromes, organ failures, and life-support interventions in a suburban US community. Chest 140: 1447-1455, 2011
44. Thakar CV, Christianson A, Himmelfarb J and Leonard AC: Acute kidney injury episodes and chronic kidney disease risk in diabetes mellitus. Clin J Am Soc Nephrol 6: 2567-2572, 2011
45. Acetylcysteine for prevention of renal outcomes in patients undergoing coronary and peripheral vascular angiography: main results from the randomized Acetylcysteine for Contrast-induced nephropathy Trial (ACT). Circulation 124: 1250-1259, 2011
46. Mitchell AM, Jones AE, Tumlin JA and Kline JA: Immediate complications of intravenous contrast for computed tomography imaging in the outpatient setting are rare. Acad Emerg Med 18: 1005-1009, 2011
47. Ried M, Puehler T, Haneya A, Schmid C and Diez C: Acute kidney injury in septua- and octogenarians after cardiac surgery. BMC Cardiovasc Disord 11: 52, 2011
48. Wu VC, Huang TM, Lai CF, et al.: Acute-on-chronic kidney injury at hospital discharge is associated with long-term dialysis and mortality. Kidney Int 80: 1222-1230, 2011
49. Meier P, Bonfils RM, Vogt B, Burnand B and Burnier M: Referral patterns and outcomes in noncritically ill patients with hospital-acquired acute kidney injury. Clin J Am Soc Nephrol 6: 2215-2225, 2011
50. Lahoti A, Nates JL, Wakefield CD, Price KJ and Salahudeen AK: Costs and outcomes of acute kidney injury in critically ill patients with cancer. J Support Oncol 9: 149-155, 2011
51. Lu RH, Fang Y, Gao JY, et al.: [Analysis of incidence and risk factor in hospitalized patients with acute kidney injury]. Zhongguo Wei Zhong Bing Ji Jiu Yi Xue 23: 413-417, 2011
52. Liu KD, Thompson BT, Ancukiewicz M, et al.: Acute kidney injury in patients with acute lung injury: impact of fluid accumulation on classification of acute kidney injury and associated outcomes. Crit Care Med 39: 2665-2671, 2011
53. Karkouti K, Wijeysundera DN, Yau TM, et al.: Influence of erythrocyte transfusion on the risk of acute kidney injury after cardiac surgery differs in anemic and nonanemic patients. Anesthesiology 115: 523-530, 2011
54. Mandelbaum T, Scott DJ, Lee J, et al.: Outcome of critically ill patients with acute kidney injury using the Acute Kidney Injury Network criteria. Crit Care Med 39: 2659-2664, 2011
55. Lombardi R, Nin N, Lorente JA, et al.: An assessment of the Acute Kidney Injury Network creatinine-based criteria in patients submitted to mechanical ventilation. Clin J Am Soc Nephrol 6: 1547-1555, 2011
56. Barbosa RR, Cestari PF, Capeletti JT, et al.: Impact of renal failure on in-hospital outcomes after coronary artery bypass surgery. Arq Bras Cardiol 97: 249-253, 2011
57. Alkandari O, Eddington KA, Hyder A, et al.: Acute kidney injury is an independent risk factor for pediatric intensive care unit mortality, longer length of stay and prolonged mechanical ventilation in critically ill children: a two-center retrospective cohort study. Crit Care 15: R146, 2011

58. Wi J, Ko YG, Kim JS, et al.: Impact of contrast-induced acute kidney injury with transient or persistent renal dysfunction on long-term outcomes of patients with acute myocardial infarction undergoing percutaneous coronary intervention. Heart 97: 1753-1757, 2011
59. Shlipak MG, Coca SG, Wang Z, et al.: Presurgical serum cystatin C and risk of acute kidney injury after cardiac surgery. Am J Kidney Dis 58: 366-373, 2011
60. Piccinni P, Cruz DN, Gramaticopolo S, et al.: Prospective multicenter study on epidemiology of acute kidney injury in the ICU: a critical care nephrology Italian collaborative effort (NEFROINT). Minerva Anestesiol 77: 1072-1083, 2011
61. Clec'h C, Gonzalez F, Lautrette A, et al.: Multiple-center evaluation of mortality associated with acute kidney injury in critically ill patients: a competing risks analysis. Crit Care 15: R128, 2011
62. Budano C, Levis M, D'Amico M, et al.: Impact of contrast-induced acute kidney injury definition on clinical outcomes. Am Heart J 161: 963-971, 2011
63. Pannu N, James M, Hemmelgarn BR, Dong J, Tonelli M and Klarenbach S: Modification of outcomes after acute kidney injury by the presence of CKD. Am J Kidney Dis 58: 206-213, 2011
64. Turker G, Ozsoy G, Gunlemez A, Gokalp AS, Arisoy AE and Bircan Z: Acute renal failure SNAPPE and mortality. Pediatr Int 53: 483-488, 2011
65. Hwang SH, Jeong MH, Ahmed K, et al.: Different clinical outcomes of acute kidney injury according to acute kidney injury network criteria in patients between ST elevation and non-ST elevation myocardial infarction. Int J Cardiol 150: 99-101, 2011
66. Zhong XH, Ding J, Liu XY, Xiao HJ, Yao Y and Huang JP: [Clinical analysis of acute kidney injury in children with renal diseases]. Zhonghua Er Ke Za Zhi 49: 60-65, 2011
67. Cho A, Lee JE, Kwon GY, et al.: Post-operative acute kidney injury in patients with renal cell carcinoma is a potent risk factor for new-onset chronic kidney disease after radical nephrectomy. Nephrol Dial Transplant 26: 3496-3501, 2011
68. Pettila V, Webb SA, Bailey M, Howe B, Seppelt IM and Bellomo R: Acute kidney injury in patients with influenza A (H1N1) 2009. Intensive Care Med 37: 763-767, 2011
69. Grams ME, Estrella MM, Coresh J, Brower RG and Liu KD: Fluid balance, diuretic use, and mortality in acute kidney injury. Clin J Am Soc Nephrol 6: 966-973, 2011
70. van Kuijk JP, Flu WJ, Valentijn TM, et al.: Preoperative left ventricular dysfunction predisposes to postoperative acute kidney injury and long-term mortality. J Nephrol 24: 764-770, 2011
71. Licker M, Cartier V, Robert J, et al.: Risk factors of acute kidney injury according to RIFLE criteria after lung cancer surgery. Ann Thorac Surg 91: 844-850, 2011
72. Choi NK, Chang Y, Jung SY, et al.: A population-based case-crossover study of polyethylene glycol use and acute renal failure risk in the elderly. World J Gastroenterol 17: 651-656, 2011
73. Martin-Loeches I, Papiol E, Rodriguez A, et al.: Acute kidney injury in critical ill patients affected by influenza A (H1N1) virus infection. Crit Care 15: R66, 2011
74. Ishani A, Nelson D, Clothier B, et al.: The magnitude of acute serum creatinine increase after cardiac surgery and the risk of chronic kidney disease, progression of kidney disease, and death. Arch Intern Med 171: 226-233, 2011
75. Krawczeski CD, Woo JG, Wang Y, Bennett MR, Ma Q and Devarajan P: Neutrophil gelatinase-associated lipocalin concentrations predict development of acute kidney injury in neonates and children after cardiopulmonary bypass. J Pediatr 158: 1009-1015 e1001, 2011
76. Pompilio G, Filippini S, Agrifoglio M, et al.: Determinants of pericardial drainage for cardiac tamponade following cardiac surgery. Eur J Cardiothorac Surg 39: e107-113, 2011
77. Ali T, Tachibana A, Khan I, et al.: The changing pattern of referral in acute kidney injury. QJM 104: 497-503, 2011

78. Mithani S, Kuskowski M, Slinin Y, Ishani A, McFalls E and Adabag S: Dose-dependent effect of statins on the incidence of acute kidney injury after cardiac surgery. Ann Thorac Surg 91: 520-525, 2011
79. Lin HY, Lai JI, Lai YC, Lin PC, Chang SC and Tang GJ: Acute renal failure in severe pancreatitis: A population-based study. Ups J Med Sci 116: 155-159, 2011
80. James MT, Ghali WA, Knudtson ML, et al.: Associations between acute kidney injury and cardiovascular and renal outcomes after coronary angiography. Circulation 123: 409-416, 2011
81. Englberger L, Suri RM, Li Z, et al.: Clinical accuracy of RIFLE and Acute Kidney Injury Network (AKIN) criteria for acute kidney injury in patients undergoing cardiac surgery. Crit Care 15: R16, 2011
82. Garzotto F, Piccinni P, Cruz D, et al.: RIFLE-based data collection/management system applied to a prospective cohort multicenter Italian study on the epidemiology of acute kidney injury in the intensive care unit. Blood Purif 31: 159-171, 2011
83. Moffett BS and Goldstein SL: Acute kidney injury and increasing nephrotoxic-medication exposure in noncritically-ill children. Clin J Am Soc Nephrol 6: 856-863, 2011
84. Bolesta S, Uhrin LM and Guzek JR: Preoperative statins and acute kidney injury after cardiac surgery: utilization of a consensus definition of acute kidney injury. Ann Pharmacother 45: 23-30, 2011
85. Noyez L: Influence of the definition of acute renal failure post-cardiac surgery on incidence, patient identification, and identification of risk factors. Eur J Cardiothorac Surg 39: e8-12, 2011
86. Huang TM, Wu VC, Young GH, et al.: Preoperative proteinuria predicts adverse renal outcomes after coronary artery bypass grafting. J Am Soc Nephrol 22: 156-163, 2011
87. Du Y, Zappitelli M, Mian A, et al.: Urinary biomarkers to detect acute kidney injury in the pediatric emergency center. Pediatr Nephrol 26: 267-274, 2011
88. Kimura T, Obi Y, Yasuda K, et al.: Effects of chronic kidney disease and post-angiographic acute kidney injury on long-term prognosis after coronary artery angiography. Nephrol Dial Transplant 26: 1838-1846, 2011
89. de Geus HR, Bakker J, Lesaffre EM and le Noble JL: Neutrophil gelatinase-associated lipocalin at ICU admission predicts for acute kidney injury in adult patients. Am J Respir Crit Care Med 183: 907-914, 2011
90. Li SY, Chen JY, Yang WC and Chuang CL: Acute kidney injury network classification predicts in-hospital and long-term mortality in patients undergoing elective coronary artery bypass grafting surgery. Eur J Cardiothorac Surg 39: 323-328, 2011
91. Fonseca Ruiz NJ, Castro DP, Guerra AM, Saldarriaga FM and Hernandez JD: Renal injury study in critical ill patients in accordance with the new definition given by the Acute Kidney Injury Network. J Crit Care 26: 206-212, 2011
92. Zappitelli M, Moffett BS, Hyder A and Goldstein SL: Acute kidney injury in non-critically ill children treated with aminoglycoside antibiotics in a tertiary healthcare centre: a retrospective cohort study. Nephrol Dial Transplant 26: 144-150, 2011
93. Paden ML, Warshaw BL, Heard ML and Fortenberry JD: Recovery of renal function and survival after continuous renal replacement therapy during extracorporeal membrane oxygenation. Pediatr Crit Care Med 12: 153-158, 2011
94. Englberger L, Suri RM, Greason KL, et al.: Deep hypothermic circulatory arrest is not a risk factor for acute kidney injury in thoracic aortic surgery. J Thorac Cardiovasc Surg 141: 552-558, 2011
95. Askenazi DJ, Ambalavanan N, Hamilton K, et al.: Acute kidney injury and renal replacement therapy independently predict mortality in neonatal and pediatric noncardiac patients on extracorporeal membrane oxygenation. Pediatr Crit Care Med 12: e1-6, 2011
96. Ostermann M and Chang RW: Challenges of defining acute kidney injury. QJM 104: 237-243, 2011
97. Amin AP, Spertus JA, Reid KJ, et al.: The prognostic importance of worsening renal function during an acute myocardial infarction on long-term mortality. Am Heart J 160: 1065-1071, 2010

98. Mehta RH, Honeycutt E, Patel UD, et al.: Impact of recovery of renal function on long-term mortality after coronary artery bypass grafting. Am J Cardiol 106: 1728-1734, 2010
99. Robert AM, Kramer RS, Dacey LJ, et al.: Cardiac surgery-associated acute kidney injury: a comparison of two consensus criteria. Ann Thorac Surg 90: 1939-1943, 2010
100. James MT, Hemmelgarn BR, Wiebe N, et al.: Glomerular filtration rate, proteinuria, and the incidence and consequences of acute kidney injury: a cohort study. Lancet 376: 2096-2103, 2010
101. Vannaphan S, Walters N, Saengnedsawang T, et al.: Factors associated with acute renal failure in severe falciparum [corrected] malaria patients. Southeast Asian J Trop Med Public Health 41: 1042-1047, 2010
102. Iglesias JI, DePalma JA and Levine JS: Risk factors for acute kidney injury following orthotopic liver transplantation: the impact of changes in renal function while patients await transplantation. BMC Nephrol 11: 30, 2010
103. Silva Junior GB, Liborio AB, Mota RM, et al.: Acute kidney injury in AIDS: frequency, RIFLE classification and outcome. Braz J Med Biol Res 43: 1102-1108, 2010
104. Brown JR, Kramer RS, Coca SG and Parikh CR: Duration of acute kidney injury impacts long-term survival after cardiac surgery. Ann Thorac Surg 90: 1142-1148, 2010
105. Yende S, van der Poll T, Lee M, et al.: The influence of pre-existing diabetes mellitus on the host immune response and outcome of pneumonia: analysis of two multicentre cohort studies. Thorax 65: 870-877, 2010
106. Hennessy SA, LaPar DJ, Stukenborg GJ, et al.: Cardiac catheterization within 24 hours of valve surgery is significantly associated with acute renal failure. J Thorac Cardiovasc Surg 140: 1011-1017, 2010
107. Fang Y, Ding X, Zhong Y, et al.: Acute kidney injury in a Chinese hospitalized population. Blood Purif 30: 120-126, 2010
108. D'Onofrio A, Cruz D, Bolgan I, et al.: RIFLE criteria for cardiac surgery-associated acute kidney injury: risk factors and outcomes. Congest Heart Fail 16 Suppl 1: S32-36, 2010
109. Coca SG, King JT, Jr., Rosenthal RA, Perkal MF and Parikh CR: The duration of postoperative acute kidney injury is an additional parameter predicting long-term survival in diabetic veterans. Kidney Int 78: 926-933, 2010
110. Lafrance JP and Miller DR: Defining acute kidney injury in database studies: the effects of varying the baseline kidney function assessment period and considering CKD status. Am J Kidney Dis 56: 651-660, 2010
111. Ibrahim F, Naftalin C, Cheserem E, et al.: Immunodeficiency and renal impairment are risk factors for HIV-associated acute renal failure. AIDS 24: 2239-2244, 2010
112. Ingraham AM, Xiong W, Hemmila MR, et al.: The attributable mortality and length of stay of trauma-related complications: a matched cohort study. Ann Surg 252: 358-362, 2010
113. Kwon SH, Noh H, Jeon JS, Kim Y and Han DC: An assessment of AKIN criteria for hospital-acquired acute kidney injury: a prospective observational cohort study. Nephron Clin Pract 116: c217-223, 2010
114. Soto K, Coelho S, Rodrigues B, et al.: Cystatin C as a marker of acute kidney injury in the emergency department. Clin J Am Soc Nephrol 5: 1745-1754, 2010
115. Lahoti A, Kantarjian H, Salahudeen AK, et al.: Predictors and outcome of acute kidney injury in patients with acute myelogenous leukemia or high-risk myelodysplastic syndrome. Cancer 116: 4063-4068, 2010
116. Bihorac A, Delano MJ, Schold JD, et al.: Incidence, clinical predictors, genomics, and outcome of acute kidney injury among trauma patients. Ann Surg 252: 158-165, 2010
117. Fisher BT, Zaoutis TE, Leckerman KH, Localio R and Aplenc R: Risk factors for renal failure in pediatric patients with acute myeloid leukemia: a retrospective cohort study. Pediatr Blood Cancer 55: 655-661, 2010
118. Choi AI, Li Y, Parikh C, Volberding PA and Shlipak MG: Long-term clinical consequences of acute kidney injury in the HIV-infected. Kidney Int 78: 478-485, 2010

119. Szczech LA, Granger CB, Dasta JF, et al.: Acute kidney injury and cardiovascular outcomes in acute severe hypertension. Circulation 121: 2183-2191, 2010
120. Akram AR, Singanayagam A, Choudhury G, Mandal P, Chalmers JD and Hill AT: Incidence and prognostic implications of acute kidney injury on admission in patients with community-acquired pneumonia. Chest 138: 825-832, 2010
121. Romano G, Mastroianni C, Bancone C, et al.: Leukoreduction program for red blood cell transfusions in coronary surgery: association with reduced acute kidney injury and in-hospital mortality. J Thorac Cardiovasc Surg 140: 188-195, 2010
122. Shema-Didi L, Ore L, Geron R and Kristal B: Is anemia at hospital admission associated with in-hospital acute kidney injury occurrence? Nephron Clin Pract 115: c168-176, 2010
123. Mitter N, Shah A, Yuh D, et al.: Renal injury is associated with operative mortality after cardiac surgery for women and men. J Thorac Cardiovasc Surg 140: 1367-1373, 2010
124. Argalious M, Xu M, Sun Z, Smedira N and Koch CG: Preoperative statin therapy is not associated with a reduced incidence of postoperative acute kidney injury after cardiac surgery. Anesth Analg 111: 324-330, 2010
125. Laoprasopwattana K, Pruekprasert P, Dissaneewate P, Geater A and Vachvanichsanong P: Outcome of dengue hemorrhagic fever-caused acute kidney injury in Thai children. J Pediatr 157: 303-309, 2010
126. Matheny ME, Miller RA, Ikizler TA, et al.: Development of inpatient risk stratification models of acute kidney injury for use in electronic health records. Med Decis Making 30: 639-650, 2010
127. De Santo LS, Romano G, Galdieri N, et al.: RIFLE criteria for acute kidney injury in valvular surgery. J Heart Valve Dis 19: 139-147; discussion 148, 2010
128. Santiago MJ, Lopez-Herce J, Urbano J, et al.: Clinical course and mortality risk factors in critically ill children requiring continuous renal replacement therapy. Intensive Care Med 36: 843-849, 2010
129. Gude E, Andreassen AK, Arora S, et al.: Acute renal failure early after heart transplantation: risk factors and clinical consequences. Clin Transplant 24: E207-213, 2010
130. Morgan DJ and Ho KM: A comparison of nonoliguric and oliguric severe acute kidney injury according to the risk injury failure loss end-stage (RIFLE) criteria. Nephron Clin Pract 115: c59-65, 2010
131. Jyrala A, Weiss RE, Jeffries RA and Kay GL: Effect of mild renal dysfunction (s-crea 1.2-2.2 mg/dl) on presentation characteristics and short- and long-term outcomes of on-pump cardiac surgery patients. Interact Cardiovasc Thorac Surg 10: 777-782, 2010
132. Ahmed AA, Hays CI, Liu B, et al.: Predictors of in-hospital mortality among hospitalized nursing home residents: an analysis of the National Hospital Discharge Surveys 2005-2006. J Am Med Dir Assoc 11: 52-58, 2010
133. Schneider J, Khemani R, Grushkin C and Bart R: Serum creatinine as stratified in the RIFLE score for acute kidney injury is associated with mortality and length of stay for children in the pediatric intensive care unit. Crit Care Med 38: 933-939, 2010
134. Lafrance JP, Djurdjev O and Levin A: Incidence and outcomes of acute kidney injury in a referred chronic kidney disease cohort. Nephrol Dial Transplant 25: 2203-2209, 2010
135. Uchino S, Bellomo R, Bagshaw SM and Goldsmith D: Transient azotaemia is associated with a high risk of death in hospitalized patients. Nephrol Dial Transplant 25: 1833-1839, 2010
136. Hsu CY, Huang YH, Su CW, et al.: Transarterial chemoembolization in patients with hepatocellular carcinoma and renal insufficiency. J Clin Gastroenterol 44: e171-177, 2010
137. Kong FY, Tao WD, Hao ZL and Liu M: Predictors of one-year disability and death in Chinese hospitalized women after ischemic stroke. Cerebrovasc Dis 29: 255-262, 2010
138. Gordon AC, Russell JA, Walley KR, et al.: The effects of vasopressin on acute kidney injury in septic shock. Intensive Care Med 36: 83-91, 2010

139. Ferreira AC, Nolasco F, Carvalho D, et al.: Impact of RIFLE classification in liver transplantation. Clin Transplant 24: 394-400, 2010
140. Heise D, Sundermann D, Braeuer A and Quintel M: Validation of a clinical score to determine the risk of acute renal failure after cardiac surgery. Eur J Cardiothorac Surg 37: 710-716, 2010
141. Hsu CY, Huang YH, Su CW, et al.: Renal failure in patients with hepatocellular carcinoma and ascites undergoing transarterial chemoembolization. Liver Int 30: 77-84, 2010
142. Thakar CV, Christianson A, Freyberg R, Almenoff P and Render ML: Incidence and outcomes of acute kidney injury in intensive care units: a Veterans Administration study. Crit Care Med 37: 2552-2558, 2009
143. Rodrigues AJ, Evora PR, Bassetto S, et al.: Risk factors for acute renal failure after heart surgery. Rev Bras Cir Cardiovasc 24: 441-446, 2009
144. Lau DH, Huynh LT, Chew DP, Astley CM, Soman A and Sanders P: Prognostic impact of types of atrial fibrillation in acute coronary syndromes. Am J Cardiol 104: 1317-1323, 2009
145. Yan XL, Li Q, Hou XT, et al.: [Postoperative acute renal failure in adult patients with cardiac surgery: evaluation of the RIFLE classification]. Zhonghua Yi Xue Za Zhi 89: 1766-1769, 2009
146. Machado MN, Miranda RC, Takakura IT, et al.: Acute kidney injury after on-pump coronary artery bypass graft surgery. Arq Bras Cardiol 93: 247-252, 2009
147. Li JH, Wang NS, Wang F, Xiang HY, Wu HL and Wu QM: Acute renal failure in hospitalized patients in China: a prospective study. Ren Fail 31: 431-437, 2009
148. Slankamenac K, Breitenstein S, Held U, Beck-Schimmer B, Puhan MA and Clavien PA: Development and validation of a prediction score for postoperative acute renal failure following liver resection. Ann Surg 250: 720-728, 2009
149. Wu CT, Huang JL, Lin JJ and Hsia SH: Factors associated with nontraumatic rhabdomyolysis and acute renal failure of children in Taiwan population. Pediatr Emerg Care 25: 657-660, 2009
150. Stamou SC, Reames MK, Skipper E, et al.: Aprotinin in cardiac surgery patients: is the risk worth the benefit? Eur J Cardiothorac Surg 36: 869-875, 2009
151. Saddadi F, Hakemi M, Najafi I, et al.: Chronic kidney disease after hematopoietic cell transplantation: frequency, risk factors, and outcomes. Transplant Proc 41: 2895-2897, 2009
152. Cartin-Ceba R, Haugen EN, Iscimen R, Trillo-Alvarez C, Juncos L and Gajic O: Evaluation of "Loss" and "End stage renal disease" after acute kidney injury defined by the Risk, Injury, Failure, Loss and ESRD classification in critically ill patients. Intensive Care Med 35: 2087-2095, 2009
153. Amdur RL, Chawla LS, Amodeo S, Kimmel PL and Palant CE: Outcomes following diagnosis of acute renal failure in U.S. veterans: focus on acute tubular necrosis. Kidney Int 76: 1089-1097, 2009
154. Nicoara A, Patel UD, Phillips-Bute BG, et al.: Mortality trends associated with acute renal failure requiring dialysis after CABG surgery in the United States. Blood Purif 28: 359-363, 2009
155. Soltani A, Karsidag S and Garner W: A ten-year experience with hemodialysis in burn patients at Los Angeles County + USC Medical Center. J Burn Care Res 30: 832-835, 2009
156. Costantini TW, Fraga G, Fortlage D, et al.: Redefining renal dysfunction in trauma: implementation of the Acute Kidney Injury Network staging system. J Trauma 67: 283-287; discussion 287-288, 2009
157. De Santo L, Romano G, Della Corte A, et al.: Preoperative anemia in patients undergoing coronary artery bypass grafting predicts acute kidney injury. J Thorac Cardiovasc Surg 138: 965-970, 2009
158. Zappitelli M, Bernier PL, Saczkowski RS, et al.: A small post-operative rise in serum creatinine predicts acute kidney injury in children undergoing cardiac surgery. Kidney Int 76: 885-892, 2009
159. Lo LJ, Go AS, Chertow GM, et al.: Dialysis-requiring acute renal failure increases the risk of progressive chronic kidney disease. Kidney Int 76: 893-899, 2009

160. Haider AH, Crompton JG, Oyetunji T, et al.: Females have fewer complications and lower mortality following trauma than similarly injured males: a risk adjusted analysis of adults in the National Trauma Data Bank. Surgery 146: 308-315, 2009
161. Joannidis M, Metnitz B, Bauer P, et al.: Acute kidney injury in critically ill patients classified by AKIN versus RIFLE using the SAPS 3 database. Intensive Care Med 35: 1692-1702, 2009
162. Manrique A, Jooste EH, Kuch BA, et al.: The association of renal dysfunction and the use of aprotinin in patients undergoing congenital cardiac surgery requiring cardiopulmonary bypass. Anesth Analg 109: 45-52, 2009
163. Ahmadi H, Karimi A, Davoodi S, et al.: Determinant factors of renal failure after coronary artery bypass grafting with on-pump technique. Med Princ Pract 18: 300-304, 2009
164. Yuan F, Hou FF, Wu Q, Chen PY, Xie D and Zhang X: Natural history and impact on outcomes of acute kidney injury in patients with road traffic injury. Clin Nephrol 71: 669-679, 2009
165. Abelha FJ, Botelho M, Fernandes V and Barros H: Determinants of postoperative acute kidney injury. Crit Care 13: R79, 2009
166. Zacharia BE, Ducruet AF, Hickman ZL, et al.: Renal dysfunction as an independent predictor of outcome after aneurysmal subarachnoid hemorrhage: a single-center cohort study. Stroke 40: 2375-2381, 2009
167. Hauer D, Kilger E, Kaufmann I, et al.: Risk and outcome analysis of renal replacement therapies in patients after cardiac surgery with pre-operatively normal renal function. Anaesthesia 64: 615-619, 2009
168. Metz LI, LeBeau ME, Zlabek JA and Mathiason MA: Acute renal failure in patients undergoing cardiothoracic surgery in a community hospital. WMJ 108: 109-114, 2009
169. Hsu CY, Chertow GM, McCulloch CE, Fan D, Ordonez JD and Go AS: Nonrecovery of kidney function and death after acute on chronic renal failure. Clin J Am Soc Nephrol 4: 891-898, 2009
170. Hobson CE, Yavas S, Segal MS, et al.: Acute kidney injury is associated with increased long-term mortality after cardiothoracic surgery. Circulation 119: 2444-2453, 2009
171. Bihorac A, Yavas S, Subbiah S, et al.: Long-term risk of mortality and acute kidney injury during hospitalization after major surgery. Ann Surg 249: 851-858, 2009
172. Kajimoto K, Miyauchi K, Kasai T, et al.: Metabolic syndrome is an independent risk factor for stroke and acute renal failure after coronary artery bypass grafting. J Thorac Cardiovasc Surg 137: 658-663, 2009
173. Antunes PE, de Oliveira JF and Antunes MJ: Risk-prediction for postoperative major morbidity in coronary surgery. Eur J Cardiothorac Surg 35: 760-766; discussion 766-767, 2009
174. Esper AM, Moss M and Martin GS: The effect of diabetes mellitus on organ dysfunction with sepsis: an epidemiological study. Crit Care 13: R18, 2009
175. Kheterpal S, Tremper KK, Heung M, et al.: Development and validation of an acute kidney injury risk index for patients undergoing general surgery: results from a national data set. Anesthesiology 110: 505-515, 2009
176. Tsagalis G, Akrivos T, Alevizaki M, et al.: Long-term prognosis of acute kidney injury after first acute stroke. Clin J Am Soc Nephrol 4: 616-622, 2009
177. Georgiou C, Inaba K, Teixeira PG, et al.: Cirrhosis and trauma are a lethal combination. World J Surg 33: 1087-1092, 2009
178. Huffmyer JL, Mauermann WJ, Thiele RH, Ma JZ and Nemergut EC: Preoperative statin administration is associated with lower mortality and decreased need for postoperative hemodialysis in patients undergoing coronary artery bypass graft surgery. J Cardiothorac Vasc Anesth 23: 468-473, 2009
179. Bagshaw SM, Lapinsky S, Dial S, et al.: Acute kidney injury in septic shock: clinical outcomes and impact of duration of hypotension prior to initiation of antimicrobial therapy. Intensive Care Med 35: 871-881, 2009

180. Ishani A, Xue JL, Himmelfarb J, et al.: Acute kidney injury increases risk of ESRD among elderly. J Am Soc Nephrol 20: 223-228, 2009
181. Silva GB, Jr., Monteiro FA, Mota RM, et al.: Acute kidney injury requiring dialysis in obstetric patients: a series of 55 cases in Brazil. Arch Gynecol Obstet 279: 131-137, 2009
182. Lecomte P, Van Vlem B, Coddens J, et al.: Tight perioperative glucose control is associated with a reduction in renal impairment and renal failure in non-diabetic cardiac surgical patients. Crit Care 12: R154, 2008
183. Ostermann M and Chang R: Correlation between the AKI classification and outcome. Crit Care 12: R144, 2008
184. Benedetto U, Sciarretta S, Roscitano A, et al.: Preoperative Angiotensin-converting enzyme inhibitors and acute kidney injury after coronary artery bypass grafting. Ann Thorac Surg 86: 1160-1165, 2008
185. Lopes JA, Fernandes P, Jorge S, et al.: Acute kidney injury in intensive care unit patients: a comparison between the RIFLE and the Acute Kidney Injury Network classifications. Crit Care 12: R110, 2008
186. Arora P, Rajagopalam S, Ranjan R, et al.: Preoperative use of angiotensin-converting enzyme inhibitors/angiotensin receptor blockers is associated with increased risk for acute kidney injury after cardiovascular surgery. Clin J Am Soc Nephrol 3: 1266-1273, 2008
187. Bagshaw SM, George C, Gibney RT and Bellomo R: A multi-center evaluation of early acute kidney injury in critically ill trauma patients. Ren Fail 30: 581-589, 2008
188. Roe J, Campbell LJ, Ibrahim F, Hendry BM and Post FA: HIV care and the incidence of acute renal failure. Clin Infect Dis 47: 242-249, 2008
189. Payen D, de Pont AC, Sakr Y, Spies C, Reinhart K and Vincent JL: A positive fluid balance is associated with a worse outcome in patients with acute renal failure. Crit Care 12: R74, 2008
190. Plotz FB, Bouma AB, van Wijk JA, Kneyber MC and Bokenkamp A: Pediatric acute kidney injury in the ICU: an independent evaluation of pRIFLE criteria. Intensive Care Med 34: 1713-1717, 2008
191. Nickolas TL, O'Rourke MJ, Yang J, et al.: Sensitivity and specificity of a single emergency department measurement of urinary neutrophil gelatinase-associated lipocalin for diagnosing acute kidney injury. Ann Intern Med 148: 810-819, 2008
192. Perez Valdivieso JR, Bes-Rastrollo M, Monedero P, De Irala J and Lavilla FJ: Evaluation of the prognostic value of the risk, injury, failure, loss and end-stage renal failure (RIFLE) criteria for acute kidney injury. Nephrology (Carlton) 13: 361-366, 2008
193. Candela-Toha A, Elias-Martin E, Abraira V, et al.: Predicting acute renal failure after cardiac surgery: external validation of two new clinical scores. Clin J Am Soc Nephrol 3: 1260-1265, 2008
194. Pedersen KR, Hjortdal VE, Christensen S, et al.: Clinical outcome in children with acute renal failure treated with peritoneal dialysis after surgery for congenital heart disease. Kidney Int Suppl: S81-86, 2008
195. Athappan G, Balaji MV, Navaneethan U and Thirumalikolundusubramanian P: Acute renal failure in snake envenomation: a large prospective study. Saudi J Kidney Dis Transpl 19: 404-410, 2008
196. Garcia-Rodriguez LA, Masso-Gonzalez EL, Wallander MA and Johansson S: The safety of rosuvastatin in comparison with other statins in over 100,000 statin users in UK primary care. Pharmacoepidemiol Drug Saf 17: 943-952, 2008
197. Garcia-Rodriguez LA, Gonzalez-Perez A, Stang MR, Wallander MA and Johansson S: The safety of rosuvastatin in comparison with other statins in over 25,000 statin users in the Saskatchewan Health Databases. Pharmacoepidemiol Drug Saf 17: 953-961, 2008
198. Zappitelli M, Parikh CR, Akcan-Arikan A, Washburn KK, Moffett BS and Goldstein SL: Ascertainment and epidemiology of acute kidney injury varies with definition interpretation. Clin J Am Soc Nephrol 3: 948-954, 2008

199. Bagshaw SM, George C and Bellomo R: Early acute kidney injury and sepsis: a multicentre evaluation. Crit Care 12: R47, 2008
200. Hsu CY, Ordonez JD, Chertow GM, Fan D, McCulloch CE and Go AS: The risk of acute renal failure in patients with chronic kidney disease. Kidney Int 74: 101-107, 2008
201. Lassnigg A, Schmid ER, Hiesmayr M, et al.: Impact of minimal increases in serum creatinine on outcome in patients after cardiothoracic surgery: do we have to revise current definitions of acute renal failure? Crit Care Med 36: 1129-1137, 2008
202. Lima RS, Marques CN, Silva Junior GB, et al.: Comparison between early and delayed acute kidney injury secondary to infectious disease in the intensive care unit. Int Urol Nephrol 40: 731-739, 2008
203. Csaicsich D, Russo-Schlaff N, Messerschmidt A, Weninger M, Pollak A and Aufricht C: Renal failure, comorbidity and mortality in preterm infants. Wien Klin Wochenschr 120: 153-157, 2008
204. Roghi A, Savonitto S, Cavallini C, et al.: Impact of acute renal failure following percutaneous coronary intervention on long-term mortality. J Cardiovasc Med (Hagerstown) 9: 375-381, 2008
205. Daher EF, Marques CN, Lima RS, et al.: Acute kidney injury in an infectious disease intensive care unit - an assessment of prognostic factors. Swiss Med Wkly 138: 128-133, 2008
206. Bagshaw SM, George C and Bellomo R: A comparison of the RIFLE and AKIN criteria for acute kidney injury in critically ill patients. Nephrol Dial Transplant 23: 1569-1574, 2008
207. Mittalhenkle A, Stehman-Breen CO, Shlipak MG, et al.: Cardiovascular risk factors and incident acute renal failure in older adults: the cardiovascular health study. Clin J Am Soc Nephrol 3: 450-456, 2008
208. Schetz M, Vanhorebeek I, Wouters PJ, Wilmer A and Van den Berghe G: Tight blood glucose control is renoprotective in critically ill patients. J Am Soc Nephrol 19: 571-578, 2008
209. Dasta JF, Kane-Gill SL, Durtschi AJ, Pathak DS and Kellum JA: Costs and outcomes of acute kidney injury (AKI) following cardiac surgery. Nephrol Dial Transplant 23: 1970-1974, 2008
210. Karkouti K, Wijeysundera DN and Beattie WS: Risk associated with preoperative anemia in cardiac surgery: a multicenter cohort study. Circulation 117: 478-484, 2008
211. Covic A, Schiller A, Mardare NG, et al.: The impact of acute kidney injury on short-term survival in an Eastern European population with stroke. Nephrol Dial Transplant 23: 2228-2234, 2008
212. Bagshaw SM, George C, Dinu I and Bellomo R: A multi-centre evaluation of the RIFLE criteria for early acute kidney injury in critically ill patients. Nephrol Dial Transplant 23: 1203-1210, 2008
213. From AM, Bartholmai BJ, Williams AW, Cha SS, Pflueger A and McDonald FS: Sodium bicarbonate is associated with an increased incidence of contrast nephropathy: a retrospective cohort study of 7977 patients at mayo clinic. Clin J Am Soc Nephrol 3: 10-18, 2008
214. Washburn KK, Zappitelli M, Arikan AA, et al.: Urinary interleukin-18 is an acute kidney injury biomarker in critically ill children. Nephrol Dial Transplant 23: 566-572, 2008
215. Iglesias JI, DePalma L, Hom D, Antoniotti M, Ayoub S and Levine JS: Predictors of mortality in adult patients with congestive heart failure receiving nesiritide--retrospective analysis showing a potential adverse interaction between nesiritide and acute renal dysfunction. Nephrol Dial Transplant 23: 144-153, 2008
216. Lopez-Herce J, Santiago MJ, Sanchez C, Mencia S, Carrillo A and Vigil D: Risk factors for gastrointestinal complications in critically ill children with transpyloric enteral nutrition. Eur J Clin Nutr 62: 395-400, 2008
217. Kheterpal S, Tremper KK, Englesbe MJ, et al.: Predictors of postoperative acute renal failure after noncardiac surgery in patients with previously normal renal function. Anesthesiology 107: 892-902, 2007
218. Perez Valdivieso JR, Bes-Rastrollo M, Monedero P, De Irala J and Lavilla FJ: Karnofsky performance score in acute renal failure as a predictor of short-term survival. Nephrology (Carlton) 12: 533-538, 2007
219. Eachempati SR, Wang JC, Hydo LJ, Shou J and Barie PS: Acute renal failure in critically ill surgical patients: persistent lethality despite new modes of renal replacement therapy. J Trauma 63: 987-993, 2007

220. Liu KD, Glidden DV, Eisner MD, et al.: Predictive and pathogenetic value of plasma biomarkers for acute kidney injury in patients with acute lung injury. Crit Care Med 35: 2755-2761, 2007
221. Thakar CV, Worley S, Arrigain S, Yared JP and Paganini EP: Improved survival in acute kidney injury after cardiac surgery. Am J Kidney Dis 50: 703-711, 2007
222. Bouzas-Mosquera A, Vazquez-Rodriguez JM, Calvino-Santos R, et al.: [Contrast-induced nephropathy and acute renal failure following emergent cardiac catheterization: incidence, risk factors and prognosis]. Rev Esp Cardiol 60: 1026-1034, 2007
223. Landoni G, Bove T, Crivellari M, et al.: Acute renal failure after isolated CABG surgery: six years of experience. Minerva Anestesiol 73: 559-565, 2007
224. Pedersen KR, Povlsen JV, Christensen S, et al.: Risk factors for acute renal failure requiring dialysis after surgery for congenital heart disease in children. Acta Anaesthesiol Scand 51: 1344-1349, 2007
225. Swaminathan M, Shaw AD, Phillips-Bute BG, et al.: Trends in acute renal failure associated with coronary artery bypass graft surgery in the United States. Crit Care Med 35: 2286-2291, 2007
226. Del Duca D, Iqbal S, Rahme E, Goldberg P and de Varennes B: Renal failure after cardiac surgery: timing of cardiac catheterization and other perioperative risk factors. Ann Thorac Surg 84: 1264-1271, 2007
227. Chawla LS, Seneff MG, Nelson DR, et al.: Elevated plasma concentrations of IL-6 and elevated APACHE II score predict acute kidney injury in patients with severe sepsis. Clin J Am Soc Nephrol 2: 22-30, 2007
228. Cruz DN, Bolgan I, Perazella MA, et al.: North East Italian Prospective Hospital Renal Outcome Survey on Acute Kidney Injury (NEiPHROS-AKI): targeting the problem with the RIFLE Criteria. Clin J Am Soc Nephrol 2: 418-425, 2007
229. Zappitelli M, Washburn KK, Arikan AA, et al.: Urine neutrophil gelatinase-associated lipocalin is an early marker of acute kidney injury in critically ill children: a prospective cohort study. Crit Care 11: R84, 2007
230. Doddakula K, Al-Sarraf N, Gately K, et al.: Predictors of acute renal failure requiring renal replacement therapy post cardiac surgery in patients with preoperatively normal renal function. Interact Cardiovasc Thorac Surg 6: 314-318, 2007
231. Di Bella I, Da Col U, Ciampichini R, et al.: [Validation of a new scoring system to predict the risk of postoperative acute renal failure in cardiac surgery]. G Ital Cardiol (Rome) 8: 306-310, 2007
232. Sizzi O, Rossetti A, Malzoni M, et al.: Italian multicenter study on complications of laparoscopic myomectomy. J Minim Invasive Gynecol 14: 453-462, 2007
233. Palomba H, de Castro I, Neto AL, Lage S and Yu L: Acute kidney injury prediction following elective cardiac surgery: AKICS Score. Kidney Int 72: 624-631, 2007
234. Ostermann M and Chang RW: Acute kidney injury in the intensive care unit according to RIFLE. Crit Care Med 35: 1837-1843; quiz 1852, 2007
235. Brandt MM, Falvo AJ, Rubinfeld IS, Blyden D, Durrani NK and Horst HM: Renal dysfunction in trauma: even a little costs a lot. J Trauma 62: 1362-1364, 2007
236. Prescott GJ, Metcalfe W, Baharani J, et al.: A prospective national study of acute renal failure treated with RRT: incidence, aetiology and outcomes. Nephrol Dial Transplant 22: 2513-2519, 2007
237. Newell MA, Bard MR, Goettler CE, et al.: Body mass index and outcomes in critically injured blunt trauma patients: weighing the impact. J Am Coll Surg 204: 1056-1061; discussion 1062-1054, 2007
238. Thombs BD, Singh VA, Halonen J, Diallo A and Milner SM: The effects of preexisting medical comorbidities on mortality and length of hospital stay in acute burn injury: evidence from a national sample of 31,338 adult patients. Ann Surg 245: 629-634, 2007
239. Akcan-Arikan A, Zappitelli M, Loftis LL, Washburn KK, Jefferson LS and Goldstein SL: Modified RIFLE criteria in critically ill children with acute kidney injury. Kidney Int 71: 1028-1035, 2007

240. Ali T, Khan I, Simpson W, et al.: Incidence and outcomes in acute kidney injury: a comprehensive population-based study. J Am Soc Nephrol 18: 1292-1298, 2007
241. Feldman DN, Minutello RM, Gade CL and Wong SC: Outcomes following immediate (ad hoc) versus staged percutaneous coronary interventions (report from the 2000 to 2001 New York State Angioplasty Registry). Am J Cardiol 99: 446-449, 2007
242. Hingorani S, Guthrie KA, Schoch G, Weiss NS and McDonald GB: Chronic kidney disease in long-term survivors of hematopoietic cell transplant. Bone Marrow Transplant 39: 223-229, 2007
243. Chittineni H, Miyawaki N, Gulipelli S and Fishbane S: Risk for acute renal failure in patients hospitalized for decompensated congestive heart failure. Am J Nephrol 27: 55-62, 2007
244. Bailey D, Phan V, Litalien C, et al.: Risk factors of acute renal failure in critically ill children: A prospective descriptive epidemiological study. Pediatr Crit Care Med 8: 29-35, 2007
245. Sakr Y, Payen D, Reinhart K, et al.: Effects of hydroxyethyl starch administration on renal function in critically ill patients. Br J Anaesth 98: 216-224, 2007
246. Banyasz I, Bokodi G, Vasarhelyi B, et al.: Genetic polymorphisms for vascular endothelial growth factor in perinatal complications. Eur Cytokine Netw 17: 266-270, 2006
247. Prakash J, Murthy AS, Vohra R, Rajak M and Mathur SK: Acute renal failure in the intensive care unit. J Assoc Physicians India 54: 784-788, 2006
248. Charytan DM and Marulkar S: Relationship of aortic atherosclerosis to acute renal failure following cardiac surgery. J Nephrol 19: 628-633, 2006
249. Plurad D, Brown C, Chan L, Demetriades D and Rhee P: Emergency department hypotension is not an independent risk factor for post-traumatic acute renal dysfunction. J Trauma 61: 1120-1127; discussion 1127-1128, 2006
250. Boyle JM, Moualla S, Arrigain S, et al.: Risks and outcomes of acute kidney injury requiring dialysis after cardiac transplantation. Am J Kidney Dis 48: 787-796, 2006
251. Schneider V, Levesque LE, Zhang B, Hutchinson T and Brophy JM: Association of selective and conventional nonsteroidal antiinflammatory drugs with acute renal failure: A population-based, nested case-control analysis. Am J Epidemiol 164: 881-889, 2006
252. Hein OV, Birnbaum J, Wernecke KD, Konertz W, Jain U and Spies C: Three-year survival after four major post-cardiac operative complications. Crit Care Med 34: 2729-2737, 2006
253. Sharma SK, McCauley J, Cottam D, et al.: Acute changes in renal function after laparoscopic gastric surgery for morbid obesity. Surg Obes Relat Dis 2: 389-392, 2006
254. Vachvanichsanong P, Dissaneewate P, Lim A and McNeil E: Childhood acute renal failure: 22-year experience in a university hospital in southern Thailand. Pediatrics 118: e786-791, 2006
255. Karkouti K, Yau TM, Riazi S, et al.: Determinants of complications with recombinant factor VIIa for refractory blood loss in cardiac surgery. Can J Anaesth 53: 802-809, 2006
256. Mahajan S, Tiwari S, Bhowmik D, Agarwal SK, Tiwari SC and Dash SC: Factors affecting the outcome of acute renal failure among the elderly population in India: a hospital based study. Int Urol Nephrol 38: 391-396, 2006
257. Heringlake M, Knappe M, Vargas Hein O, et al.: Renal dysfunction according to the ADQI-RIFLE system and clinical practice patterns after cardiac surgery in Germany. Minerva Anestesiol 72: 645-654, 2006
258. Ahlstrom A, Kuitunen A, Peltonen S, et al.: Comparison of 2 acute renal failure severity scores to general scoring systems in the critically ill. Am J Kidney Dis 48: 262-268, 2006
259. Mathur NB, Agarwal HS and Maria A: Acute renal failure in neonatal sepsis. Indian J Pediatr 73: 499-502, 2006
260. Black SA, Brooks MJ, Naidoo MN and Wolfe JH: Assessing the impact of renal impairment on outcome after arterial intervention: a prospective review of 1,559 patients. Eur J Vasc Endovasc Surg 32: 300-304, 2006

261. Uchino S, Bellomo R, Goldsmith D, Bates S and Ronco C: An assessment of the RIFLE criteria for acute renal failure in hospitalized patients. Crit Care Med 34: 1913-1917, 2006
262. Hoste EA, Clermont G, Kersten A, et al.: RIFLE criteria for acute kidney injury are associated with hospital mortality in critically ill patients: a cohort analysis. Crit Care 10: R73, 2006
263. Junge G, Schewior LV, Kohler S, et al.: Acute renal failure after liver transplantation: incidence, etiology, therapy, and outcome. Transplant Proc 38: 723-724, 2006
264. Wald R, Waikar SS, Liangos O, Pereira BJ, Chertow GM and Jaber BL: Acute renal failure after endovascular vs open repair of abdominal aortic aneurysm. J Vasc Surg 43: 460-466; discussion 466, 2006
265. Xue JL, Daniels F, Star RA, et al.: Incidence and mortality of acute renal failure in Medicare beneficiaries, 1992 to 2001. J Am Soc Nephrol 17: 1135-1142, 2006
266. Chan V, Jamieson WR, Chan F and Germann E: Valve replacement surgery complicated by acute renal failure--predictors of early mortality. J Card Surg 21: 139-143; discussion 144-135, 2006
267. Noyez L, Plesiewicz I and Verheugt FW: Estimated creatinine clearance instead of plasma creatinine level as prognostic test for postoperative renal function in patients undergoing coronary artery bypass surgery. Eur J Cardiothorac Surg 29: 461-465, 2006
268. Beaver TM, Winterstein AG, Shuster JJ, et al.: Effectiveness of nesiritide on dialysis or all-cause mortality in patients undergoing cardiothoracic surgery. Clin Cardiol 29: 18-24, 2006
269. Wyatt CM, Arons RR, Klotman PE and Klotman ME: Acute renal failure in hospitalized patients with HIV: risk factors and impact on in-hospital mortality. AIDS 20: 561-565, 2006
270. Kuitunen A, Vento A, Suojaranta-Ylinen R and Pettila V: Acute renal failure after cardiac surgery: evaluation of the RIFLE classification. Ann Thorac Surg 81: 542-546, 2006
271. Wijeysundera DN, Karkouti K, Beattie WS, Rao V and Ivanov J: Improving the identification of patients at risk of postoperative renal failure after cardiac surgery. Anesthesiology 104: 65-72, 2006
272. Landoni G, Zangrillo A, Franco A, et al.: Long-term outcome of patients who require renal replacement therapy after cardiac surgery. Eur J Anaesthesiol 23: 17-22, 2006
273. Bah AO, Kaba ML, Diallo MB, et al.: [Renal diseases--morbidity and mortality in Nephrology Service, National Hospital Donka]. Mali Med 21: 42-46, 2006
274. Gamborgi GP, Metcalf EB and Barros EJ: Acute renal failure provoked by toxin from caterpillars of the species Lonomia obliqua. Toxicon 47: 68-74, 2006
275. Conen D, Buerkle G, Perruchoud AP, Buettner HJ and Mueller C: Hypertension is an independent risk factor for contrast nephropathy after percutaneous coronary intervention. Int J Cardiol 110: 237-241, 2006
276. Bahar I, Akgul A, Ozatik MA, et al.: Acute renal failure following open heart surgery: risk factors and prognosis. Perfusion 20: 317-322, 2005
277. Ranucci M, Romitti F, Isgro G, et al.: Oxygen delivery during cardiopulmonary bypass and acute renal failure after coronary operations. Ann Thorac Surg 80: 2213-2220, 2005
278. Bagshaw SM, Laupland KB, Doig CJ, et al.: Prognosis for long-term survival and renal recovery in critically ill patients with severe acute renal failure: a population-based study. Crit Care 9: R700-709, 2005
279. Ciesla DJ, Moore EE, Johnson JL, Burch JM, Cothren CC and Sauaia A: The role of the lung in postinjury multiple organ failure. Surgery 138: 749-757; discussion 757-748, 2005
280. Cataldi L, Leone R, Moretti U, et al.: Potential risk factors for the development of acute renal failure in preterm newborn infants: a case-control study. Arch Dis Child Fetal Neonatal Ed 90: F514-519, 2005
281. Kincaid EH, Ashburn DA, Hoyle JR, Reichert MG, Hammon JW and Kon ND: Does the combination of aprotinin and angiotensin-converting enzyme inhibitor cause renal failure after cardiac surgery? Ann Thorac Surg 80: 1388-1393; discussion 1393, 2005
282. Baskin E, Saygili A, Harmanci K, et al.: Acute renal failure and mortality after open-heart surgery in infants. Ren Fail 27: 557-560, 2005

283. Hollenbeck BK, Miller DC, Taub D, et al.: Identifying risk factors for potentially avoidable complications following radical cystectomy. J Urol 174: 1231-1237; discussion 1237, 2005
284. Carter R, 3rd, Cheuvront SN, Williams JO, et al.: Epidemiology of hospitalizations and deaths from heat illness in soldiers. Med Sci Sports Exerc 37: 1338-1344, 2005
285. Uchino S, Kellum JA, Bellomo R, et al.: Acute renal failure in critically ill patients: a multinational, multicenter study. JAMA 294: 813-818, 2005
286. Kubal C, Srinivasan AK, Grayson AD, Fabri BM and Chalmers JA: Effect of risk-adjusted diabetes on mortality and morbidity after coronary artery bypass surgery. Ann Thorac Surg 79: 1570-1576, 2005
287. Franceschini N, Napravnik S, Eron JJ, Jr., Szczech LA and Finn WF: Incidence and etiology of acute renal failure among ambulatory HIV-infected patients. Kidney Int 67: 1526-1531, 2005
288. Huerta C, Castellsague J, Varas-Lorenzo C and Garcia Rodriguez LA: Nonsteroidal anti-inflammatory drugs and risk of ARF in the general population. Am J Kidney Dis 45: 531-539, 2005
289. Gaudino M, Luciani N, Giungi S, et al.: Different profiles of patients who require dialysis after cardiac surgery. Ann Thorac Surg 79: 825-829; author reply 829-830, 2005
290. Conlon PJ, Crowley J, Stack R, et al.: Renal artery stenosis is not associated with the development of acute renal failure following coronary artery bypass grafting. Ren Fail 27: 81-86, 2005
291. Thakar CV, Worley S, Arrigain S, Yared JP and Paganini EP: Influence of renal dysfunction on mortality after cardiac surgery: modifying effect of preoperative renal function. Kidney Int 67: 1112-1119, 2005
292. Ostermann ME and Chang RW: Prognosis of acute renal failure: an evaluation of proposed consensus criteria. Intensive Care Med 31: 250-256, 2005
293. Karkouti K, Beattie WS, Wijeysundera DN, et al.: Hemodilution during cardiopulmonary bypass is an independent risk factor for acute renal failure in adult cardiac surgery. J Thorac Cardiovasc Surg 129: 391-400, 2005
294. Chu KH, Tsang WK, Tang CS, et al.: Acute renal impairment in coronavirus-associated severe acute respiratory syndrome. Kidney Int 67: 698-705, 2005
295. Bell M, Liljestam E, Granath F, Fryckstedt J, Ekbom A and Martling CR: Optimal follow-up time after continuous renal replacement therapy in actual renal failure patients stratified with the RIFLE criteria. Nephrol Dial Transplant 20: 354-360, 2005
296. Khilji SA and Khan AH: Acute renal failure after cardiopulmonary bypass surgery. J Ayub Med Coll Abbottabad 16: 25-28, 2004
297. Miraoui W, Mebazaa M, Frikha N and Ben Ammar MS: [Isolated acute renal failure is not associated to an increase in mortality of patients in intensive care units]. Tunis Med 82: 996-1000, 2004
298. Wyatt CM and Arons RR: The burden of acute renal failure in nonrenal solid organ transplantation. Transplantation 78: 1351-1355, 2004
299. Srinivasan AK, Grayson AD and Fabri BM: On-pump versus off-pump coronary artery bypass grafting in diabetic patients: a propensity score analysis. Ann Thorac Surg 78: 1604-1609, 2004
300. Mariani MA, D'Alfonso A and Grandjean JG: Total arterial off-pump coronary surgery: time to change our habits? Ann Thorac Surg 78: 1591-1597, 2004
301. Bove T, Calabro MG, Landoni G, et al.: The incidence and risk of acute renal failure after cardiac surgery. J Cardiothorac Vasc Anesth 18: 442-445, 2004
302. Collins JS, Evangelista A, Nienaber CA, et al.: Differences in clinical presentation, management, and outcomes of acute type a aortic dissection in patients with and without previous cardiac surgery. Circulation 110: II237-242, 2004
303. Agras PI, Tarcan A, Baskin E, Cengiz N, Gurakan B and Saatci U: Acute renal failure in the neonatal period. Ren Fail 26: 305-309, 2004

304. Moran SL, Salgado CJ and Serletti JM: Free tissue transfer in patients with renal disease. Plast Reconstr Surg 113: 2006-2011, 2004
305. Brown CV, Rhee P, Chan L, Evans K, Demetriades D and Velmahos GC: Preventing renal failure in patients with rhabdomyolysis: do bicarbonate and mannitol make a difference? J Trauma 56: 1191-1196, 2004
306. Paramesh AS, Roayaie S, Doan Y, et al.: Post-liver transplant acute renal failure: factors predicting development of end-stage renal disease. Clin Transplant 18: 94-99, 2004
307. Mueller C, Buerkle G, Perruchoud AP and Buettner HJ: Female sex and risk of contrast nephropathy after percutaneous coronary intervention. Can J Cardiol 20: 505-509, 2004
308. Stallwood MI, Grayson AD, Mills K and Scawn ND: Acute renal failure in coronary artery bypass surgery: independent effect of cardiopulmonary bypass. Ann Thorac Surg 77: 968-972, 2004
309. Esteban A, Anzueto A, Frutos-Vivar F, et al.: Outcome of older patients receiving mechanical ventilation. Intensive Care Med 30: 639-646, 2004
310. Michael M, Kuehnle I and Goldstein SL: Fluid overload and acute renal failure in pediatric stem cell transplant patients. Pediatr Nephrol 19: 91-95, 2004