Dynamic management of genomic insights: Optimize care as patient phenotypes and science change

These days, with interest in precision medicine skyrocketing, more genetic/genomic tests are being ordered. More results are being reported. More information is being returned to your clinicians.

*Without a doubt, this new paradigm presents real challenges...*

1. How will you assess which patients would benefit from genomic testing – and which tests are most appropriate?
2. How can you ensure test results are made part of the compendium of information that allows you to treat each patient most effectively?
3. How will you manage the influx of voluminous genomic data – and apply insights based on the most up-to-date science (as opposed to limiting use to a single snapshot in time)?
Leveraging the extended value of genomics

Currently, many providers don’t even realize the value genomics can bring to their practice – sometimes failing to recognize cases where they should order genomic tests, but don’t. Even in organizations where genomics has been adopted, one provider orders one panel of tests for one specific condition. The results come back – in isolation, not integrated with clinical data – and is used to inform that single medical decision.

But much more value can be extracted, if the health system leverages a solution like 2bPrecise. We enable clinicians to review genomic information within context of the current patient condition and latest scientific evidence.

Consider this:
Most genomic tests present static results – but both the patient’s phenotype and genomic science are dynamic. An enterprise-spanning, intelligent solution like 2bPrecise empowers providers to identify when these changes represent an opportunity to re-evaluate the therapeutic plan – amplifying the value derived throughout the patient’s healthcare journey.
2bPrecise offers...

- **Clinical integration**
  2bPrecise integrates molecular test results with the patient’s clinical record in the EHR – so providers have a personalized picture of how genomics could impact real-time decisions about the individual’s care.

- **Curated knowledge bases**
  The 2bPrecise solution brings up-to-date knowledge bases to the provider’s fingertips. Clinicians can re-interrogate genomic results against multiple knowledge bases – and apply the latest insights over time as the patient’s phenotype changes, new scientific discoveries are made and new therapies become available.

- **Value across the organization**
  2bPrecise serves as an informatics layer for genomics across the health enterprise so care teams from any specialty or department can factor existing genomic insights into all relevant clinical decisions. Plus, the health system can mine its own data for better population management and genomic decision making.

**2bPrecise: Zero clicks to value**

Architected for the cloud, the 2bPrecise platform consumes genomic data from molecular labs and clinical information from the user’s preferred EHR, combining them into a comprehensive patient record. 2bPrecise synthesizes the information into a clinical-genomic ontology and provides insights from multiple curated, evidence-based knowledgebases. Our 2bPrecise Genomic EHR Mentor (GEM™) brings the resulting precision medicine insights into a physician’s EHR workflow for immediate and timely use.

Because 2bPrecise renders genomic insights easy to view, understand and act upon, providers can arrive at accurate diagnoses sooner and deliver better outcomes faster.
Functionality to drive genomic strategies

**In-workflow genetic/genomic results**
Fingertip visualization of germline and somatic results helps providers quickly identify when important genetic/genomic information exists and evaluate resulting recommendations. They are then able to drill down into additional details and review the evidence for optimal and informed decisions.

**Pharmacogenomics (PGx)**
Access to PGx information about drug-gene and drug-drug-gene characteristics in real time, as the provider makes prescribing decisions, lessens the burden on pharmacists and helps patients get the safest, most effective therapy sooner. Because 2bPrecise incorporates a curated PGx knowledge source, results can be re-interrogated to inform future prescribing decisions based on the latest actionable guidelines.

**Precision oncology enablement**
2bPrecise empowers oncologists to begin matching patients with clinical trials by interrogating molecular inclusion and exclusion criteria ingested from a Clinical Trials Management System or other clinical trial databases. Because data is presented within the patient context, providers can also assemble relevant molecular information to facilitate more productive tumor board discussions and identify patients with similar genotypes/phenotypes to understand how they were treated (and to what effect) to inform current patient decisions.

**Candidate identification/population stratification**
Algorithms can be applied within 2bPrecise to identify candidates or cohorts that might be at increased disease risk or who may benefit from genetic/genomic testing.
Pedigree charting
A patient’s disease heritability risk is the first line of any precision medicine program. The ability to analyze inheritance patterns may enable prevention and earlier intervention – and allows patients to alert family members about their risks as well. 2bPrecise Pedigree not only facilitates appropriate genetic counseling but, because family history is incorporated as discrete data within a larger precision medicine solution, it can also be used with genotype/phenotype information to power the underlying analytics engine for calculating risk.

Research-ready
The correlation of phenotype and genotype as known and available today, combined with the clinical-genomic data model, provides the framework for closed-loop research-to-care translations and establishes the foundation for future scientific discovery.

To learn more about how 2bPrecise can help drive and future-proof your precision medicine strategy, visit www.2bPreciseHealth.com or call 412-802-2211.