HUMANITY AT A TIPPING POINT
AI: A Physician In The Style Of Norman Rockwell
AI: What are the single important technological contribution in medicine in the next 10 years?

- **Artificial intelligence** and machine learning, which are being used to improve diagnostic accuracy, predict patient outcomes, and assist in drug discovery.
- **CRISPR-based gene editing**, which has the potential to cure genetic diseases and improve treatments for cancer.
- **Immunotherapy**, which is a form of treatment that harnesses the power of the immune system to fight disease.
- **Stem cell therapies**, which have the potential to repair and regenerate damaged tissue.
- **Nanotechnology**, which is being used to develop targeted drug delivery systems and diagnostic tools.
- **Telemedicine**, which will enable doctors to remotely monitor patients, increase access to care, and reduce healthcare costs.
The Expanded “Computational Parameters” of GPT-4

GPT-3

175,000,000,000

GPT-4

100,000,000,000,000,000
You Are Here!

The Future is Ours to Design
Change, And The Rate Of Change

Accelerating Growth in Technology

LEGACY RESEARCH GROUP
A Tsunami Of Data

Big Data: Expanding on 3 fronts at an increasing rate.

Every day, we create 2.5 quintillion bytes of data — so much that 90% of the data in the world today has been created in the last two years alone.
The Data Dilemma And The Clinical (Human) Utility Gap
A FEW UN-RULES OF EXPONENTIAL INNOVATION
Exponential Growth Is Tricky

**Danger Zone**

**Linear Trajectory**

**Exponential Trajectory**

**CHANGE**

**TIME**
Senior healthcare IT leaders from the College of Healthcare Information Management Executives (CHIME) were asked what was the top obstacle to digital transformation that faces your organization. (n = 91)
Culture Destroys Innovation
Collaboration And Mediocrity
The New Collaborative Dynamic

(Who is the smartest person in the room?)
Innovation And Adoption: The Dvorak Keyboard
The Rule Of Punctuated Equilibrium
Steve Jobs’ Radio Show And Lesson For Telemedicine
The Duality Of Wonder & Fear
Moving Beyond Just IQ & EQ
It’s Not Innovate, It’s Synchrovate!

- AI
- Fintech
- Genomics
- Robotics
- Digital Health
- 3D Printing
- Autonomous Vehicles
Synchrovation in Practice
Technology Tips The Scale In Your Favor

Overview of artificial intelligence in medicine. J Family Med Prim Care. v.8(7); 2019 Jul
INNOVATION ON YOUR RADAR
AliveCor—From Office To Amazon
Nanox—Digitizing The X-Ray Source
EKO—Reinventing The Stethoscope
Nocira—Treating Migraines With A Puff of Air
Profusa—Disrupting The Disruptor
A THOUGHT ABOUT TOMORROW
“The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn.”

— Alvin Toffler
Thank You

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