

Supplementary Table 1: Risk factors for postoperative acute kidney injury (AKI) following CRS and HIPEC. Associations were estimated using multiple logistic regression with backward sensitivity analyses.

	No AKI (n=58)	AKI (n=61)	Multivariate Analysis Sensitivity test.	Multivariate Analysis Sensitivity test <i>P</i> value < 0.2	Multivariate Analysis Sensitivity test <i>P</i> value < 0.1			
			P value	OR 95% CI	P value	OR 95% CI	P value	OR 95% CI
Sodium Thiosulfate:								
• No	25	48						
• Yes	33	13	<0.001	0.05 (0.01-0.27)	<0.001	0.07 (0.02-0.24)	<0.001	0.07 (0.02-0.24)
Age:								
• ≤ 59	25	27						
• > 59	33	34	0.99	1.01 (0.35-2.96)				
Sex:								
• Male	29	30	Ref					
• Female	29	31	0.57	1.41 (0.44-4.49)				
PCI score:								
• 0-8	40	27	Ref					
• 9-15	14	17	0.24	2.22 (0.59-8.41)	0.10	2.53 (0.83-7.75)	0.10	2.53 (0.83-7.75)
• >15	4	17	0.02	9.76 (1.37-69.4)	0.004	8.82 (2.04-38.1)	0.004	8.82 (2.04-38.1)
Comorbidities*:								
• 0	24	25	Ref					
• 1	16	21	0.40	1.71 (0.49-5.92)				
• ≥2	18	15	0.76	1.21 (0.36-4.10)				
Reduced IP dose:								
• No	40	42	Ref					
• Yes	18	19	0.06	0.29 (0.08-1.06)	0.04	0.32 (0.10-0.97)	0.04	0.32 (0.10-0.97)
Operation time:								

• ≤ 537 minutes	39	21	Ref						
• > 537 minutes	19	40	0.51	1.59 (0.41-6.17)					
Intraoperative bleeding:									
• ≤ 600 ml	35	30	ref						
• > 600 ml	23	31	0.36	1.67 (0.56-4.88)					
Intraoperative hypotension (min):									
• None	34	28	ref						
• 0-7.12	8	7	0.53	0.57 (0.10-3.29)	0.62	0.67 (0.15-3.11)	0.62	0.69 (0.15-3.11)	
• > 7.12	15	26	0.05	3.33 (1.02-10.8)	0.02	3.66 (1.24-10.8)	0.02	3.66 (1.24-10.8)	
Lactic acid:									
• < 2.4	34	28	Ref						
• ≥ 2.4	24	33	0.60	0.72 (0.21-2.44)					
Postoperative Inotropy:									
• ≤ 32 hours	35	37	Ref						
• > 32 hours	21	22	0.41	0.64 (0.22-1.85)					
Number of GI anastomosis:									
• 0	24	23	Ref						
• 1	28	29	1.00	1.00 (0.31-3.22)					
• 2	4	5	0.62	0.57 (0.06-5.42)					
• >2	2	4	0.73	0.03 (0.03-11.1)					
Stoma formation:									
• No	32	29	Ref						
• Yes	24	29	0.68	0.78 (0.23-2.59)	0.85	0.91 (0.35-2.38)	0.85	0.91 (0.35-2.38)	
• Has prior to surgery	2	3	0.04	15.0 (1.11-204)	0.03	14.6 (1.36-158)	0.03	14.6 (1.36-158)	

Complications:									
• No complication	31	28	Ref						
• <3b	24	22	0.03	0.26 (0.07-0.90)	0.03	0.30 (0.10-0.88)	0.03	0.30 (0.10-0.88)	
• ≥3b	3	11	0.13	5.18 (0.60-44.4)	0.10	5.20 (0.75-36.0)	0.10	5.20 (0.75-36.0)	

*Diabetes mellitus, hypertension, smoking, BMI≥30, history of myocardial infarction or peripheral arterial insufficiency.

Supplementary table 2: Risk factors for postoperative acute kidney injury (AKI) following CRS and HIPEC. Estimated by multiple logistic regression with adjustment for the most influencing factors showed in supplementary table 1.

	No AKI (<i>n</i> =58)	AKI (<i>n</i> =61)	Univariable Analysis		Multivariate Analysis	
			<i>P</i> value	OR 95% CI	<i>P</i> value	OR 95% CI
Sodium Thiosulfate:						
• No	25	48				
• Yes	33	13	<0.001	0.21 (0.09-0.46)	<0.001	0.17 (0.06-0.48)
PCI score:						
• 0-8	40	27	Ref			
• 9-15	14	17	0.18	1.80 (0.76-4.25)	0.35	1.68 (0.57-5.01)
• >15	4	17	0.003	6.30 (1.91-20.8)	0.05	4.36 (1.03-18.6)
Reduced IP dose:						
• No	40	42				
• Yes	18	19	0.99	1.01 (0.46-2.19)		
Intraoperative hypotension (min):						
• None	34	28	Ref			
• 0-7.12	8	7	0.92	1.06 (0.34-3.29)	0.60	0.68 (0.16-2.87)
• > 7.12	15	26	0.07	2.11 (0.94-4.76)	0.06	2.59 (0.96-6.96)

Complications:

• No complication	31	28	Ref			
• <3b	24	22	0.97	1.16 (0.47-2.20)	0.09	0.41 (0.15-1.14)
• ≥3b	3	11	0.05	4.06 (1.03-16.1)	0.11	4.57 (0.70-29.7)

Operation time:

• ≤ 537 minutes	39	21				
• > 537 minutes	19	40	<0.001	3.91 (1.83-8.37)	0.48	1.48 (0.49-4.48)

Intraoperative

bleeding:

• ≤ 600 ml	35	30				
• > 600 ml	23	31	0.22	1.57 (0.76-3.25)		

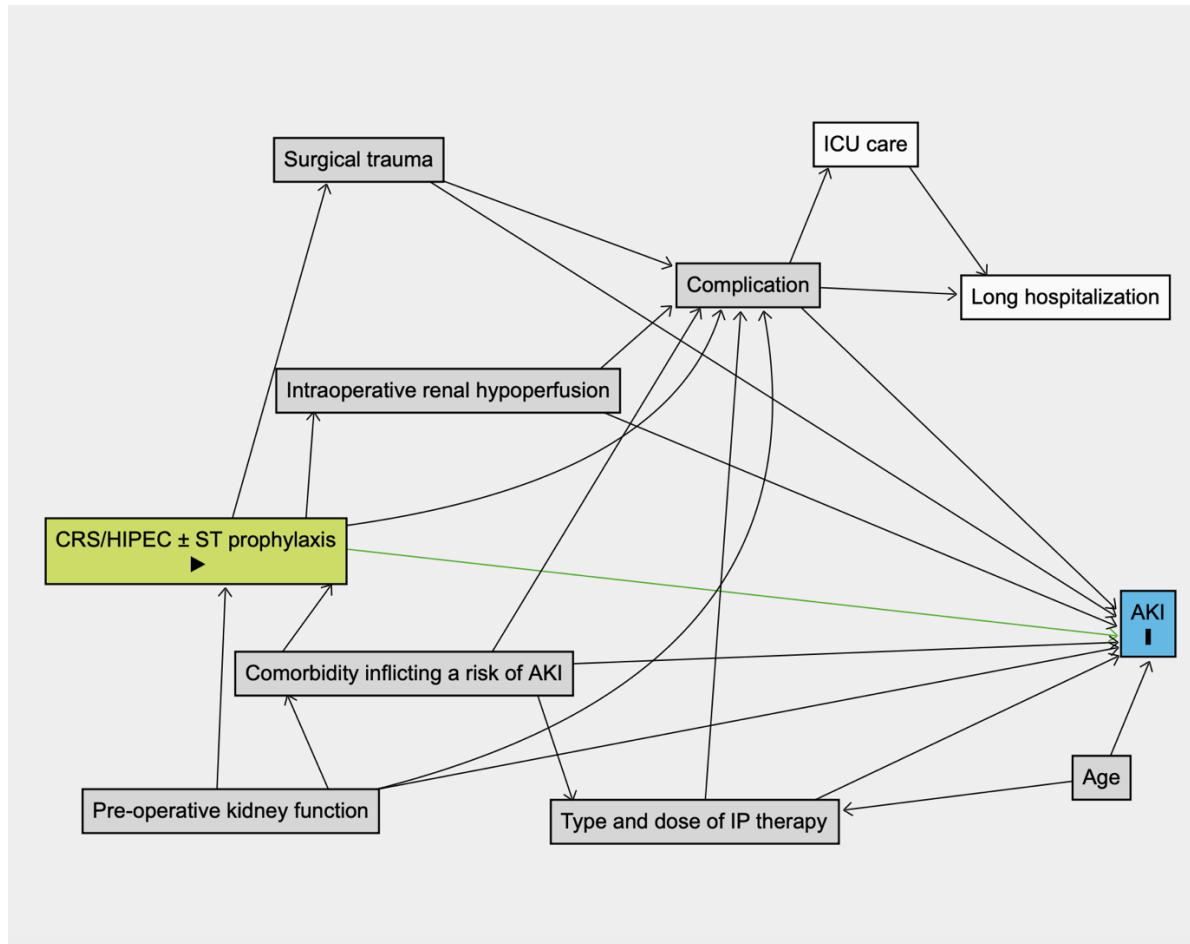
Supplementary Table 3. Proportion of postoperative complications stratified on perioperative treatment with prophylactic sodium thiosulfate (ST) or not (nST). Risks estimated by univariate regression analysis.

	nST <i>n</i> = 73 (%)	ST <i>n</i> =46 (%)	OR 95% CI
Complications			
• None	28 (38)	31 (67)	Ref
• <3b	35 (48)	11 (24)	0.28 (0.12-0.66)
• ≥ 3b	10 (14)	4 (9)	0.36 (0.10-1.28)
Type of Complications:			
• None	28 (38)	31 (67)	Ref
• Bowel Failure	3 (4)	2 (4)	0.60 (0.09-3.87)
• DVT	0 (0)	1 (2)	NA
• Intraabdominal infections	5 (7)	4 (9)	0.72 (0.18-2.96)
• PE	3 (4)	2 (4)	0.60 (0.09-3.87)
• Wound infections	8 (11)	0 (0)	NA
• Pneumonia	1 (1)	0 (0)	NA
• UTI	3 (4)	0 (0)	NA
• Plural effusion	3 (4)	0 (0)	NA
• Bleeding	7 (10)	1 (2)	0.23 (0.02-2.14)
• Fever	8 (11)	2 (4)	0.1 (0.50-1.35)

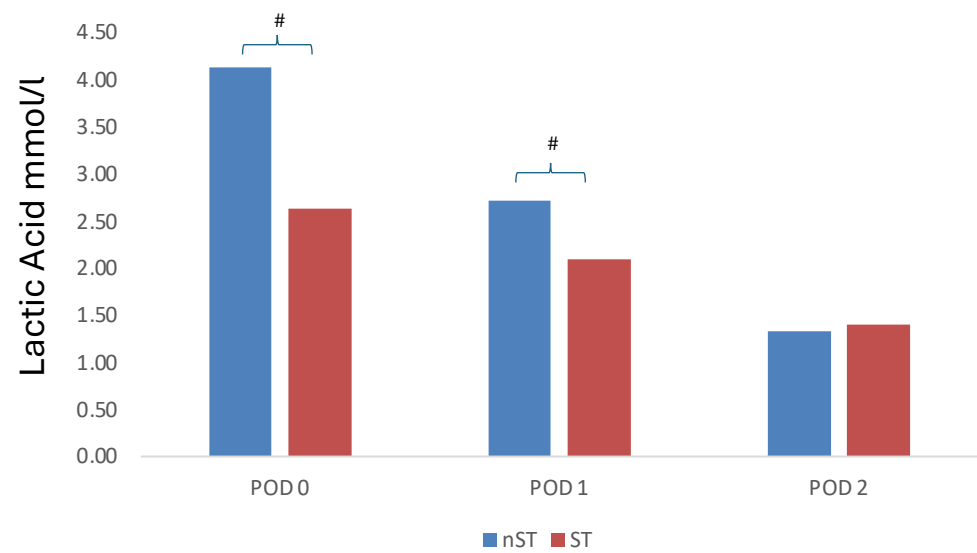
• Others		7 (10)	3 (7)	0.34 (0.08-1.40)
• Leukopenia		7 (10)	0 (0)	0.59 (0.51-0.69)
• Days in ICU >2		15 (21)	6 (13)	0.58 (0.21-1.62)
• Median	length	17 [13-24]	12 [9-16]	< 0.001 *
hospitalization				

* Mann Whittney test.

Suppl Fig 1: Direct Acyclic Graph (DAG) for risk factors for development of AKI

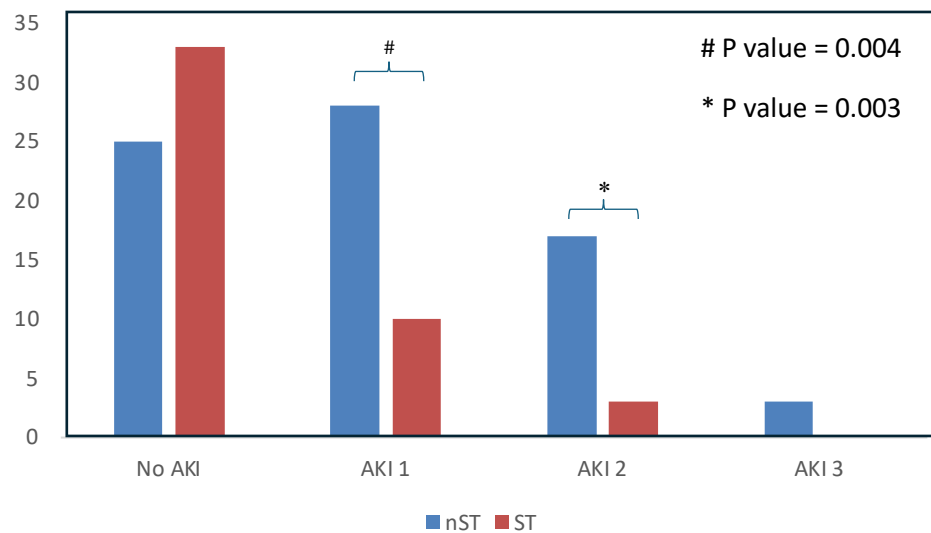


Suppl Fig 2. Mean peak lactic acid serum levels, 48 hours postoperatively, stratified on perioperative treatment with prophylactic Sodium Thiosulphate (ST) or not (nST)



p <0.001(Mann Whitney test)

Suppl Fig 3. Prevalence of acute kidney injury (AKI), grade 0 -3, stratified on perioperative treatment with prophylactic sodium thiosulfate (ST), n = 46 or not (nST), n = 73.



Suppl Fig 4. Proportion of postoperative acute kidney injury (AKI) depending on prophylactic perioperative treatment with sodium thiosulfate (ST) or not (nST), stratified on preoperative kidney function, according to KDIGO classification of estimated Glomerular Fraction Rate (G1-G3b).

