

## PAIRED T-TEST ANALYSIS FOR MODEL VALIDATION

### Comparative analysis of number of patients in different categories at TMU

Measures	Observed	Simulated	Half width
Number of Yellows at TMU A	3	2.80	0.09
Number of Greens at TMU A	7	6.69	0.09
Number of Reds at TMU B	3	3.23	0.11
Number of Yellows at TMU B	4	4.29	0.13
Number of Greens at TMU B	29	27.95	0.15
P-value ( $\alpha = 0.05$ )	0.42		

### Comparative analysis of resource allocation

Measures	Observed	Simulated	Half width
Number of doctors allocated to TMU A	5	5.00	0.00
Number of nurses allocated to TMU A	15	15.00	0.00
Number of first responders allocated to TMU A	12	12.00	0.00
Number of basic ambulances allocated to TMU A	6	6.00	0.00
Number of advanced ambulances allocated to TMU A	3	3.00	0.00
Number of doctors allocated to TMU B	5	5.61	0.03
Number of nurses allocated to TMU B	15	16.82	0.09
Number of first responders allocated to TMU B	12	12.00	0.00
Number of basic ambulances allocated to TMU B	6	6.00	0.00
Number of advanced ambulances allocated to TMU B	3	3.00	0.00
P-value ( $\alpha = 0.05$ )	0.22		

### Comparative analysis of patient allocation

Measures	Observed	Simulated	Half width
Number of Reds transported to EMS 2	0	0.01	0.00
Number of Yellows transported to H 2	3	2.29	0.09
Number of Greens transported to H 2	3	2.64	0.19
Number of Yellows transported to H 3	2	2.29	0.09
Number of Greens transported to H 3	3	2.59	0.19
Number of Reds transported to H 6	3	3.23	0.11
Number of Yellows transported to H 6	2	2.34	0.09
Number of Greens transported to H6	8	5.58	0.20
Number of Reds re-transported to EMS	0	0.01	0.00
P-value ( $\alpha = 0.05$ )	0.27		

### Comparative analysis of average waiting time at HPs

Measures	Observed	Simulated	Half width
Average waiting time of Reds (hours)	0.53	0.54	0.03
Average waiting time of Yellows (hours)	0.35	0.37	0.02
Average waiting time of Greens (hours)	0.90	0.83	0.03
P-value ( $\alpha = 0.05$ )	0.74		