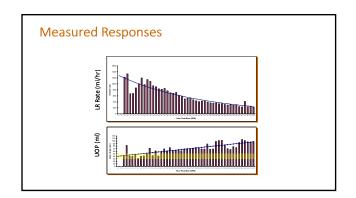


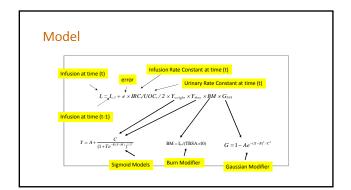


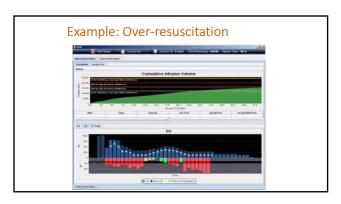
Outcomes			
	Control Group (n=62)	BRG Group (n=56)	<i>p</i> value
Extremity Fasciotomies	68%	80%	0.1705
Myonecrosis	30%	27%	0.6439
ACS	16%	5%	0.06201
Mortality	31%	18%	0.1071
Composite Endpoint (ACS+Mortality)	36%	18%	0.0315
		1	

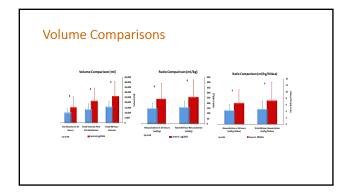
Hypothesis

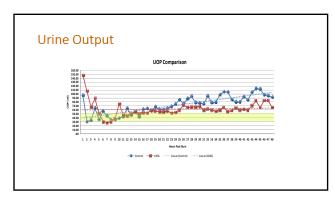
 The use of information technology coupled with computer decision support systems (CDSS) provides better fluid management for severely burned patients during resuscitation and leads to better outcomes.

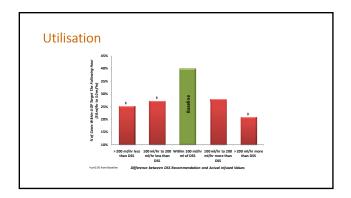


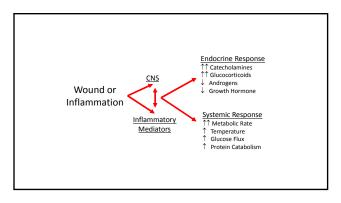


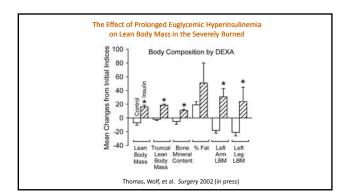


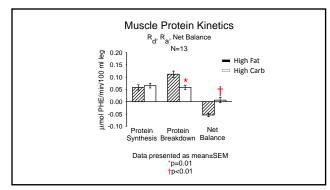


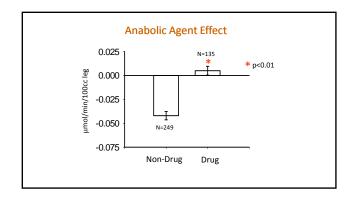


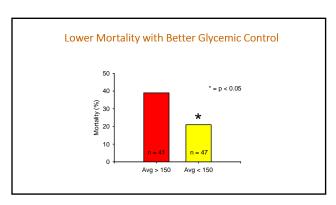


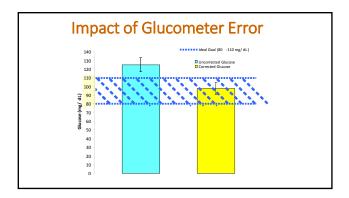


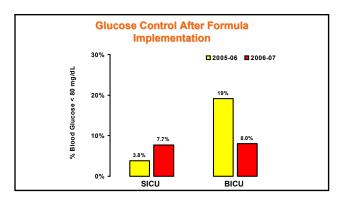


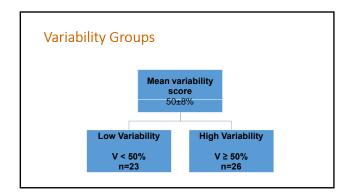


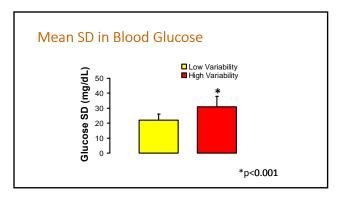


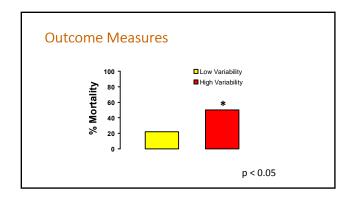


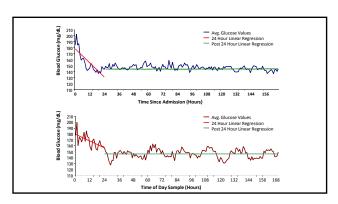


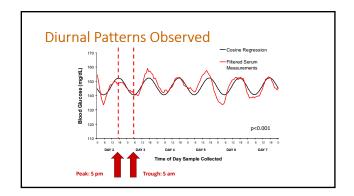


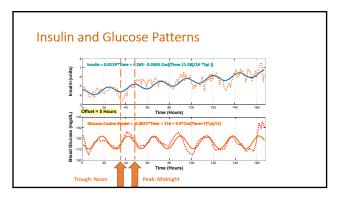


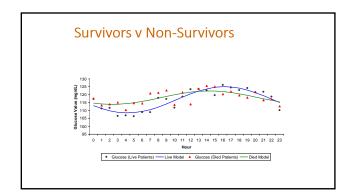




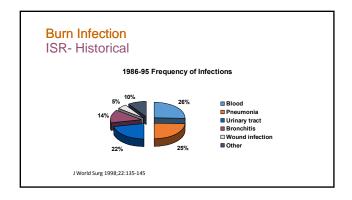


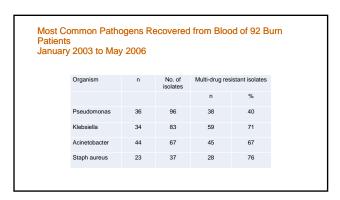






Causes of Death in Burns Immolation and overwhelming damage at the site of injury, with relatively immediate death Death in the first few hours/days due to overwhelming organ dysfunction associated with burn shock Death due to medical error at some time during the hospital course Development of progressive multiple organ failure with or without infection, highlighted by the development of acute respiratory distress syndrome Development of overwhelming infectious sepsis from the burn wound or other source in the days/weeks following injury. This form is highlighted by cardiovascular collapse





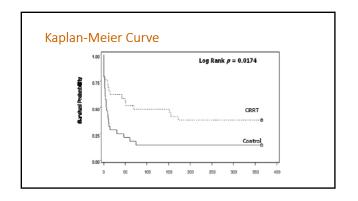
Predictors of Mortality for Bacteremic Burn Patients Risk factor Univariate Multivariate 95% CI 95% CI Injury Severity Score 1.05 1.01-1.08 0.01 1.08 1.03-1.13 < 0.01 Bacteremia with more than one organism Multiple episodes of bacteremia 1.92 0.82-4.53 0.14 0.12-1.03 0.051 1.13-6.83 0.96-5.3 0.06 0.30-2.06

Clinical Predictors Correlation of Vital Signs Mean Maximal Temperature (°F) Time of Previous Previous Previous Previous culture 0-6 hours 6-12 12-18 18-24 hours hours hours Blood 101.4 101.9 100.9 101.0 100.8 culture (2.0)(1.7)(1.6)(1.5)growth No blood 101.5 102.0 101.1 101.1 101.2 culture (1.7)(1.5)(1.3)(1.3)(1.5)growth () - standard deviation

100 **Clinical Predictors** Correlation of Vital Signs WBC (10³ cells/mm³) Neutrophil Percent Time of Previous Time of Previous culture 24 hours culture 24 hours Positive 13.1 83.2 82.9 (8.1) culture Negative 13.9 80.1 80.4 blood (7.7)(7.4)(9.5)(8.0)culture () - standard deviation



• Time-cycled





	HFPV (n=31)	Conventional (n=31)	p value
Vent Free days*	(n=31) 12+/-9	11+/-9	ns
Days Free of MODS*	15+/-11	15+/-10	ns
•			
Death (%)	6 (19)	6 (19)	ns
Rescue (%)	2 (6)	9 (29)	0.02
VAP (%)	10 (32)	16 (52)	0.12
Barotrauma (%)	0 (0)	4 (13)	0.04

Ideal Skin Substitute

- •Ready off the shelf
- Easy handling
- •Excellent graft take
- •Doesn't scar
- No donor sites