

105 學年度大四工工專題摘要

第 18 組	智慧型醫令系統之建立與實證	
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摘 要		
隨著資訊科技的進步，電腦化醫令系統已經廣泛地在各級醫院使用。根據國外文獻指出，電腦化醫令系統可以有效的預防處方失誤，確保病患的安全。然而，此種電腦化作業方式還是有可能因不佳的使用者介面設計而造成處方的失誤。因此，如何預防此種類型的處方失誤是本計劃的主要目標。 本計劃目的是要建立一套智慧型醫令系統，並以一般常見病症的處方特徵為例，透過專家系統的協助來預防即將發生的處方失誤，提升病患醫療品質。本計劃的預期成果不僅能夠降低處方失誤，更能減輕醫護人員的工作負荷，使醫護人員更心有餘的處理接下來的醫療狀況。未來也期望此智慧型醫令系統的資料庫能涵蓋更多的特殊或重大病症的處方特徵，更全面的預防處方失誤的狀況發生。 With the advancement of information technology, physician order entry system (POES) has been widely used in hospitals. According to the previous studies, POES can assist the user to reduce and prevent the occurrence of medication error and ensure the patient safety. However, adverse user interface design of POES could also result the medication error. Therefore, how to prevent and reduce the medication error while the user using POES is the main issue in this project. This project aim to integrate and establish a smart POES as the expert system, which could detect the error of the physician order automatically and increase the quality of healthcare. It is expected that the results of this project not only may complete the function of medication error detection in POES, but also increase the patient safety and decrease the workload of the medical staff		