AGENDA ITEM 4.6.2

26 April 2011

BUSINESS INTELLIGENCE SYSTEM

Report of
Director of Innovation and Improvement

Paper prepared by
Information Modernisation and Development Manager

Executive Summary
This report provides the Information Governance Committee with an update of current development projects on the University Health Boards Business Intelligence System and associated Data Warehouse.

Action/Decision required
To note the report

Link to other Board Committee(s) and sub-committees
Project highlight reports are made available to the Information Requirements Group.

Link to Standards for Health Services in Wales
Not applicable

Link to Public Health Agenda
Not applicable

Link to UHB Strategic Direction and Corporate Objectives / Legislative and Regulatory Framework
Forms part of the IM&T work plan in support of the Operational Plan.

Link to relevant evidence base

INTRODUCTION

The Information Governance Committee is asked to receive and note the project updates for Business Intelligence System developments. The report provides a summary for each project showing its purpose and current status.

Project Updates

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ward Team Dashboard</td>
<td>An interactive dashboard providing key information to ward sisters and charge nurses on a self-service basis. Information available includes quality and safety measures e.g. MRSA, falls, medication errors, complaints etc</td>
<td>Training and rollout on UHW and UHL sites.</td>
</tr>
<tr>
<td>Patient Level Costing</td>
<td>The Patient Level Costing (PLC) project aims to allocate actual costs to all UHB patient activity in order to produce a patient bill which includes costs for all services that were provided to the patient i.e. radiology test, theatre sessions etc. Information has been deployed using various BI methodologies e.g. dashboards, reports and cubes.</td>
<td>Phase 1 of the development has been released to key individuals and is being piloted in 3 specialties.</td>
</tr>
<tr>
<td>Divisional Dashboards</td>
<td>Delivery of divisional scorecards via the BI tools to support and compliment the performance monitoring and management agenda. All data currently held within the data warehouse is included and work is commencing to incorporate the additional information such as Datix, HR and finance.</td>
<td>A series of demonstrations are being scheduled for the divisional managers in advance of a rollout plan to be agreed.</td>
</tr>
<tr>
<td>Mental Health and Data</td>
<td>Data from the PARIS system is being integrated into the data warehouse.</td>
<td>The technical development is due for</td>
</tr>
</tbody>
</table>
Community System

This will allow us to deploy the mental health and community reporting requirements through the BI tools and allow users to self serve.

The data will also be used in the PLC project.

BI System upgrade

Upgrade the system to version 10 of IBM Cognos Business Intelligence. New functionality will include interactive off-line reports and SPSS Statistics providing process control, box plots, histograms etc as part of the core BI functionality.

Referrals

Integration of all referrals into the Data Warehouse and reports to be made available via the BI system. Including CAV referrals that are redirected to other provider organisations.

CONCLUSION

Developments currently underway are running to plan.

RECOMMENDATION

The Committee is asked to:

- NOTE the report.

IMPACT ASSESSMENT

Health Improvement

None identified.

Workforce

Requires BI Team and PMS Development resource.

Education and Training

Training provided to users on use of the BI system including new functionality.

Financial

None identified.
### Legal
None identified.

### Equality
None identified.

### Environmental
None identified.

## RISK ASSESSMENT

<table>
<thead>
<tr>
<th>Category</th>
<th>Risk Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical/Service</td>
<td>N/A</td>
</tr>
<tr>
<td>Financial</td>
<td>N/A</td>
</tr>
<tr>
<td>Reputational</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Acronyms and abbreviations
- BI – Business Intelligence
- UHW – University Hospital of Wales
- UHL – University Hospital Llandough
- PLC – Patient Level Costing

## CONSULTATION AND ENGAGEMENT

- Divisional Managers
- Mental Health and Community Project Board
- Innovation and Improvement
- Finance Department
- Assistant Director of Nursing

## SOURCES OF INFORMATION