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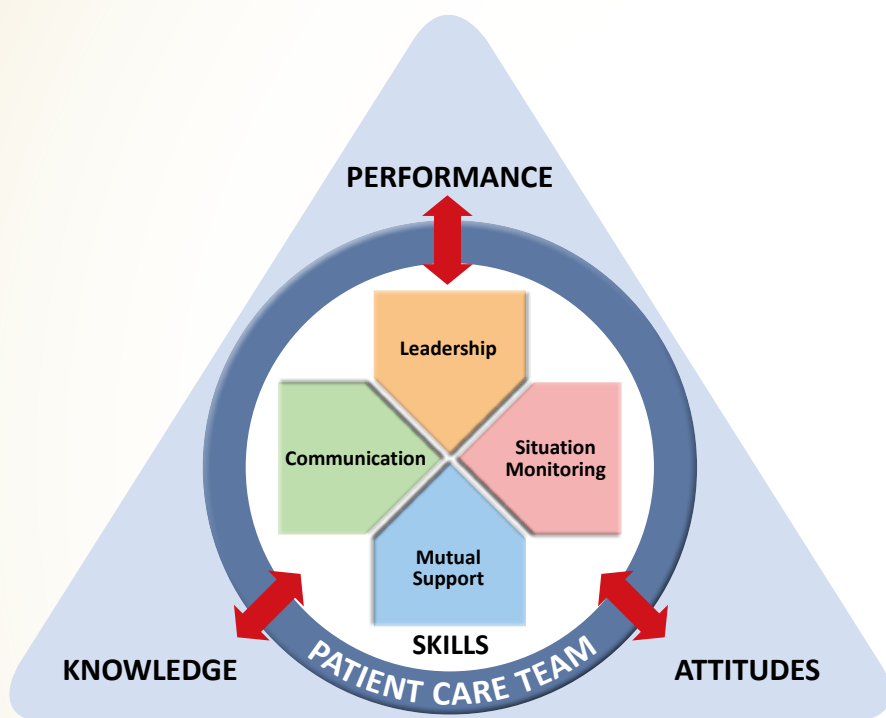
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Background

Healthcare Quality Improvement Campaign -Simulation Campaign (HQIC- SC) of the Joint Commission of Taiwan since 2013. And developed the Team Resource Management (TRM) assessment dimension in 2014, including leadership, situation monitoring, mutual support, and communication.



Measurement of improvement

We used the 4 dimension of TRM—“leadership, situation monitoring, mutual support, and communication”—to measure the teamwork of each team.

The data were collected 27 hospitals who participating in HQIC- SC between 2014 to 2018(joined more than twice), and we calculate hospitals’ scores rate (team score /dimension score). Analysis of experience and results.

Summary of results

We chose the “Paired t-test” to compare the medical team’s scores rate of the latest and the first competitions of these hospitals, and found the score rate of the latest competition showed better than the first competition($P<0.05$).

We chose “Correlation Analysis” and “Pearson Correlation” to check the correlation, and found that:

- “The number of participation” and “be continuous participation” in the hospital affected the growth of “leadership, mutual support, communication, and overall scores “of the TRM dimension, the results showed a positive correlation and significant difference ($P<0.05$).
- The total number of teams participating in the competition in the hospital affected the growth of the “TRM-mutual support” which showed a positive correlation and significant difference ($P<0.05$).

Conclusion

The participation in the “continuity and frequency” of HQIC- SC was deemed whether the hospital put emphasis on simulation training. The total number of teams was deemed coverage of HQIC- SC and training. If the hospital put great emphasis on simulation training, the results showed a positive correlation with “Leadership, mutual support and communication”. And the simulation training coverage of hospital showed positive correlation with “mutual support”.

Through the simulation training, the TRM ability of the medical team can be improved, so it can be used as a reference for clinical teaching activities.

