

SUPPLEMENTARY MATERIAL

Restrictive fluid management with early de-escalation versus usual care in critically ill patients (REDUCE trial): a feasibility randomized controlled trial

Table S1 Mean daily fluid balance during the first 7 days after randomization

Table S2 Sources of fluid administration during the first 3 days after randomization

Table S3 Urine output and diuretic use during the first 3 days after randomization

Figure. S1 Mean daily fluid balance over the first 7 days after randomization

Figure. S2 Sources of fluid administration and urine output during the first 3 days after randomization

Figure. S3 Kaplan–Meier survival curve for 30-day mortality

Figure. S4 Intervention protocol

Figure. S5 Fluid removal protocol

Table S1 Mean daily fluid balance during the first 7 days after randomization

Day	Standard arm (n = 50)	Intervention arm (n = 50)	<i>p</i> value
Fluid balance on day 1	409.00 (−108.00, 1143.75)	−765.50 (−1560.75, 34.75)	<0.001
Fluid balance on day 2	275.00 (−203.25, 721.00)	−752.50 (−1656.25, −270.50)	<0.001
Fluid balance on day 3	226.00 (−337.75, 680.25)	−772.50 (−1359.75, −43.75)	<0.001
Fluid balance on day 4	351.00 (−400.00, 792.00)	−645.00 (−1290.00, 72.00)	<0.001
Fluid balance on day 5	105.50 (−616.25, 615.75)	−242.50 (−772.75, 404.50)	0.186
Fluid balance on day 6	−115.00 (−630.00, 459.00)	−125.00 (−759.75, 490.00)	0.940
Fluid balance on day 7	−172.50 (−683.00, 593.50)	−150.00 (−585.00, 536.50)	0.927

Table S2 Sources of fluid administration during the first 3 days after randomization

Variables	Standard arm (n = 50)	Intervention arm (n = 50)	p value
Resuscitation fluid, ml*	71.40 ± 264.42	0.00 ± 0.00	0.059
Maintenance fluid, ml	951.60 ± 1552.51	154.30 ± 417.23	0.001
IV fluid for medication and fluid creep, ml	3339.72 ± 1635.44	2640.62 ± 1274.43	0.019
Blood component, ml	413.14 ± 782.36	318.16 ± 752.41	0.538
Oral nutritional fluid and medication, ml	2297.78 ± 1279.21	2338.30 ± 969.03	0.859

Abbreviations: IV, intravenous

* Only four patients in the standard arm received fluid resuscitation after randomization during the first 3 days

Table S3 Urine output and diuretic use during the first 3 days after randomization

Variables	Standard arm (N = 50)	Intervention arm (N =50)	p value
Urine day 1	1625.00 (1196.25, 2337.50)	2417.50 (1572.50, 3216.25)	0.004
Urine day 2	1455.00 (1138.75, 2202.50)	2320.00 (1711.25, 2908.75)	0.002
Urine day 3	1600.00 (1023.75, 2062.50)	2142.50 (1595.00, 2737.50)	0.008
Total urine in 3 days	4658.50 (3741.25, 6710.00)	7190.00 (5683.75, 8542.50)	<0.001
Furosemide day 1	25.00 (20.00, 40.00)	40.00 (20.00, 80.00)	0.816
n (%)	22 (44.0)	29 (58.0)	0.230
Furosemide dose day 2	25.00 (10.00, 45.00)	20.00 (20.00, 80.00)	0.635
n (%)	19 (38.0)	29 (58.0)	0.072
Furosemide dose day 3	25.00 (12.50, 40.00)	25.00 (20.00, 45.00)	0.664
n (%)	18 (36.0)	20 (40.0)	0.837

Fig. S1 Mean daily fluid balance over the first 7 days after randomization

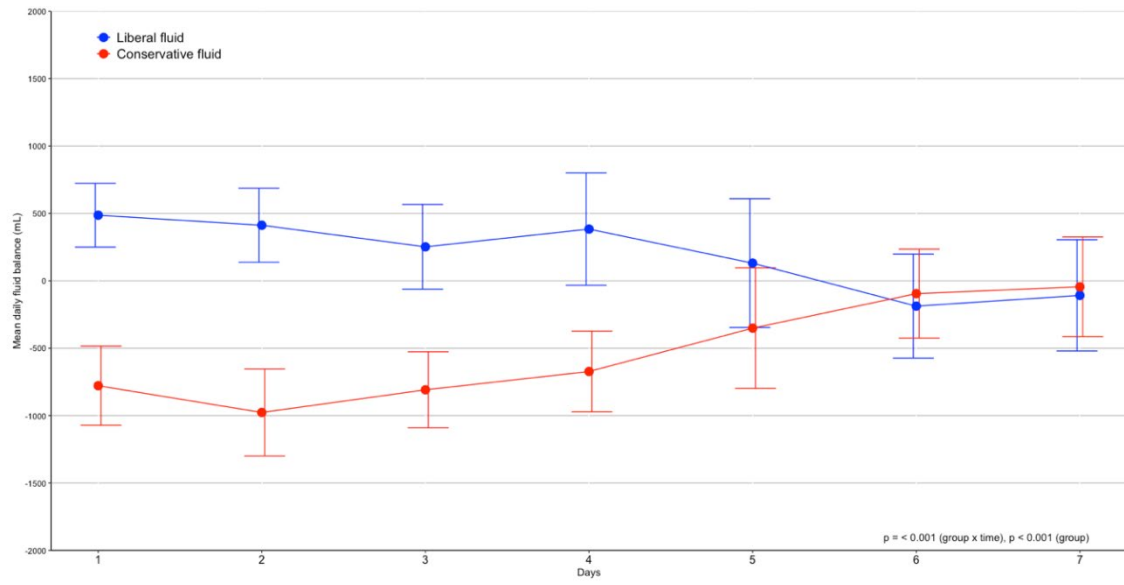


Fig. S2 Sources of fluid administration and urine output during the first 3 days after randomization

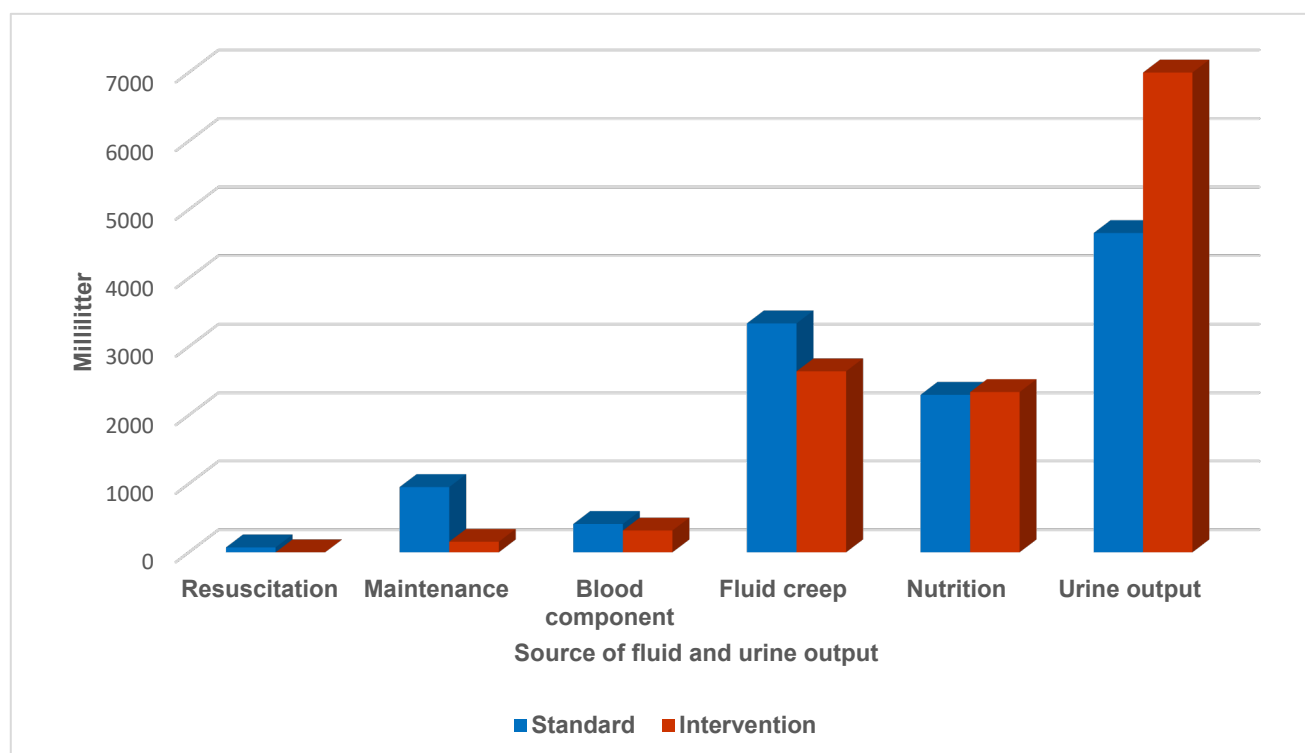
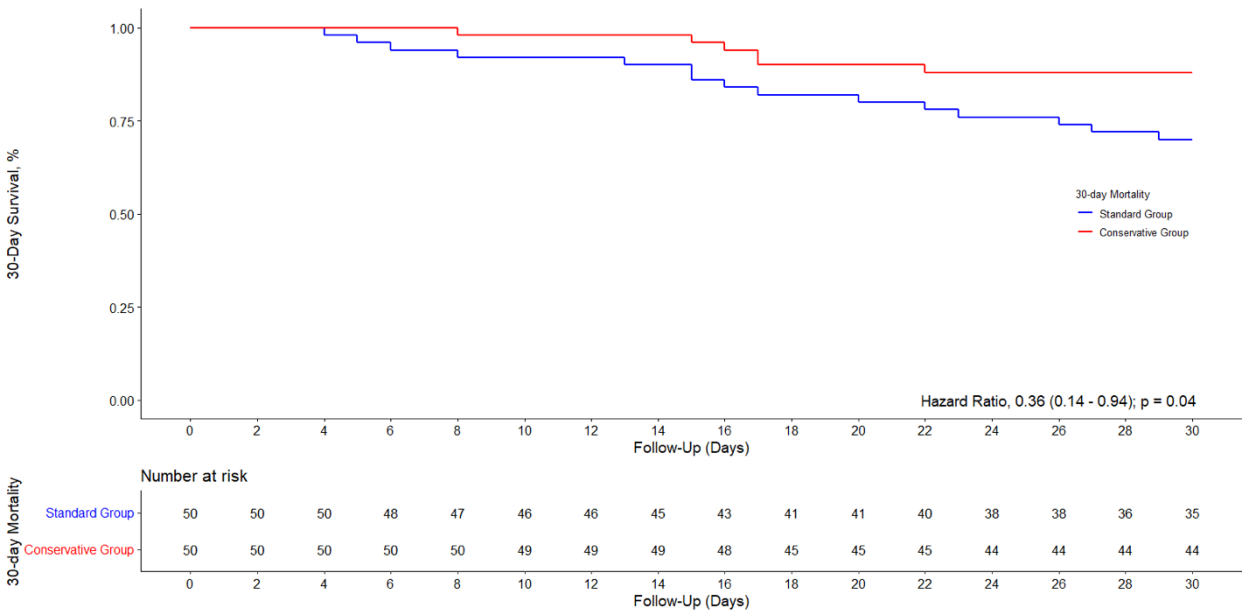


Fig. S3 Kaplan–Meier survival curve for 30-day mortality



Fi S4. Intervention protocol

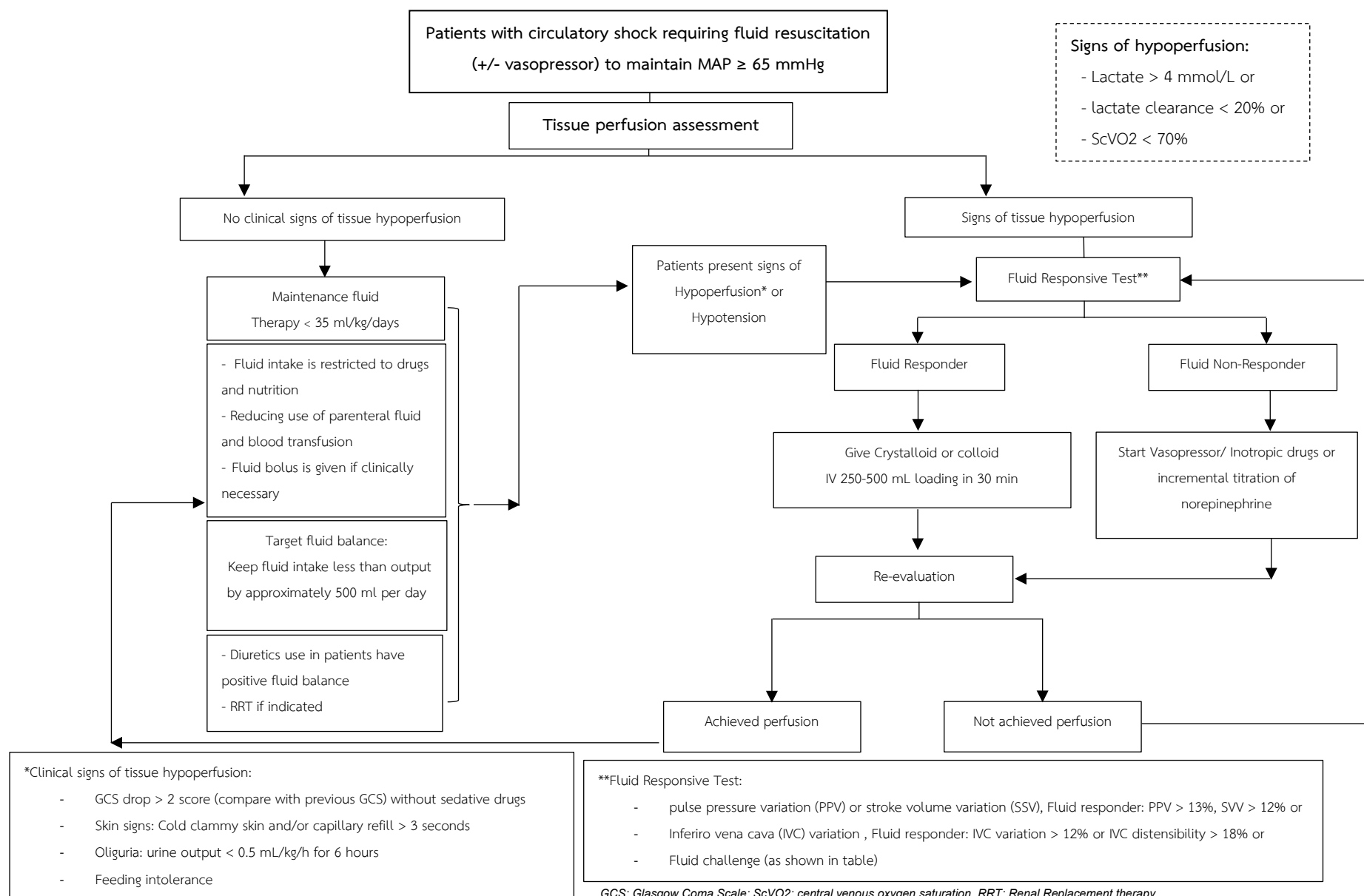


Fig. S5. Fluid removal protocol

