

Population-based Practice

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Medication Therapy Management Solutions

- **Services**
 - Full service programs accredited by the Center for Pharmacy Practice Accreditation (CPPA)
 - Telehealth and clinic-based medication and chronic disease management
- **Client Partners**
 - PBMs, health plans, healthy systems, employers, providers
 - Over 350+ MTM programs and community pharmacy patients
- **Clinical Call Centers**
 - Arizona (2), Ohio, Florida, Texas



Our Process



Movement into Pharmacogenomics (PGx)

- Integrated Behavioral Health site
- Research
 - Implementation
 - Focus groups with providers/patients
 - Result trends, outcomes
 - Reimbursement
- Scale



Things to Consider

- Vendors (PGx, lab, dashboards)
- Who houses the data
- Coverage
- All or some
- Future insurability
- Interoperability



Electronic Health Record Needs

- Storing genetic information as structured data
- The structured data must be standards-based to allow the information to move between different EHR systems
- The data must be available for use by rules-based decision support engines
- The EHR must be able to obtain and display information needed by the clinician to interpret data



Source: Integration of Genomics into the Electronic Health Record: Mapping Terra Incognita
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4157459/>

safety-code
 The Medication Safety Code Reader

What is it?
 The Medication Safety Code on the left represents a patient-specific genetic profile regarding important pharmacogenes.

How does it work?
 After scanning the QR code (e.g. with a smartphone), you are led to a website that displays patient-specific drug dosing recommendations.

Laboratory contact
 +0123456789
 Some lab name
 Some Street name 123/45
 1234 Some city name

GENETIC INFORMATION

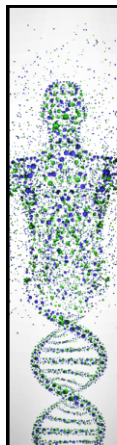
safety-code
 The Medication Safety Code Reader

Name: Jane Doe
 Date of birth: 01.02.1934

Gene status Critical drug substances (modification recommended!)

CYP2C19	Poor metabolizer	Clopidogrel, Sertraline
CYP2D6	Ultrarapid metabolizer	Amiripityline, Aripiprasole, Clomipramine, Codeine, Donepezin, Haloperidol, Imipramine, Mianserinol, Nortriptyline, Paroxetine, Propafenone, Risperidone, Tamoxifen, Tramadol, Venlafaxine
TPMT	Poor metabolizer	Azathioprine, Mercaptopurine, Thioguanine
Other genes	Not actionable	ABCB1, ADRB1, BRCA1, COMT, CYP1A2, CYP2A6, CYP3A4, CYP3A5, CYP3A6, CYP3A7, CYP3A8, CYP3A9, CYP3A10, CYP3A11, CYP3A12, CYP3A13, CYP3A14, CYP3A15, CYP3A16, CYP3A17, CYP3A18, CYP3A19, CYP3A20, CYP3A21, CYP3A22, CYP3A23, CYP3A24, CYP3A25, CYP3A26, CYP3A27, CYP3A28, CYP3A29, CYP3A30, CYP3A31, CYP3A32, CYP3A33, CYP3A34, CYP3A35, CYP3A36, CYP3A37, CYP3A38, CYP3A39, CYP3A40, CYP3A41, CYP3A42, CYP3A43, CYP3A44, CYP3A45, CYP3A46, CYP3A47, CYP3A48, CYP3A49, CYP3A50, CYP3A51, CYP3A52, CYP3A53, CYP3A54, CYP3A55, CYP3A56, CYP3A57, CYP3A58, CYP3A59, CYP3A60, CYP3A61, CYP3A62, CYP3A63, CYP3A64, CYP3A65, CYP3A66, CYP3A67, CYP3A68, CYP3A69, CYP3A70, CYP3A71, CYP3A72, CYP3A73, CYP3A74, CYP3A75, CYP3A76, CYP3A77, CYP3A78, CYP3A79, CYP3A80, CYP3A81, CYP3A82, CYP3A83, CYP3A84, CYP3A85, CYP3A86, CYP3A87, CYP3A88, CYP3A89, CYP3A90, CYP3A91, CYP3A92, CYP3A93, CYP3A94, CYP3A95, CYP3A96, CYP3A97, CYP3A98, CYP3A99, CYP3A100

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