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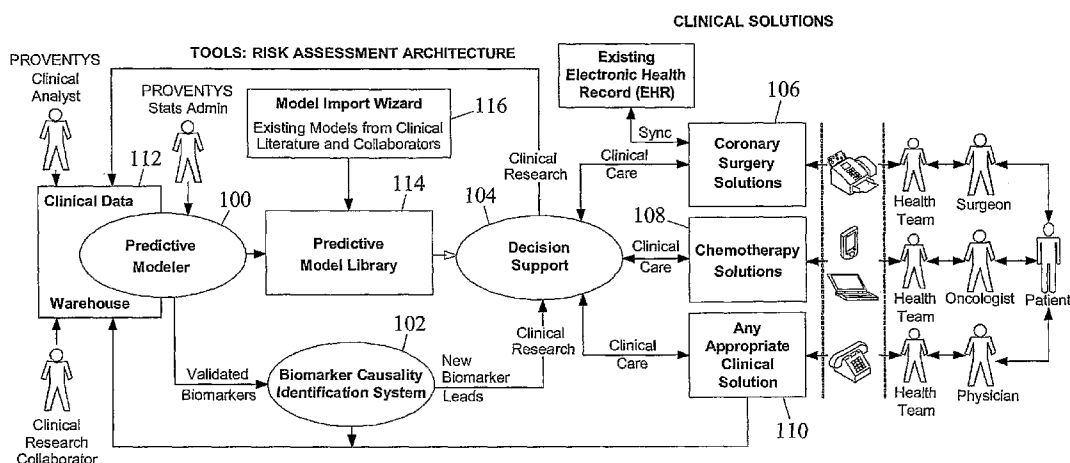
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(54) Title: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR DEVELOPING AND USING PREDICTIVE MODELS FOR PREDICTING A PLURALITY OF MEDICAL OUTCOMES, FOR EVALUATING INTERVENTION STRATEGIES, AND FOR SIMULTANEOUSLY VALIDATING BIOMARKER CAUSALITY



(57) Abstract: Methods, systems, and computer program products for developing and using predictive models for predicting medical outcomes and for evaluating intervention strategies, and for simultaneously validating biomarker causality are disclosed. According to one method, clinical data from different sources for a population of individuals is obtained. The clinical data may include different physical and demographic factors regarding the individuals and a plurality of different outcomes for the individuals. Input regarding a search space including models linking different combinations of the factors and at least one of the outcomes is received. In response to receiving the input, a search for models in the search space based on predictive value of the models with regard to the outcome is performed. The identified models are processed to produce a final model linking one of the combinations of factors to the outcome. The final model indicates a likelihood that an individual having the factors in the final model will have the outcome.



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