

## Research Proposal

We propose to analyze adult trauma code 3 returns from three large EMS providers to SAC, Littleton Adventist, and Penrose Hospitals from July 2010 through July 2011. We estimate this will involve about 300-500 Code 3 transports. During this same time, we estimate that there will have been about 4,000 Code 2 trauma transports to these 3 facilities.

We will analyze all Code 3 trauma transports during this period to see if they received a Time Critical Hospital Intervention (TCHI) within 60 minutes of hospital arrival. Examples of a TCHI include trauma surgical procedure in an OR, neurosurgical procedure in the ED or OR, orthopedic surgical procedure in the ER, intubation, central line or arterial line insertion, etc. This is not the complete list of TCHI, but gives you an example.

Our preliminary analyses suggest that only 16-20% of these trauma code 3 returns result in a TCHI within 60 minutes of arrival.

We will analyze all of the Code 3 trauma transport EMS PCR's to look for associations that might have led to a Code 3 return despite the absence of a TCHI.

If our results of the full study bear the preliminary analysis findings out, it would suggest that there may be ways to safely reduce the number of Code 3 trauma patient transports to these facilities.

Let me know if you need more info.  
DR