

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 December 2022 (08.12.2022)



(10) International Publication Number
WO 2022/256346 A1

(51) International Patent Classification:

G16H 20/10 (2018.01) A61K 39/00 (2006.01)
G16H 50/20 (2018.01) A61K 9/00 (2006.01)
G16H 50/50 (2018.01) A61K 45/06 (2006.01)
G16H 70/20 (2018.01) A61P 35/00 (2006.01)
G16H 70/40 (2018.01) G16H 10/40 (2018.01)
G16H 70/60 (2018.01) G16H 20/17 (2018.01)

[US/US]; 8814 Tropical Court, Fort Meyers, FL 33908 (US).

(74) Agent: **LARSEN, Charles, D.** et al.; White & Case LLP, 75 State Street, Boston, MA 02109 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(21) International Application Number:

PCT/US2022/031650

(22) International Filing Date:

31 May 2022 (31.05.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

63/194,987 29 May 2021 (29.05.2021) US

(72) Inventors; and

(71) Applicants: **MOULD, Diane, R.** [US/US]; 8814 Tropical Court, Fort Meyers, FL 33908 (US). **MOLNAR, Steve**

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,

(54) Title: SYSTEMS AND METHODS FOR MONOCLONAL ANTIBODY NOMOGRAMS

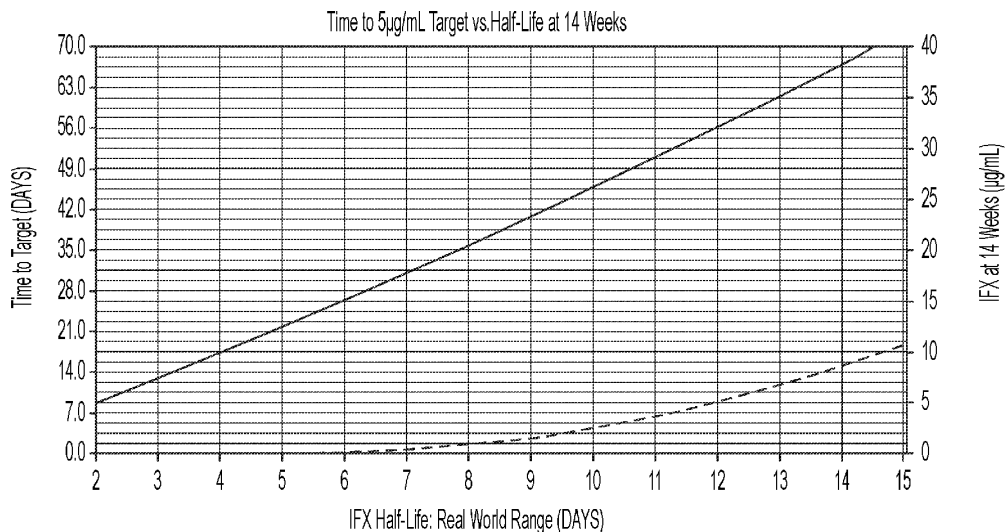


FIG. 1A

(57) Abstract: Provided herein are systems and methods for constructing and using nomograms for adjustment of dosing regimens. The nomograms use measured drug concentration data to determine a specific patient's effective half-life for a drug or set of drugs. The patient-specific effective half-life is used to determine the time at which the drug concentration in the patient's body will reach a target concentration after administration of a dose. Label dosages and dosing intervals are based on an average patient, so adjustment of a dosing regimen for a specific patient better accounts for the patient's unique pharmacokinetic interaction with the drug.

[Continued on next page]

UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*