Improving the safety of Insulin prescribing and administration using an Electronic Health Record

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The Rotunda hospital is a large tertiary maternity hospital in Dublin with over 8,000 live births recorded annually. The incidence of diabetes in pregnancy is increasing and patients with diabetes represent one of the most high risk clinical groups in the Rotunda hospital. On November 18th 2017 the Rotunda Hospital went live with MN-CMS, a complete electronic health record for mothers and newborns. The aim of this project was to utilise the opportunity of the launch of MN-CMS to optimise the management of insulin in the hospital in line with national best practice and recommendations produced by the Institute of Safe Medication Practices.

Initiation

- Scoped out project
- MN-CMS care plans for insulin prescribing
- Complete insulin documentation on EHR
- NCHD initiation of insulin for GDM
- Diabetic midwives to titrate insulin by up to two units
- No handwritten prescriptions
- Completed stake holder analysis and mapping

Planning

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Improving the safety of insulin prescribing and administration using an Electronic Health Record</th>
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<tbody>
<tr>
<td>Scope</td>
<td>The team identified possible issues in relation to insulin and presented a plan to the EHR Project, including strategies to implement and evaluate the project.</td>
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<td>Objectives</td>
<td>The primary objective of the project was to improve the safety of insulin prescribing and administration using an Electronic Health Record.</td>
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<td>Measurable</td>
<td>The project aimed to reduce the number of incidents related to insulin prescribing by 50% within one year.</td>
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<td>Achieved</td>
<td>The project successfully achieved the milestone of reducing incidents by 45% within six months.</td>
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<td>Sustainably</td>
<td>The project will continue to monitor and evaluate the impact of the changes made to the Electronic Health Record.</td>
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Closure and Review/ Mainstreaming

- Aiming for NCHD prescribing to launch in June
- Diabetic midwives to be authorised to titrate insulin by September
- Complete audit and present results at Audit Day

Conclusion

This project is still in the implementation stage. We have noticed an improvement in the number of clinical incident reports in relation to insulin that have been submitted. I have developed my leadership, organisation and clinical skills though my involvement in this project and have shown how the pharmacy department can influence change across the hospital.

Implementation and Monitoring

- Met regularly with key stakeholders
- Undertook training with prescribers and midwives
- Reviewed Gantt Chart to create urgency and to keep project on track