ABSTRACT

According to the Ministry of Health, after the COVID-19 situation there still challenges in the health sector, it's the Triple Burden of Diases, so it is necessary to support the availability of quality medical devices to prevent these challenges from occurring. One of the companies that produce medical devices is PT. Gerlink which produces dental aerosol as one of its products. Dental aerosols can play a role in addressing the triple disease burden in preventing infectious diseases and preventing the emergence of new diseases, So that in the production process it is necessary to make efforts to prevent *waste. Based on VSM, it was found that the lead time for producing dental aerosol was 38,557 seconds with a production process time of 23,259 and based on PAM data, the largest proportion belonged to NVA activities or non-value added activities (64%). So it is necessary to make efforts to reduce wasted waiting in the dental aerosol production process using the just in time approach. Based on fishbone, the root cause of waste waiting occurs in environment, method, and man factors. In this Final Project the focus of reducing waste waiting is on environmental factors and methods. The results of this final project can fulfill the goal of minimizing waste waiting in the dental aerosol production process at PT Gerlink by proposing 3 designs, there are infrared dryers, a square cutting tool, and a circular cutting tool. The method used is concept selection for designing infrared dryers and using the poka-yoke approach for cutting tools. Based on the proposed design, there is a reduction in waiting time in the dental aerosol production process by 85%.*

Keywords — [***Just in Time, waste, PAM, VSM, Product Development, Poka-Yoke***]