(A) NCT03621761 (Multiple Sclerosis)

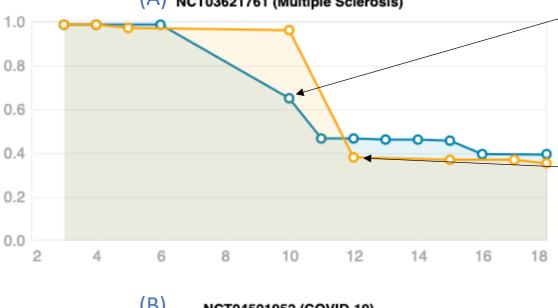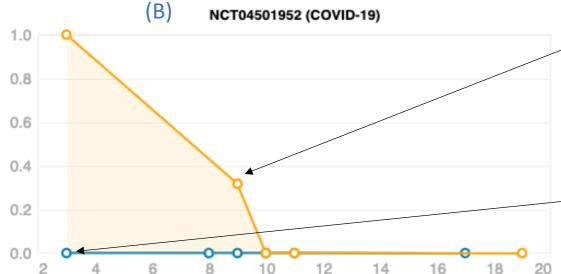*Exclusion:* "Current *shift work sleep disorder*, or *narcolepsy diagnosed with polysomnography and multiple sleep latency test*"

LeafAI excluded patients with diagnoses of drowsiness, snoring, etc.

Exclusion: "Current *stimulant* or *wake-promoting agent* use (such as amantadine, modafinil, methylphenidate, or amphetamine) within 30 days of screening"
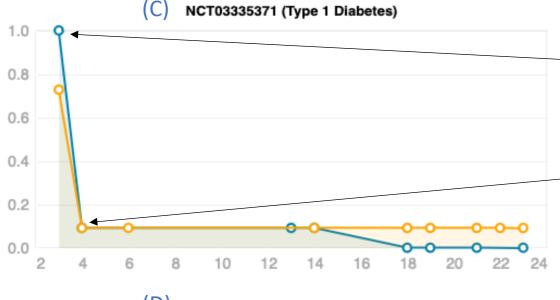
Many patients appeared to have orders for stimulants over the course of the trial, though those orders may not have occurred within 30 days of screening, the dates of which were unknown to the human programmer and LeafAI.

(B) NCT04501952 (COVID-19)

"*Severe acute respiratory syndrome* (SARS)-coronavirus (CoV)-2 infection confirmed by molecular diagnosis (nucleic acid (polymerase chain reaction (*PCR*) or *antigen testing*) ≤ 4 days prior to screening"

Some patients had no PCR or antigen results in our system during this time and are presumed to been tested elsewhere.

"Willing and able to provide written informed consent, (individuals ≥ *18 years of age*) or assent (individuals ≥ 12 and < 18 years of age) prior to performing study procedures. Individuals age ≥ 18 years may be enrolled ... For individuals ≥ 12 and < 18 years of age ...."

LeafAI queried for patients older than 18 and younger than 18 and older than 12, which is not possible, and found zero.

(C) NCT03335371 (Type 1 Diabetes)

"People diagnosed with *T1DM*, confirmed diagnosis prior to 40 years of age and a diagnosed for minimum of 1 year."

Human queried using A1c > 6.5%, while LeafAI use diagnosis codes.

"Type 1 diabetics using either continuous subcutaneous *insulin infusion* (with lispro or aspart) or multiple daily doses of *insulin*"

Few patients appeared to have insulin orders within our system. We hypothesize that most of the enrolled instead receive insulin from pharmacies outside of our hospital system.

(D) NCT04217551 (Cardiac Arrest)

"Cooled to <34 deg C within 240 minutes of *cardiac arrest*"

LeafAI failed to normalize "deg", so ignored the temperature, but searched for diagnoses of cardiac arrest.

"*Coma* after *resuscitation* from out of hospital *cardiac arrest*"

Human queried for coma diagnosis, which no enrolled patients had. LeafAI failed to normalize "resuscitation" and skipped this criterion.