

## **ABSTRACT**

*Blood supply chain manages the flow of blood product from donors to patients. One of the service provider is PMI. UDD PMI contributes 92% of blood national donation. Demands and supplies of blood supply chain are uncontrollable. They contribute to the occurrence of risks which have direct impacts on people's live. The potential risks could affect the overall performance in the healthcare network. Thus, need a risk management to get the risk mitigation. The research is using Supply Chain Operational Research (SCOR) model for mapping the activities of blood chain. Thus, it can facilitate the identification of risk events and risk agents. Further risk events and risk agents are processed using House of Risk (HOR). The aim of HOR1 is priority the risk events. While the aim of HOR2 is arrange the mitigation strategy. There are 9 risk agents are chosen from HOR1 and 8 preventive actions for the mitigation. Another result for this research is monitoring system.*

***Keywords: Risk, SCOR, HOR, Mitigation, Monitoring System***