

Intergene

Streamlining the results workflow

What have we achieved?

We've developed a secure custom workflow management system to integrate data from the Genomics England system with data from the patient's Electronic Health Record, and speed up the delivery of results.

Intergene is regional, allowing different clinical teams to contribute to multidisciplinary team (MDT) documents remotely across a patch covering a population of 3.5 million.

What problem does it solve?

The provided results portal does not support clinician workflow through multidisciplinary teams. With a large number of results returning for patients this can make the results hard to manage.

The current central system provides a web portal with

- no positive patient identification
- no workflow assistance for clinicians.

Intergene's dedicated health informatic team has worked with clinicians to build a solution that addresses informatic and clinical challenges.

Why are we proud of this achievement?

This system is unique. It has been built with clinicians to ensure it is fit for purpose and enables the multidisciplinary interpretation of results into a clinical result for patients.

Results and annotations are received and displayed within a flexible platform on a secure NHS network. The results workflow identifies the participant, enables cases to be worked through at multidisciplinary team review, and provides documents that can be added to the patient's Electronic Health Record.

Intergene also allows all local Trusts to work remotely and interact with the Project data.

Why is Wessex GMC doing so well in this area?

Intergene is the flagship results workflow solution, built in Southampton by dedicated and skilled health informatics experts. It is a digital exemplar of collaboration between teams to enhance the flow of results across systems, enhancing the delivery to the patient.

We continue to innovate. Future developments include scope to handle multiple results, meeting the FHIR healthcare interoperability standard to interface with the Electronic Document Management System (EDMS), and integration with Genomic England's Cancer API.

What impact has this had on patient care?

Intergene has enabled a faster turn around of results as the teams no longer have to query multiple systems. Without it, feeding back this volume of results to our patients from the 100,000 Genomes Project would be very challenging. Patients are now receiving their results in a more streamlined and efficient manner, which has clear benefits for treatment and outcomes.

"Having recruited so many patients to the 100,000 Genomes Project, we have all been worrying about how we will deal with the many hundreds of results that will come back to us as clinicians. With the help of Intergene, we now have a workable and responsive system to help us streamline this workflow within the Wessex GMC. Without Intergene, we simply would not be able to deliver the results (i.e. the real 'business end') of the 100,000 Genomes Project.

I am not aware of any other comparable system to Intergene. We are lucky to have it and are even more lucky and grateful to have our really excellent IT development team, who have shown real innovation in producing Intergene."

Clinician

Custom workflow management system

