**Evidence Table E-12. Changes in serum creatinine outcomes in studies comparing of IV sodium bicarbonate and IV saline**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author year** | **Measure** | **SG** | **Intervention** | **Arm** | **Base-line N anal-yzed** | **Mean base-line value (SD)** | **Time point 1** | **Time point 1 N anal-yzed** | **Mean (SD)** | **Comparison\* statistics at time point 1** | **Time point 2** | **Time point 2 N anal-yzed** | **Mean (SD)** | **Comparison\* statistics at time point 2** |
| Adolph, 2008[134](#_ENREF_134) | Short term |   | Saline plus dextrose  | 1 | 74 | Mean (.35) (Max: 2.60Min: 1.20) | 2 days | 74 | Mean (.40) (Max: 3.14Min: 1.05) | p=NS |  |  |  |  |
| Adolph, 2008[134](#_ENREF_134) | Short term |   | Bicarbonate plus dextrose | 2 | 71 | Mean (0.51) (Max: 4.60Min: 1.20) |  | 71 | Mean (.52) (Max: 4.86Min: 0.99) |  |  |  |  |  |
| Kooiman, 2014[65](#_ENREF_65) | Mean increase in SCr from baseline, % |  | Normal saline | 1 |  |  | 48-96 hours | 273 | 1.5(14.2) | Mean difference: -0.3% (95% CI: -2.7-2.1) P<0.0001 |  |  |  |  |
| Kooiman, 2014[65](#_ENREF_65) | Mean increase in SCr from baseline, % |  | IV Sodium Bicarbonate + normal saline | 2 |  |  |  | 263 | 1.2(13.3 |  |  |  |  |  |
| Yeganehkhah, 2014[117](#_ENREF_117) | Serum Creatinine levels |  | IV NS | 1 | 50 | 1.08 (0.32) | 48 | 50 | 1.13 (0.28) | 0.039 |  |  |  |  |
| Yeganehkhah, 2014[117](#_ENREF_117) | Serum Creatinine levels |  | NaHCO3 + IV NS | 2 | 50 | 1.17 (0.32) |  | 50 | 1.19 (0.33) | 0.624 |  |  |  |  |

%=percent; CrCl=creatinine clearance; eGFR=estimated glomerular filtration rate; H=hour; IQR=interquartile range; LVEF=left ventricular ejection fraction; Max=maximum; Mg/dl=milligram per deciliter; Min=minimum; Ml/min=milliliter perminute; N=sample size; NAC=N-acetylcysteine; NaCl=sodium chloride; NR=not reported; NS=non-significant; P=p-value; SD=standard deviation; SG=subgroups; SrCr=serum creatinine; Umol/l=micromole per liter; V=versus;