

How an Electronic Data Validation System Increases IRR and Education in your Trauma Registry

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Purpose: Utilizing an electronic Data Validation system has allowed for a deeper understanding of Educational needs of the Trauma Registrar. The ability to see IRR per data point streamlined the focus on education and in a short amount of time IRR was up exponentially. This streamlined approach assisted in pin pointing educational needs, strengthened internal and NTDB data dictionary and raised overall data confidence.

Resources: Internal Data Validation Software.

Description: We tracked over 12 months specific areas for data validation, focusing on Probability of Survival elements, Benchmarking and PI initiatives. We maintained a 5% threshold for each employee. In our tracking we returned IRR for each data point we reviewed during this process. This allowed us to pin point specific areas of educational need for the Trauma Registrar.

Effectiveness: We tracked overall IRR monthly based on chart closure date. This gave us the ability to see if the focused education was progressing the reliability in the data. Over the 12 months with focused education the Trauma Registrar went from an IRR of 90.54% and peaked at 98.12%, with an average of 97.40% over the last 6 months. Taking 4 Trauma Registrars and using this approach IRR was up on average 3.88% at the end of the year. Newest employee having the largest deviation of the group, but all levels of experience seeing an IRR increase of minimal 2%.

Lessons Learned:

Pros:

Increased confidence in Benchmarking data

Educational Budget better utilized

Trauma Registrar increased confidence in performance and data dictionary understanding

Incremental increase in IRR

Cons:

Differing levels of Trauma Registrar experience

Conclusions:

- Focused data point IRR leads to focused education, increased retention and thoughtful Educational budget utilization.
- Marketable increase in overall IRR in a short period of time from enacting this process.
- Increased confidence on TQIP Benchmarking data points and reports.