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(54) Title: AI MODELS, SYSTEMS, AND METHODS FOR MANUFACTURING CAR T DRUG PRODUCTS WITH IMPROVED VIABILITY

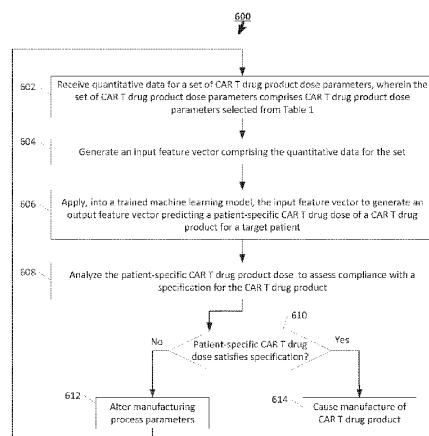


FIG. 6A

(57) Abstract: Systems and methods are disclosed for predicting patient-specific CAR T drug product viability and optimizing CAR T drug manufacturing. An example method includes: receiving quantitative data for a set of viability parameters; generating an input feature vector comprising the quantitative data for the set of CAR-T drug viability parameters; and applying, into a trained machine learning model, the input feature vector to generate an output feature vector predicting a patient-specific CAR T drug product viability of a CAR T drug product for a target patient.

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