**QLL** 

# FROM CRISIS TO CONFIDENCE: TRANSFORMING MATERNAL CARE WITH POSTPARTUM **HAEMORRHAGE (PPH) KITS**



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#### INTRODUCTION

Postpartum haemorrhage (PPH) is a leading cause of maternal mortality, accounting for approximately 20% of maternal deaths in Malaysia. To address this issue, our project aimed to develop a comprehensive and user-friendly PPH kit to ensure that primary care clinics, especially in rural areas such as Felda Bersia, are well-equipped for PPH emergencies.

### **METHODOLOGY**

A thorough needs assessment was conducted, gathering input from 3 family medicine specialists, 2 medical officers and 9 nurses from health clinics in Hulu Perak. Focus groups and surveys provided detailed feedback on the essential components and practical usability of the PPH kit. Based on this input, the kit was designed with critical supplies and medications. Additionally, a step-by-step guide for managing PPH was created. Training sessions ensured all healthcare providers were proficient with the kit.

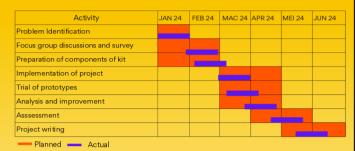


Fig. 1: Gantt Chart of Project

## **RESULTS**



Fig 2: Prototype 1

100 mg

Fig 4.1: Prototype 3 final PPH kit



Fig 3: Prototype 2







Fig 4.2: Contents of PPH Kit

Direct testing of the kit on actual cases was not feasible due to absence of cases. Instead, it was tested through case simulations.

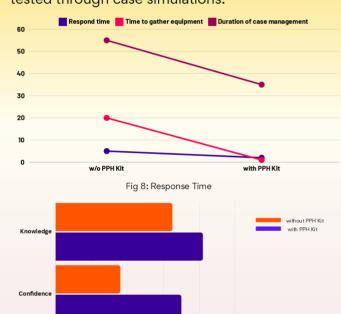


Fig 8: HCWs PPH management knowledge & confidence



Fig 5: QR code & references



The introduction of the kit reduced response times for managing PPH. Before its implementation, delays were common due to the time required to gather necessary equipment. The kit enables immediate access to all essential tools and medications, improving both response efficiency and maternal safety. Healthcare staff felt more confident and equipped to handle emergencies swiftly, enhancing their job satisfaction. The kit's design also simplifies maintenance and Fig 7: Side & back view on motorbike ensures readiness for future use.

## **DISCUSSION & CONCLUSION**



The PPH kit showcases the success of co-production in effectively addressing emergencies and improving maternal care in Felda Bersia. This collaborative approach has proven both practical and impactful. Moving forward, efforts will focus on continuous refinement of the kit based on user feedback and expanding its distribution to other rural areas. By engaging more communities and enhancing the kit, we aim to create a sustainable model that can improve maternal health outcomes in resource-limited settings.



nces: 1. Handbook of Obstetrics Guideline, Ministry of Health Malaysia, Medical Development Division, 2024 2. Training Manual on Management of Post Partum Hemorrhage, Ministry of Health Malaysia, Family Health Div

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