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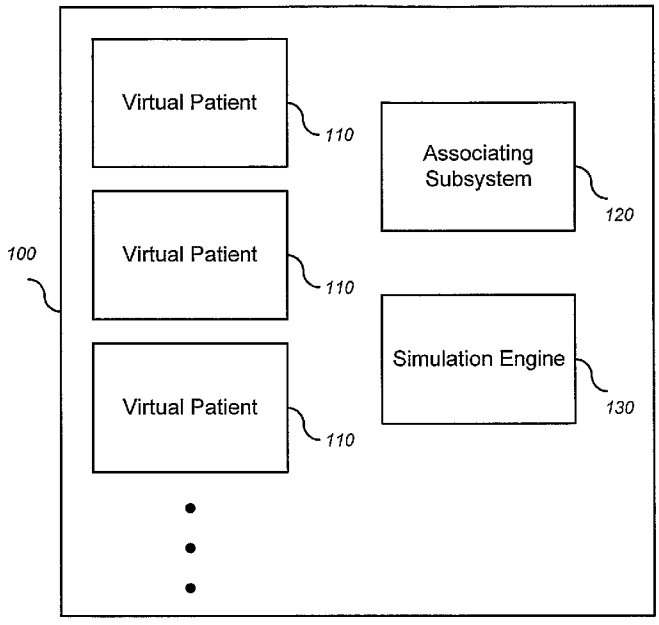
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(54) Title: SIMULATING PATIENT-SPECIFIC OUTCOMES



(57) Abstract: The invention encompasses systems, methods, and apparatus for predicting and monitoring an individual's response to a therapeutic regimen. The invention includes multiple virtual patients, an associating subsystem operable to associate the subject with one or more of the virtual patients, and a simulation engine operable to apply one or more experimental protocols to the one or more virtual patients identified with the subject to generate a set of outputs. The set of outputs can represent therapeutic efficacy, identify biomarkers for monitoring therapeutic efficacy, or merely report the status of the biological system as it represents a particular individual.

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