Excelicare

CASE STUDY

NATIONAL SEXUAL HEALTH SOLUTION SCOTLAND - HIV MODULE

Setting the benchmark for a comprehensive HIV Electronic Patient Record

OVERVIEW

With its robust National Sexual Health Solution from Excelicare live across Scotland since 2008, teams from NHS Scotland's Health Boards decided in early 2021 to extend the solution to include a comprehensive HIV Electronic Patient Record for HIV patients. Going live in 2022, the Excelicare HIV module has proven to be instrumental in meeting the many complex requirements for the capture, tracking, management, and maintenance of data associated with this important patient cohort.

NEED

A comprehensive, yet easy-to-use and customizable solution that met the complex needs of HIV Services and the patients they serve. The solution had to enable easy viewing of a patient's longitudinal health record including medication and ARV history, and their latest laboratory and assessment results. The system also needed to be a single instance, with the security of patient records paramount, only allowing authorized access to the clinical record of a patient if the patient had attended (or was attending) the user's Health Board. Additionally, any solution had to provide real-time reporting and address the complex, manual, and time-consuming process for generating National Reports.

SOLUTION

In close collaboration with project leads Dr Kirsty Abu-Rajab (Consultant in HIV and Genito-urinary Medicine, Lead Clinician Sexual Health and HIV, NHS Forth Valley) and Dr Sally Wielding (Consultant Genito-urinary and HIV Medicine, GUM Lead, NHS Lothian and NHS Borders) the Excelicare HIV Module went live in 2022 with rollouts continuing into 2023.

The module captures and maintains a longitudinal HIV Patient Care Record for Scotland, in compliance with the NHS Digital's HARS data set, and provides Health Boards across Scotland with a common secure solution and a consistent data model for HIV, facilitating real-time reporting including at the National level.

Via customized 'dashboards' authorised users can proactively manage the care of their Board's cohort of HIV patients, while confident that patient care is easily tracked. At the patient level, a combination of the HIV Patient Summary and HIV 'pop ups' help users to easily review the care record, including medication and ARV history, and latest laboratory and assessment results. And all of this is accomplished within the same system as the patient's Sexual Health record.

AT A GLANCE

Challenges

- Patient data spread across multiple silos and not easily shared between regions.
- No single HIV data model making National reporting difficult and time consuming.
- Difficult to review a patient's HIV record in combination with their sexual health record.

Benefits

- Single electronic patient record accessible across health boards.
- Consistent data model and reports, including National reporting.
- Health Boards able to easily track and manage HIV patient cohorts

> We've now got a comprehensive HIV Electronic Patient Record for the whole of Scotland! Reviewing a patient's record, tracking and managing the actions for our HIV cohort, transferring a patient to another Health Board, along with National reporting are all much easier now as a result of Excelicare's HIV Solution
>
> Dr. Kirsty Abu-Rajab
>
> Dr. Sally Wielding

SOLUTION ATTRIBUTES

- Patient Registration and Demographic management
- HIV specialty data capture forms:
  - HIV Registration and enrolment to a specific Health Board and HIV cohort.
  - Past Medical History.
  - Document transfer of care between Health Boards or to foreign countries.
  - Capture and management of the HIV review process.
  - Antiretroviral regimens, including prescribing of regimens.
  - Multi-disciplinary team discussion and notes.
  - Automated creation of required actions for patients.
- Summary screens at the patient level:
  - The HIV patient longitudinal record
  - Medications summary: including Medication History, HIV Medications and Sexual Health Medications
  - HIV Test/Assessment Results Summary for quick view of a patient's last Test and Assessment information e.g., latest Viral Load result and Influenza vaccination status.
- HIV Cohort Management Dashboards at the Health Board level:
  - Active HIV Patients
  - Outstanding HIV Patient Actions
  - No HIV Review in 12 mths
  - No ARC prescribed in 9 mths
  - Detectable HIV Viral Lo
  - CD4 <200
- ·Laboratory and Order Comm interfaces.
- Dynamic worklist tool for easy management of patient cohorts.
- Data entered into the HIV module is easily reportable. Each board and ISD have links to the HIV Reporting Database.
- Compliance with NHS Digital's HARS data set and reporting requirements.
- Access control security ensures users can only view records for patients that are attending their Health Board.

TOP BENEFITS REALIZED

- A single pan-Scotland solution and data model for HIV.
- ·Patients' HIV Care Records can be easily and securely shared between Health Boards.
- ·Authorised users can view a patient's HIV Care Record within the same system as the patient's Sexual Health Record.
- ·Improved reporting capabilities and tools allow Public Health Scotland and individual Boards greater flexibility, including National reporting.
- Integration with Order Comm and Lab Results stores across Scotland allow users to place orders for tests and see the labs results for a patient in the same solution, including the latest results, results history, and trends.
- HIV Dashboards make it much easier for Health Board to manage and track the care of their cohort of HIV patients