- 1. Prevalence of citrulline depletion ($<11\mu M$) at GLN enrollment: 58/146 = 39.7 % [32.2 47.8]
- 2. Baseline citrulline vs. In-Hospital Mortality

Baseline Citrulline Leve	l Survivors	Non-Survivors	Odds Ratio	Trend Test p-value
Citrulline< 8µm	26/123(21.1%)	5/23(21.7%)	1.64[0.40-6.70]	0.92
Citrulline= 8∼ 12µm	33/123(26.8%)	3/23(13.0%)	0.77[0.16-3.72]	
Citrulline= 12~ 17µm	30/123(24.4%)	11/23(47.8%)	3.12[0.90-10.83]	
Citrulline>= 17μm	34/123(27.6%)	4/23(17.4%)	1.00	

3. Baseline citrulline vs. 6-Month Mortality

Baseline Citrulline Level	l Survivors	Non-Survivors	Odds Ratio	Trend Test p-value
Citrulline< 8µm	25/102(24.5%)	6/44(13.6%)	0.46[0.15-1.41]	0.067
Citrulline= 8∼ 12µm	28/102(27.4%)	8/44(18.2%)	0.55[0.20-1.54]	
Citrulline= 12∼ 17µm	24/102(23.5%)	17/44(38.6%)	1.36[0.55-3.40]	
Citrulline>= 17µm	25/102(24.5%)	13/44(29.6%)	1.00	

4. Baseline citrulline vs. Apache II score at Randomization

Baseline Citrulline Level APACHE <=15 APACHE >15			Odds Ratio	Trend Test p-value
Citrulline< 8µm	19/70(27.1%)	12/76(15.8%)	0.41[0.16-1.09]	0.16
Citrulline= 8∼ 12µm	15/70(21.4%)	21/76(27.6%)	0.91[0.36-2.31]	
Citrulline= 12∼ 17µm	21/70(30.0%)	20/76(26.3%)	0.62[0.25-1.52]	
Citrulline>= 17μm	15/70(21.4%)	23/76(30.3%)	1.00	

5. Baseline citrulline vs. SOFA score at Randomization

Baseline Citrulline Level	SOFA<=6	SOFA >6	Odds Ratio	Trend Test p-value
Citrulline< 8µm	19/76(25.0%)	12/70(17.1%)	0.51[0.20-1.34]	0.10
Citrulline= 8~ 12μm	21/76(27.6%)	15/70(21.4%)	0.58[0.23-1.45]	
Citrulline= 12∼ 17µm	19/76(25.0%)	22/70(31.4%)	0.94[0.39-2.27]	
Citrulline>= 17µm	17/76(22.4%)	21/70(30.0%)	1.00	

6. Baseline citrulline vs. Incidence of BSI

Baseline Citrulline Leve	l BSI=No	BSI=Yes	Odds Ratio	Trend Test p-value
Citrulline< 8µm	25/119(21.0%) 6/27(22.2%)	1.28[0.37-4.45]	0.71
Citrulline= 8~ 12μm	29/119(24.4%)7/27(25.9%)	1.29[0.39-4.28]	
Citrulline= 12∼ 17µm	33/119(27.7%)8/27(29.6%)	1.29[0.40-4.14]	
Citrulline>= 17μm	32/119(26.9%) 6/27(22.2%)	1.00	

7. Baseline citrulline vs. Incidence of Pneumonia

Baseline Citrulline Level	Pneumonia =No l	Pneumonia =Yes	Odds Ratio	Trend Test p-value
Citrulline< 8µm	27/125(21.0%)	4/21(22.2%)	0.66[0.17-2.49]	0.57
Citrulline= 8∼ 12µm	31/125(24.4%)	5/21(25.9%)	0.71[0.20-2.50]	
Citrulline= 12∼ 17µm	36/125(27.7%)	5/21(29.6%)	0.62[0.18-2.13]	
Citrulline>= 17µm	31/125(26.9%)	7/21(22.2%)	1.00	

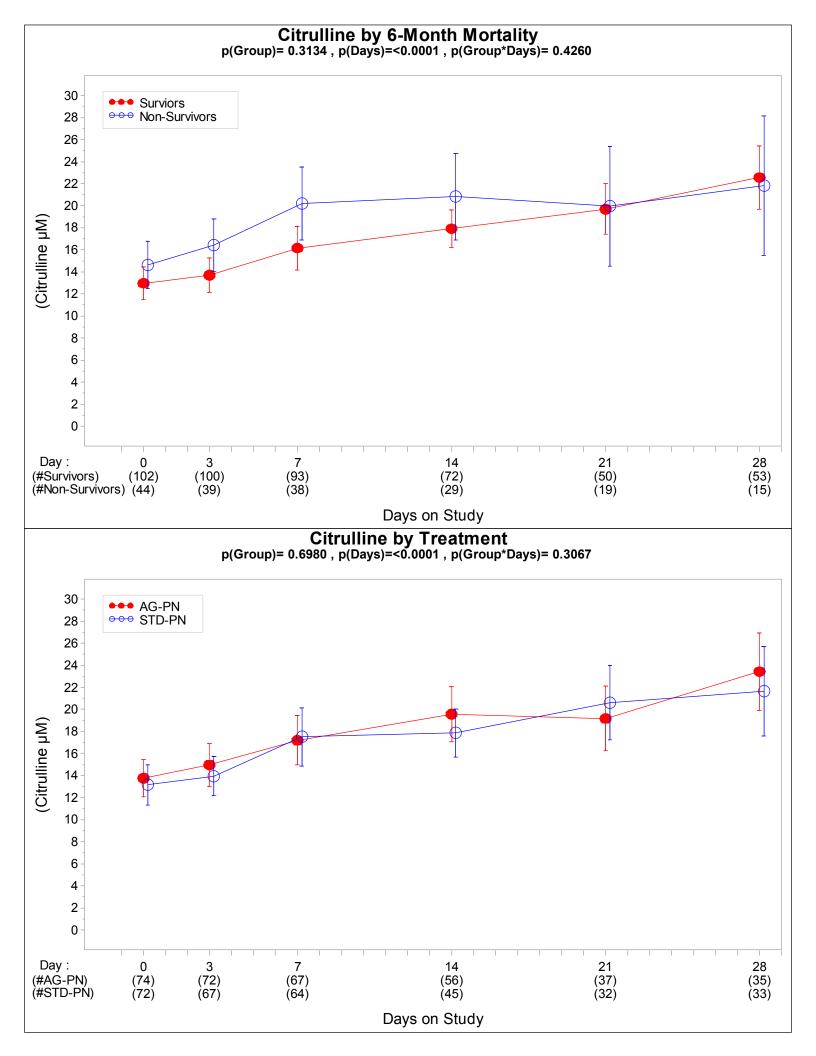
8. Baseline citrulline vs. Incidence of Any Infection

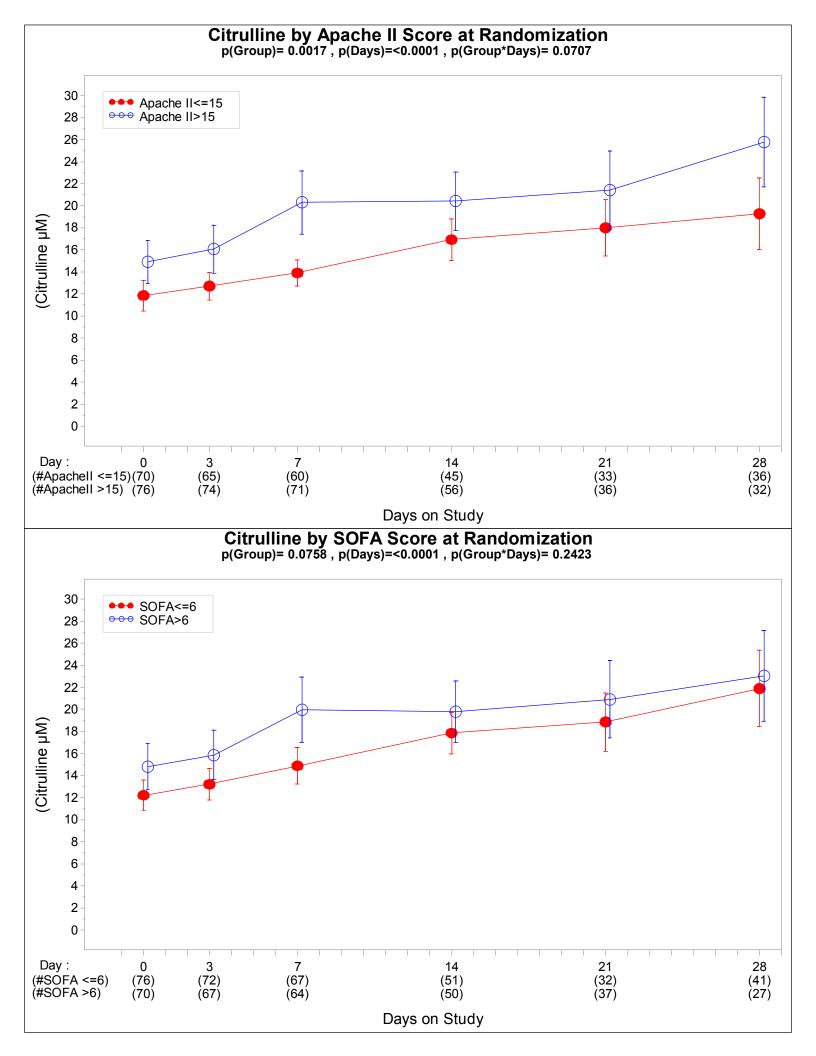
Baseline Citrulline Leve	Odds Ratio	Trend Test p-value	
Citrulline< 8µm	17/90(19.9%) 14/56(25.0%)	1.78[0.67-4.77]	0.28
Citrulline= 8~ 12μm	22/90(24.4%) 14/56(25.0%)	1.38[0.53-3.59]	
Citrulline= 12∼ 17µm	25/90(27.8%) 16/56(28.6%)	1.39[0.55-3.51]	
Citrulline>= 17μm	26/90(28.9%) 12/56(21.4%)	1.00	

9. Citrulline by Surgery Type: p=0.24(Kruskal-Wallis Test)

Analysis Variable : Citrulline (µmol/L)						
Index Surgery N Mean Std Dev Medi						
CABG	5	22.0	11.6	16.0		
Cardiac valve	5	13.2	5.3	12.0		
Intestinal resection	102	13.0	7.9	11.5		
Peritonitis	2	13.0	5.7	13.0		
Upper GI resection	5	14.6	4.0	15.0		
Vascular	31	12.7	6.2	12.0		

By GI or not: p=0.31





Solution for Fixed Effects						
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$						
Intercept	8.6857	1.0390	147	8.36	<.0001	
glutamine	0.01635	0.002179	142	7.50	<.0001	

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations				
citrulline glutamine				
citrulline Citrulline (µmol/L)	1.00000	0.25915 <.0001		
glutamine Glutamine (µM)	0.25915 <.0001	1.00000		

