DATABASE REVIEW

Department of Medicine & Therapeutics
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NHS Trust

CORONARY CARE
AUDIT DATABASE
Contents

Introduction 3

   History 3
   Overview of Database 3

Database Structure 4

Main Table Summary 5

   CCUAUDIT  Coronary Care Unit Audit Data 5

Associated Publications 6
Introduction

History
The Coronary Care Audit database, was created in 2000 on an Access Database and populated with patient care data for admissions to the Coronary Care Unit (CCU), Aberdeen Royal Infirmary. The data is initially recorded on CCU Audit Forms and entered into a single Microsoft Access database table for analysis. This database was designed to meet the audit requirements of the custodian based on audit suggestions from documents produced by the NHS, Department of Health and the Royal College of Physicians. Approximately 238 patients per month are triaged on the CCU and of these approximately 140 are admitted to hospital, for an average duration of a couple of days. About 60% of admissions are male patients.

Overview of Database
The Coronary Care Audit database is held on an Access Relational Database on a Personal Computer (PC), located in the Cardiac Research Room, within Aberdeen Royal Infirmary. The Access database has been developed to allow data input using a form layout and selection buttons to perform simple queries and produce reports. Currently, there are no external links to any other systems and access is for a single user only.

Information on approximately 1,000 patients admitted to CCU is held on the database amounting to approximately 2 Megabytes of storage on one relational database table, which contains the basic data summarised in the Main Table Section. 100% database growth annually is estimated for the next couple of years.

The next development phase plans to implement further system enhancements, including the linkage to other databases within the Trust and across departments.
Database Structure

CORONARY CARE AUDIT DATA
Main Table Summary

CCUAUDIT  Coronary Care Unit Audit Data

- Patient Identification
- Admission Data (Including Admission Diagnosis)
- Thrombolysis Data
- Interventions
- Medications
- Biochemistry Results
- Risk Factors
- Discharge Data (Including Discharge Diagnosis)
- Complications
- Mortality Data
- Study / Trial Enrolment
Associated Publications

Weston J
Coronary Care Audit System Annual Report
Cardiac Research Department, Aberdeen Royal Infirmary 2001