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(71) Applicant: **WISTA LABORATORIES LTD.** [SG/SG];
25 Bukit Batok Crescent, The Elitist #6-13, Singapore
658066 (SG).

(72) Inventors: **AGARWAL, Anish**; 48 Clifton Road, Newton,
Massachusetts 02459 (US). **MISRA, Vishal**; 107 W 89th
St., Apt GA, New York, New York 10024 (US). **SCHEL-
TER, Bjoern**; TauRx Therapeutics Ltd, 395 King Street,
Aberdeen Aberdeenshire AB24 5RP (GB). **SHAH, De-
vavrat**; 703 Chestnut Street, Waban, Massachusetts 02468
(US). **SHEN, Dennis**; 3695 Provincetown Av, Irvine, Cal-

ifornia 92606 (US). **SHIELLS, Helen**; TauRx Therapeu-
tics Ltd, 395 King Street, Aberdeen Aberdeenshire AB24
5RP (GB). **WISCHIK, Claude Michel**; TauRx Therapeu-
tics Ltd., 395 King Street, Aberdeen Aberdeenshire AB24
5RP (GB).

(74) Agent: **MEWBURN ELLIS LLP**; Aurora Building, Coun-
terslip, Bristol BS1 6BX (GB).

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(54) Title: METHOD OF PREDICTING ADAS-COG SCORE

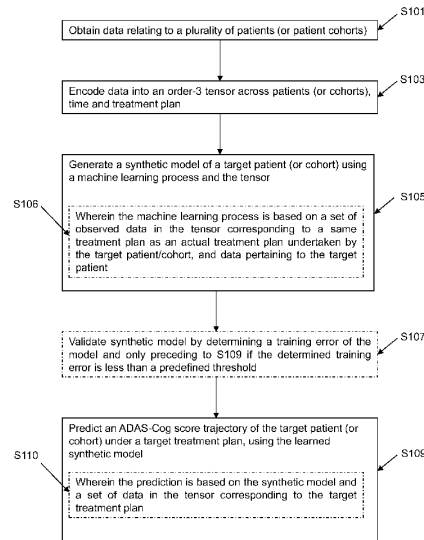


Fig. 6

(57) Abstract: A method for predicting a patient or patient cohort's cog-
nition score on the Alzheimer's Disease Assessment Scale – cognitive sub-
scale (ADAS-Cog). The method comprises obtaining data relating to a plu-
rality of patients or patient cohorts, the data including information relating to
the longitudinal trajectories of the plurality of patients', or patient cohorts',
ADAS-Cog score over time, each patient or patient cohort having under-
gone a treatment plan selected from a plurality of treatment plans; encoding
the data into a tensor across patients or patient cohorts, time and treatment
plan; generating a synthetic model of a target patient or target patient cohort
using a machine learning process and the tensor; and predicting an ADAS-
Cog score of the target patient or target patient cohort under a target treat-
ment plan selected from the plurality of treatment plans, using the synthetic
model.

LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
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