Improving emergency response during critical situation by Simulation Workshops

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Emergency
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Introduction
Doctors and Nurses usually had experience on tackling critical surgical situation (Massive Gastrointestinal Bleeding, Severe Biliary Sepsis or Dissecting Aortic Aneurysm etc.) in ward. However, only a very small proportion of staff is experience to it. In the old days, training is only depends on blackboard teaching or clinical protocols, experience can only be accumulate by real cases.

Objectives
With the improvement in technology, case simulation was done to assist the training on those critical situations, with the assistance of an ACLS Manikin, ordinary office computer programmes, props and actors, doctors and nurses need to response in different critical surgical situation during the training. The “patient’s” physical condition will vary in response to the treatment and action of the doctors and nurses. After the meeting, a debriefing session will be organized by the experienced staff to comment and provide feedback to the participants.

Methodology
Through the simulation workshop, training no longer restricted to blackboard teaching, a more interactive, humanity and crossing discipline approach of training was established, which is never happen in the department. With the application of the concepts “Human Factors Skills” on Crew Resources Management, the idea of Communication and Teamwork, Assertion, Team Briefing and Debriefing, Situational Awareness and decision making were grossly infiltrated into the workshop. Moreover we are one of the departments who performed the CPR Audit with a scenario based
situations.

**Result**
Over 90% of the participants expressed the workshop is able to assist them to enhance their skills on tackling the critical surgical situation. Most of them expressed the workshop enhanced their confidence and competency on handling the critical surgical situation in order to avoid them to further deteriorate and need CPR at last. It also built up a cultural change on developing a system of cross discipline training in emergencies.