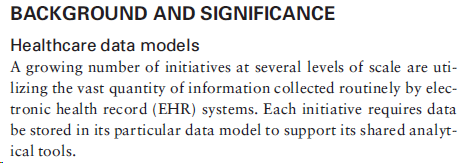
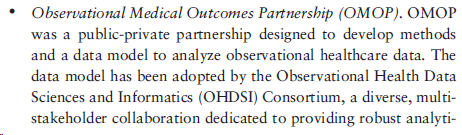
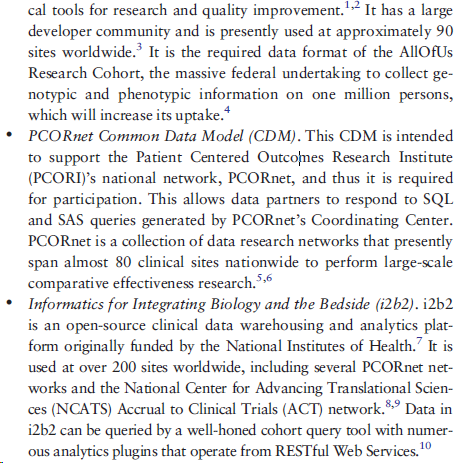
108學年度第1學期資訊管理研究所博士班資格考

科目:高等健康資訊學

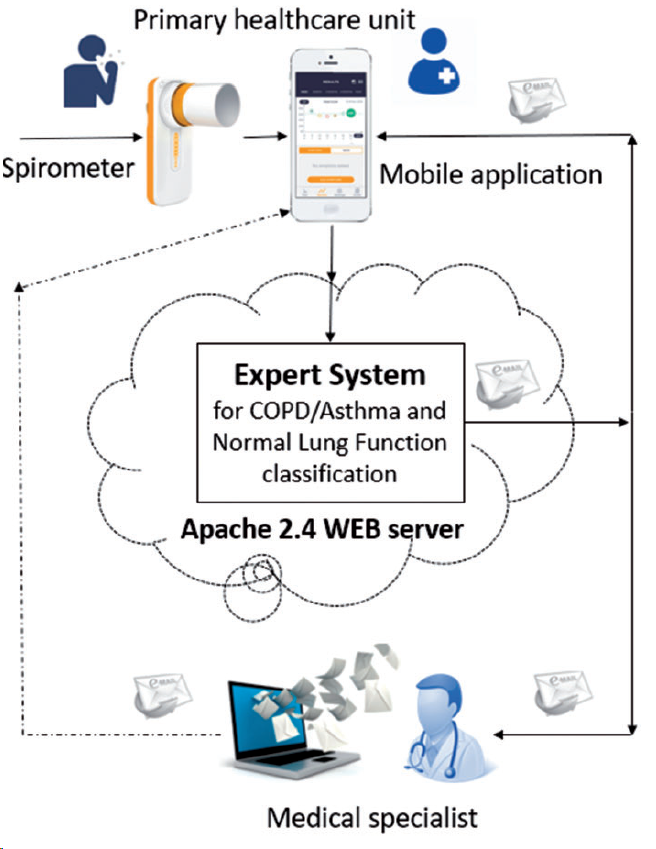
1. What are the similarities and differences between bioinformatics and medical informatics? How can research in the two areas be beneficial to each other? (11%)
2. In the field of medical informatics, what are the advantages of using content analysis over citation analysis for identifying domain subtopics? What are the advantages of using citation analysis over content analysis? (11%)
3. What are the trade-offs that should be considered in developing a risk management plan for a medical data mining project? (11%)
4. 試以近五年國內外醫療資訊相關期刊論文評論，影響民眾對個人資料揭露及使用線上諮詢平台意願的關鍵因素，及這些因素對醫療線上諮詢平台產業的影響(33%)。
5. Here is a paragraph in the background study for EHR’ (electronic Healthcare record) service model shown in the article, entitled ‘Web services for data warehouses: OMOP and PCORnet on i2b2’ in Jamia, 2018. Please read the paragraph shown in the below. For the three popular models, Observational Medical Outcomes Partnership (OMOP)., PCORnet Common Data Model (CDM), and Informatics for Integrating Biology and the Bedside (i2b2), discussed in the paragraph, what are their useage and goal to help the EHR? If you are not familiar with the service model in the paragraph, you can describe what the ideal service model for HER instead.(16%)







1. Here is a discussion in the article, entitled ‘A telehealth system for automated diagnosis of asthma and chronical obstructive pulmonary disease’, in Jamia, 2018. The article designed a mobile app for chronical obstructive pulmonary (COPD)’s monitor and alarming. The following is the scenario for the usage of the apps. (17%)



This paper explained the Expert system for classification of Asthma and COPD with the narrative for the data and technologies used in the expert system. But the paper did not give any diagram or graph to delineate it. Please read the following paragraph and the draw a graph to explain that paragraph as possible. You can use one of the formal system analyical diagram, like flow chart, acitivity diagram, Data flow diagram, sequenc diagram, and so on, to explain the expert system mentioned in the paragraph.

