



Population Health Services

WS Lab UM Committee Recommendation for Pharmacogenomic Testing

S: Request from WS PCP to review pharmacogenomics testing for patients taking pain management medications.

B: Vendors such as Assure Rx provides pharmacogenomics testing and guidance through reports to the most effective analgesic medications based on 6 pharmacokinetic genes from the CYP P450 family and pharmacodynamic gene related to the mu opioid receptor.

A: Hayes Technology review gives the service a D2 evidence rating. The testing costs \$3800. The company claims it is covered by Medicare and Medicaid, however that is only true for an LCD in the Midwest, with only limited coverage. More metabolic enzyme variants are tested for than CPIC evidence dictates. The testing does not take into account variation in ethnic population and does not account for drug-drug interactions. Aetna, United Healthcare, the Blues, Anthem all consider investigational and not medically necessary.

R: Pharmacogenomic testing evidence-based literature should be reviewed yearly to determine if clinical and reimbursement updates are favorable. Based on evidence, current panel testing format and cost, the testing is ***not recommended*** at this time.