Pharmacokinetics is NOT From the Devil’s Workshop

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Apparently, not all people are the same
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TB Drug Doses

We give nearly every human on the planet:

Isoniazid 300 mg
and
Rifampin 600 mg
TB Drug Doses

The “maximum” dose equals the “minimum” doses.

The **probability** that one and only one dose (example: rifampin 600 mg) is both the correct maximum and the correct minimum dose for nearly every human on the planet is approximately ZERO.
TB Drug Doses

Repeat after me:
Rifampin 600 mg is the wrong effing dose.

Try starting with 1,200 mg...
It’s gonna make you proud.

Someday, 2,400 mg will be all the rage...
TB Drug Doses

Most TB drugs display concentration–dependent killing of Mtb.

Higher concentrations... more killing of Mtb.

Measuring concentrations allows you to select patients for higher doses... to get more killing of Mtb... which is the entire point of giving the drugs in the first place.
Patterns of Absorption with Oral Drugs

- **Delayed**
- **Malabsorption**
- **Normal**
Patterns of Absorption with Oral Drugs

Even the ancient Romans knew this.

Hence their saying: “stercus accidit”

Translation: sh** happens

There... I feel better...
Many Thanks to...
Many Thanks to...
Many Thanks to...
Many Thanks to...
Many Thanks to...
Many Thanks to... All of You

My mother thanks you. My father thanks you. My sister thanks you. And I thank you.

In Yankee Doodle Dandy
By George M. Cohan