

## Case Study – Trauma Bay Lean Redesign

### Before:

Community hospital ED Trauma Bay was used as a catch-all for extra stock and specialty equipment. With patient acuity steadily rising, there was mounting pressure on the ED to be better prepared. A catalyst event brought home the need for improvement.

### Solution:

Lean orientation, direct observations, define core purpose (Resuscitation, Trauma and Deteriorating patient), TNCC A thru I mnemonic used for standard work requirements, care provider choreography defined the layout, 5S, “dry-land” testing of layout and equipment, established an “Intubation Cart” for the RTs.

### After:

Significant decrease in types and quantities equipment, supplies and medications stocked; decrease in overall space required; simple visual sweep for re-stocking in minutes; changes embraced with enthusiasm (communication was key) and sustained 15 months later, with on-going improvements reported (e.g. small refrigerator for medications)

### Time to implement:

Approx. 8 weeks elapsed time

### Costs:

External facilitator (\$8,000) + carts and renovations (\$1,000) = \$9,000

### Benefits:

Staff “owned” the changes, reduced supplies, increased staff satisfaction, improved re-stocking time and reliability, more efficient and safer delivery of patient care

*This case study was presented at the 3rd Annual Lean Healthcare Conference in Denver, CO, in April 2008, and during a site tour for the Institute of Industrial Engineers Annual Conference in Vancouver, BC, in May 2008.*

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