





## Control limits

- Derived from the average of the baseline data
- Typically set at  $\pm 3$  standard deviations
- Data point outside of this is highly unlikely to be result of random variation
  - There should be an assignable cause



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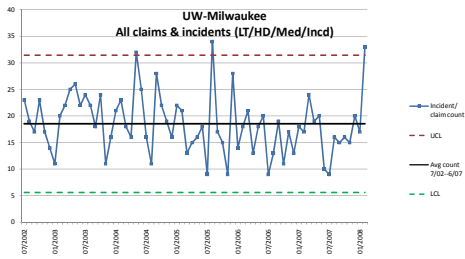
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## Creating the control chart

Add the average and  $\pm 3$  standard deviation



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## Out of control data

- Data outside of control limits
- Other out of control trends
- Effect on setting the baseline



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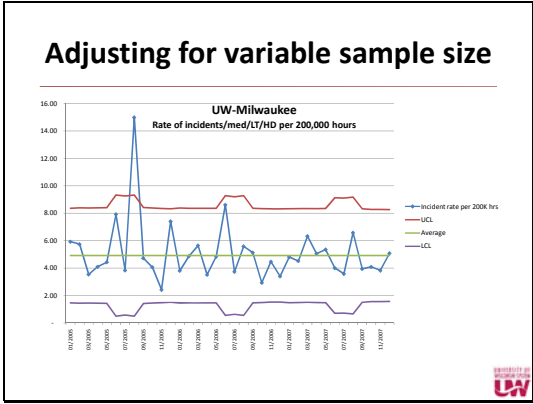
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**Plan for OSLP action, FY09  
Injury/Illness Analysis**

**Your Ideas**

- Listen to your ideas for what we should look at
  - At your campus
  - Across UW System campuses
  - Comparison to others
- Prioritize
  - Long-term, on-going metric
  - Short-term, hot topics
- Each month, develop one new data aspect
  - Finalize STARS report format to update system-wide C-chart on quarterly basis.
  - Look at age vs. incident rate.
  - Look at causes for summer vs. academic year.
- Report to campuses every 4 months on findings
  - For up to one year
  - Revisit usefulness May '09

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# Resources

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- <http://www.uwsa.edu/oslp/safety/uwsres/presentations.htm>
- <http://www.hanford.gov/safety/vpp/vppage.htm>
- *Safety Metrics: Tools and Techniques for Measuring Safety Performance*, Christopher Janicak, 2003, Government Institutes
- *Accident Prevention Manual for Business and Industry: Administration and Programs*, Krieger and Montgomery, 1997, National Safety Council
- *Quality Control and Industrial Statistics, 4<sup>th</sup> Ed.*, Acheson Duncan, 1974, Richard D. Irwin, Inc.

