

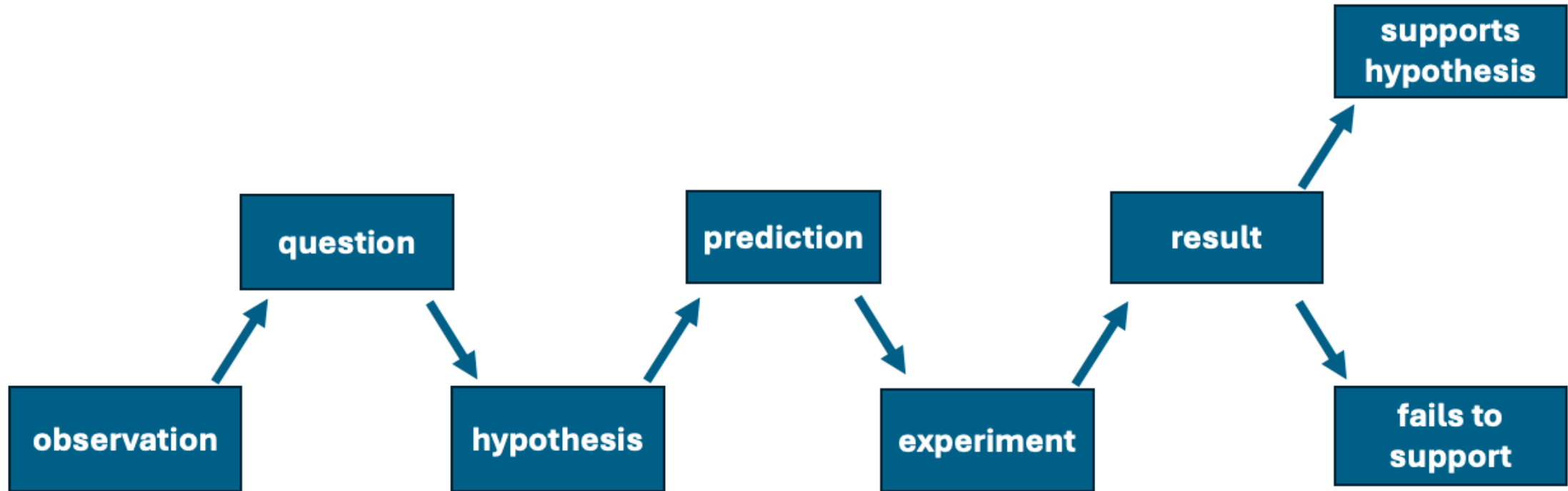
The Process of Science



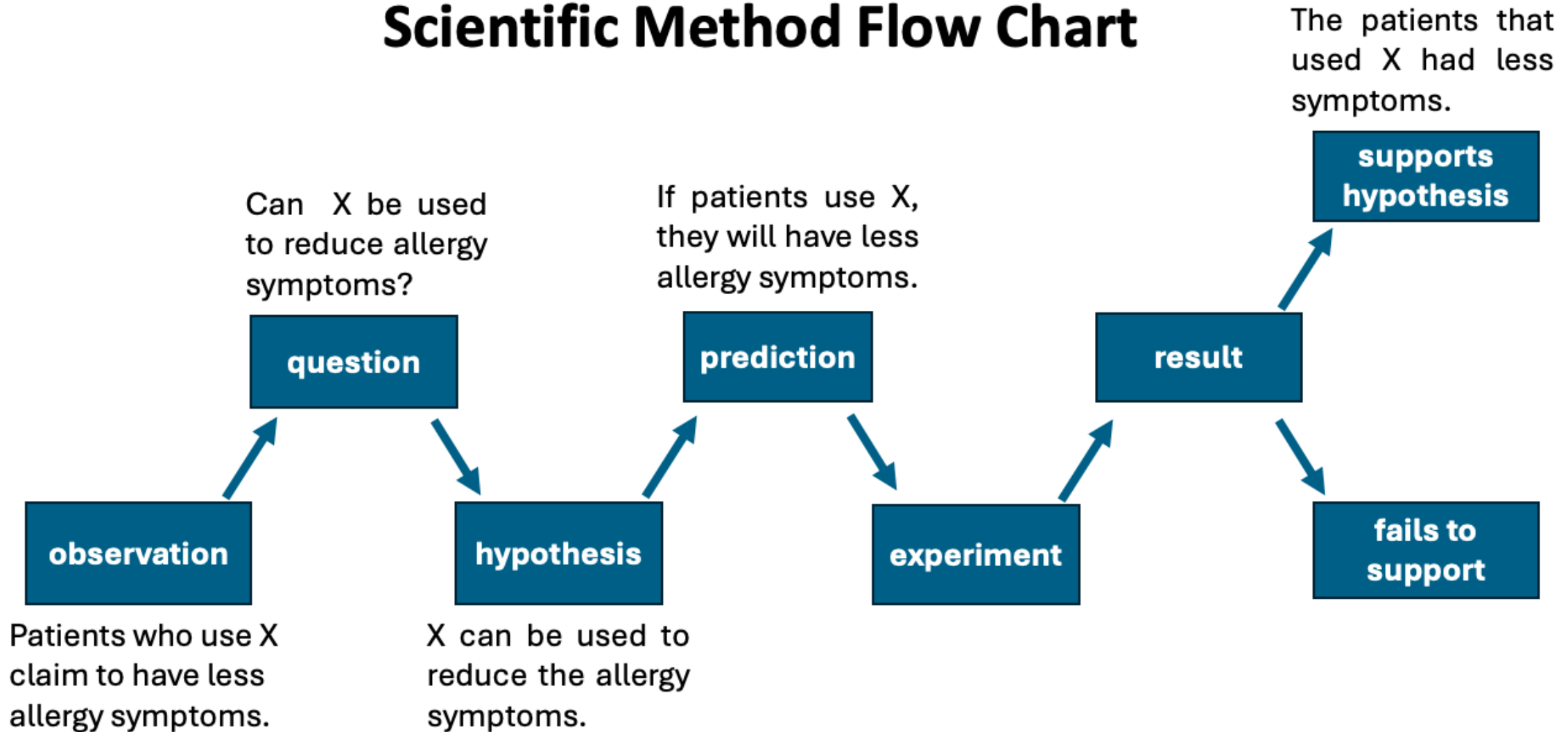
- **Descriptive science:** Gathering information on a given subject or phenomenon without expectation of a given outcome. A good example of descriptive science is the tagging animals to explore migratory patterns.
- **Hypothesis-driven science:** Using the scientific method to address questions about a given phenomenon. This includes:
 - ✓ **Manipulative experiments:** Experiments that involve controlled settings where the experimenter manipulates of the variables of interest. Drug trials and lab experiments are examples of manipulative experiments.
 - ✓ **Natural experiments:** Experiments that involve the hypothesis-driven collection of data from existing conditions. A good example of a natural experiment is the collection of medical data from people accidentally exposed to an agent that may or may not cause harm.



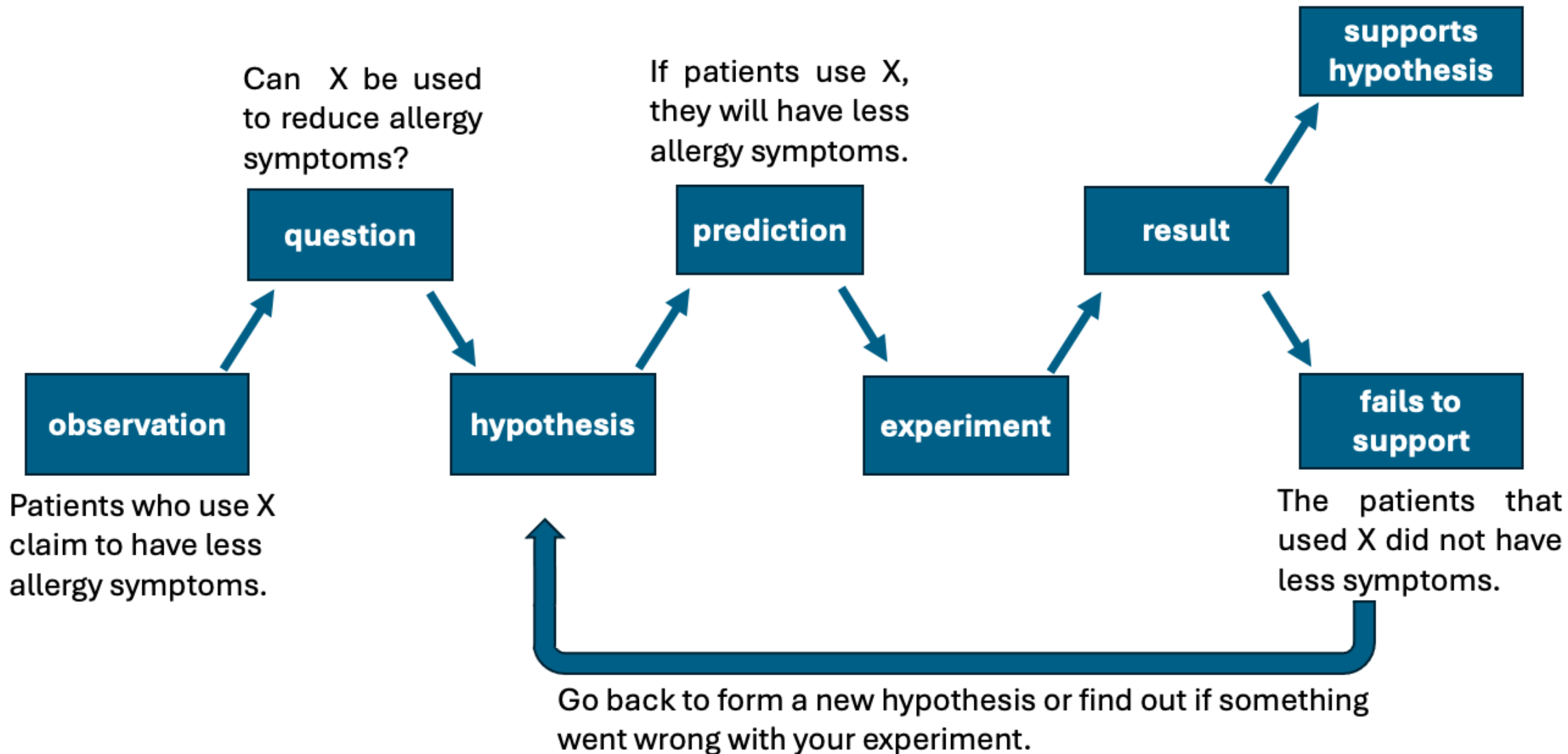
Scientific Method Flow Chart



Scientific Method Flow Chart



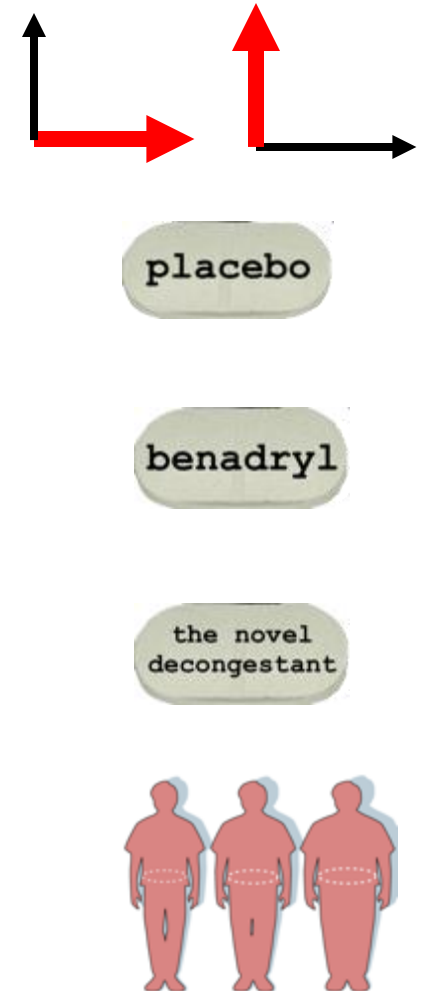
Scientific Method Flow Chart



Experimental Design

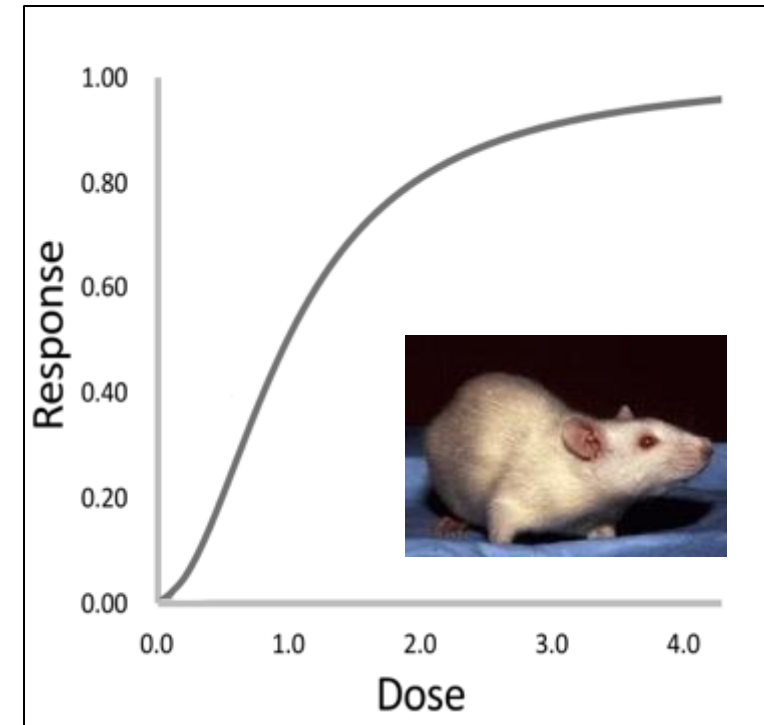
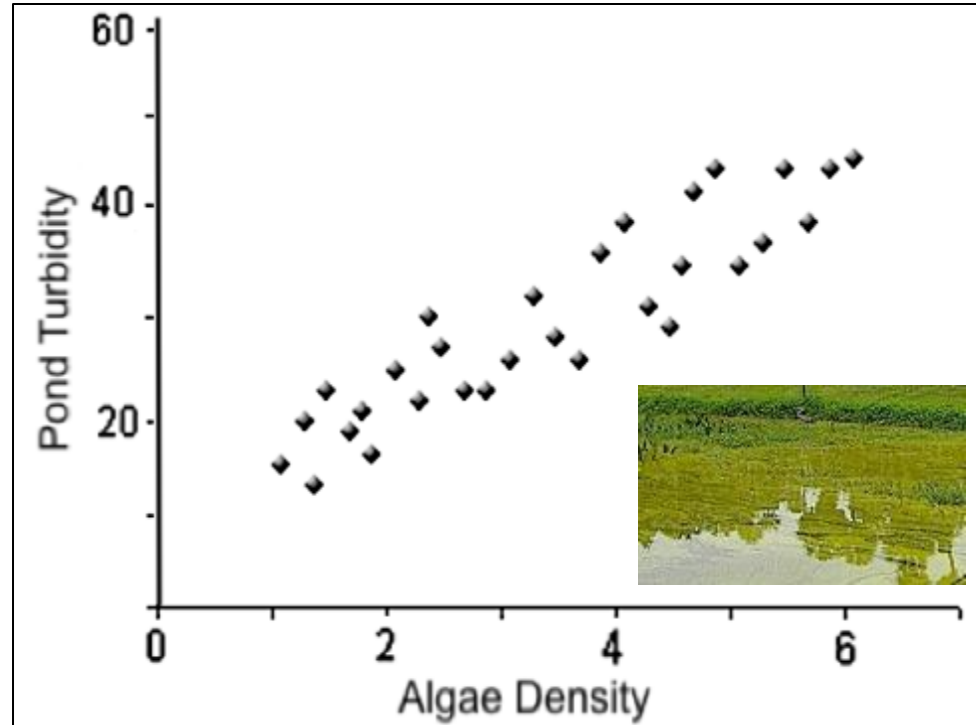
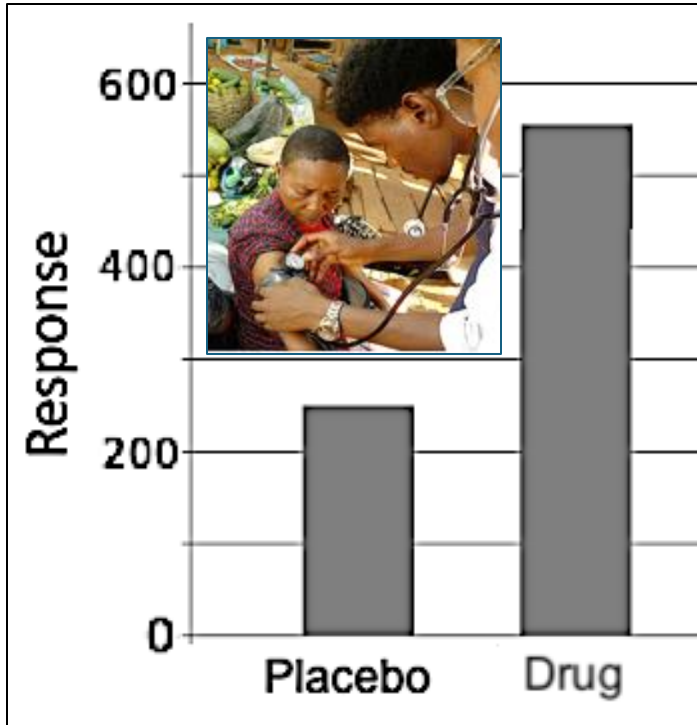


- Independent variable: the probable cause (x-axis)
- Dependent variable: the probable effect (y-axis)
- Negative control: produces a (-) result when a (-) result is expected
- Positive control: produces a (+) result when a (+) result is expected
- Experimental group: group subjected to the novel treatment
- Confounding variables: variables not under observation that can affect the data



Presenting Results

- **Bar graphs** display qualitative differences in treatment.
- **Linear graphs** display quantitative differences in treatment. These include:
 - Scatter plots: Commonly used in natural experiments to explore correlation in pre-existing data.
 - Dose-response: Commonly used in toxicity studies and drug evaluations.



Results that are in the public interest get published in scientific journals in order to contribute to the overall body of scientific knowledge.

THE LANCET



Science



frontiers nature



Manuscripts submitted to scientific journals undergo a rigorous process of peer review by other scientists in the same field. Peer reviewers determine whether or not the results are fit for publication.

Peer review is meant to screen out questionable data, but it is far from perfect...



[Image Creator from Microsoft Bing](#)

In 2015, the editor of the Lancet Dr Richard Horton declared, “**Much of the scientific literature, perhaps half, may simply be untrue.** Afflicted by studies with small sample sizes, tiny effects, invalid exploratory analyses, and flagrant conflicts of interest, together with an obsession for pursuing **fashionable trends** of dubious importance, science has taken a turn towards darkness.”

<https://www.drugawareness.org/editor-of-lancet-medical-research-is-unreliable-at-best-or-completely-fraudulent/>

Five years later, the Lancet fell victim a major instance of fraud!

In May 2020 *The Lancet* published a study showing COVID-19 patients treated with hydroxychloroquine dying at a higher rate than patients not receiving this drug.

The WHO and governments all over the world responded by limiting access to this commonly used generic drug.

This study was retracted when readers started reporting glaring inconsistencies in the hospital data, and the third party providing the data suddenly became unavailable.

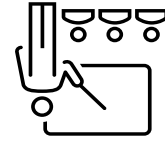


Sapan Desai, head of Surgisphere

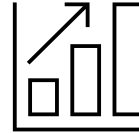
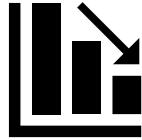
At the time of publication, one of two lead co-authors was conducting trials with the far more profitable COVID treatment, Remdesivir.

Disclaimer: *This is not medical advice!* The antiviral properties of hydroxychloroquine are still disputed.

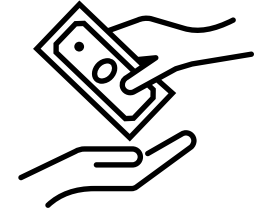
Red Flags for Discerning Fraud



- **Is it corroborated?** *Does it concur with raw data? Does it concur with independent sources?*

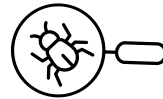


- **Who benefits?** *Do any of the authors have a conflict of interest?*

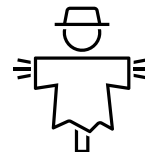
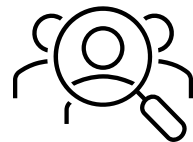


- **How do the authors and their supporters react when confronted with contrary evidence?**

✓ **Legitimate:** *Criticism that focuses on specific details of the science (itemized)*



✓ **Evasive:** *ad hominem attacks, straw manning, gaslighting, censorship*



Be wary of “astroturfing.”



The whole point of astroturf is to try to convince you there's widespread support for or against an agenda when there's not.

Sharyl Attkisson, investigative reporter

<https://sharylattkisson.com/2016/07/top-10-astroturfers/>

Example: You choose to “do your own research” on the efficacy of a given drug, not knowing that your search engine was rigged (via bots & algorithms), your primary care doctor was nudged (via free samples & workshops) and your other mainstream sources like media and “authoritative” sources were captured (via sponsors, donations, job offers, & partnerships).



A real-life example of a rigged algorithm: The same search terms display totally different results. The search engine “Yandex” displays lawsuits over misuse of Remdesivir while Google buries them.

Google danielle alvarez remdesivir

LinkedIn
https://www.linkedin.com › danielle-alvarez-a2306bb

Danielle Alvarez
View **Danielle Alvarez's** profile on LinkedIn, the world's largest professional community. Danielle has 3 jobs listed on their profile.
Missing: remdesivir | Show results with: remdesivir

ACS Publications
https://pubs.acs.org › doi

Practical and Highly Efficient Synthesis of Remdesivir from GS ...
by T Hu · 2022 · Cited by 1 — A three-step sequence for preparing remdesivir, an important anti-SARS-CoV-2 drug, is described. Employing N,N-dimethylformamide dimethyl ...

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https://www.linkedin.com › danielle-alvarez-19635491

Danielle Alvarez - Health System Pharmacy Administration ...
Danielle Alvarez. Health System Pharmacy Administration and Leadership Resident at The University of Texas MD Anderson Cancer Center.
Missing: remdesivir | Show results with: remdesivir

bioRxiv
https://www.biorxiv.org › content

Probing remdesivir nucleotide analogue insertion to SARS ...
by ME Romero · 2021 · Cited by 9 — Feng, Danielle P. Porter, and Matthias Götte. Remdesivir is a direct-acting antiviral that inhibits RNA-dependent RNA ...

Emory School of Medicine
https://med.emory.edu › directory › profile

Abeer Moanna MD - Profile | Emory School of Medicine
Abeer Moanna joined the division of Infectious Diseases at Emory as a junior faculty in 2005 at the Atlanta VA Medical Center. Abeer received her medical degree ...
Missing: danielle alvarez

Яндекс danielle alvarez remdesivir

Поиск Картинки Видео Карты Товары Переводчик Все

Rebecca's Story - COVID-19 Humanity Betrayal Memory Project
chbnp.org › cases/murdered-by-fda-death...danielle...
Danielle's symptoms worsened and Rebecca took her to the ER. ... As a result of treating Danielle with 10 days of Remdesivir, Danielle was placed on a ventilator "temporarily".
Читать ещё
Не найдено: alvarez

Pharmaceutical Murder With Remdesivir
drsircus.com › general/pharmaceutical...remdesivir/
U.S. public health anointed remdesivir the standard-of-practice for patients severely ill with stage-two inflammatory COVID in the ICUs all over America. Читать ещё
Не найдено: alvarez, danielle

Wrongful Death Lawsuit Filed Against Three California...
thegatewaypundit.com › 2022/09/wrongful...remdesivir...
Lawsuits were filed against three California health care providers on grounds they used failed Ebola drug Remdesivir on patients without obtaining informed consent... Читать ещё
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Remdesivir—Run! Death is Near... – Explore EVERY angle
pennybutler.com › remdesivir/
Dr Bryan Ardis on Remdesivir. Pennsylvania Senate (2 min Clip). "Remdesivir actually causes death of heart cells and is cardiotoxic and can lead to cardiac arrest. Читать ещё
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'Violated the Nuremberg Code': California Hospitals Face...
en-volve.com › 2022/09...violated-the...code...remdesivir...
#Breaking #BreakingNews LANDMARK CLASS ACTION LAWSUIT in #California for MURDER with #Remdesivir against the hospitals, medical centers, and #Doctors.
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Acknowledgement:



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