



NANYANG
TECHNOLOGICAL
UNIVERSITY
SINGAPORE

LEE KONG CHIAN SCHOOL OF
MEDICINE

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When they come in, they will always vows ...



What's wrong in healthcare today is that it's missing care. We doctors don't get to care for patients enough. And patients don't feel they are cared for.

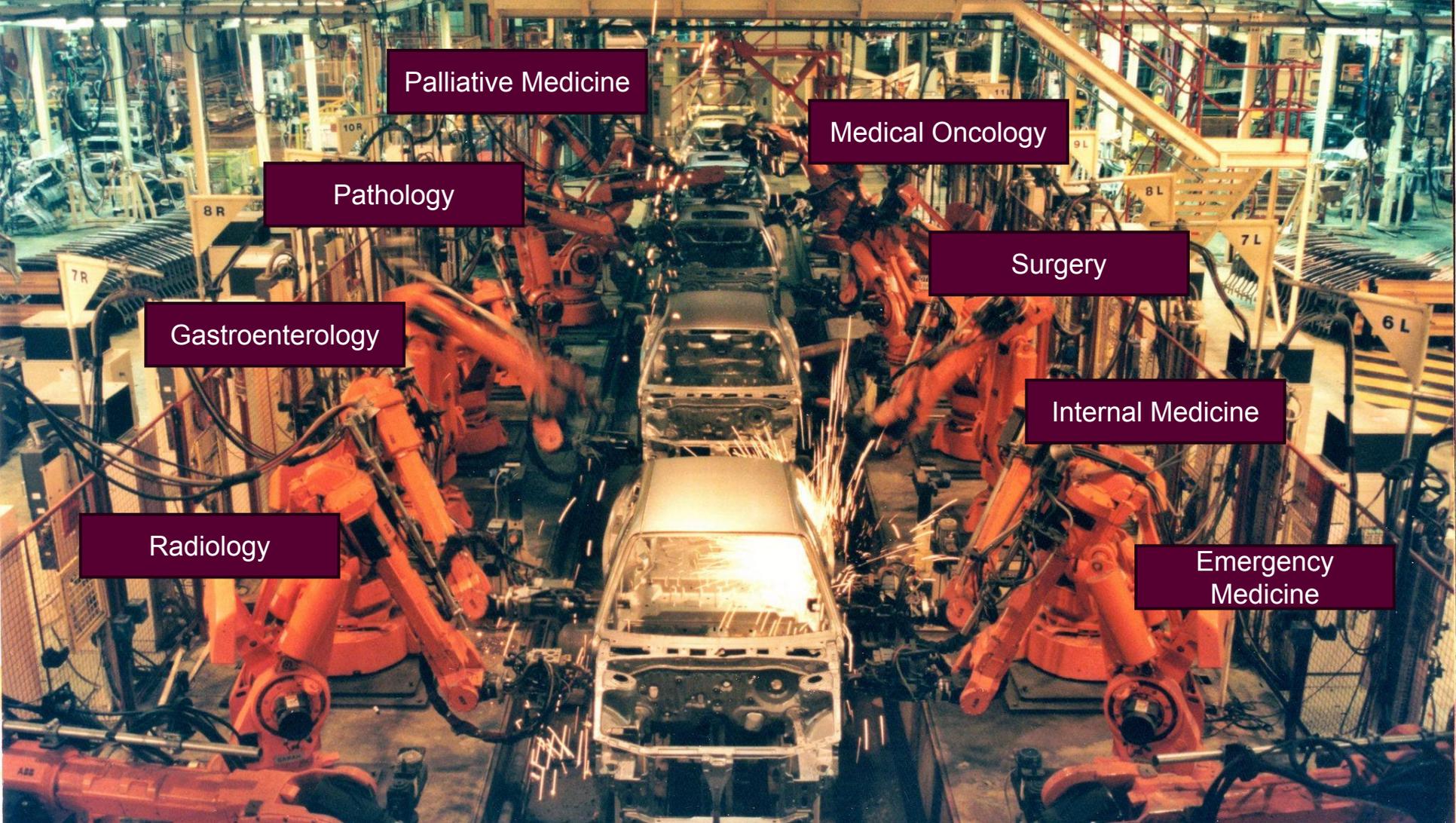


Healthcare in the United States

Metric	1975	2019
No. of healthcare jobs	4 million	> 16 million (#1 US economy)
Healthcare spending per person	\$550/year	>\$11,000/year
Time allotted for office visits	60 min new 30 min return	12 min new 7 min return
% of GDP healthcare	<8	18
Hospital daily room charge (average)	\$100	\$4,600
Patient satisfaction	Good	Modest/Bad



Why are doctors burning out?



Palliative Medicine

Medical Oncology

Pathology

Surgery

Gastroenterology

Internal Medicine

Radiology

Emergency
Medicine



While we have all the *means*, we have lost the *meaning* of

Medicine



Original Investigation

ONLINE FIRST

April 28, 2023

Comparing Physician and Artificial Intelligence Chatbot Responses to Patient Questions Posted to a Public Social Media Forum

John W. Ayers, PhD, MA^{1,2}; Adam Poliak, PhD³; Mark Dredze, PhD⁴; et al

» Author Affiliations

JAMA Intern Med. Published online April 28, 2023. doi:10.1001/jamainternmed.2023.1838



THEGUARDIAN.COM

AI has better 'bedside manner' than some doctors, study finds
ChatGPT rated higher in quality and empathy of written advice, raising possibi...



London
9:42 PM

DANGERS OF A.I.

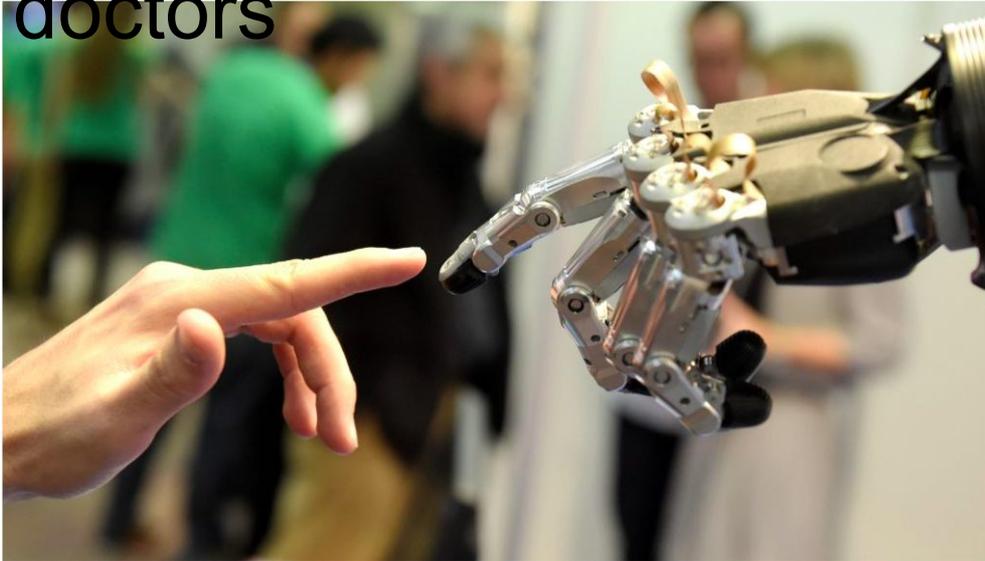
"GODFATHER OF A.I." QUILTS GOOGLE TO WARN ABOUT LOOMING DANGERS

Geoffrey Hinton | Known as the "Godfather of A.I."



THE LEAD

AI is coming to Medicine: Redefining the role of doctors



The rise of artificial intelligence as a type of maggot therapy: It consumes only those portions of the physician's work that are no longer human, restoring us to health.

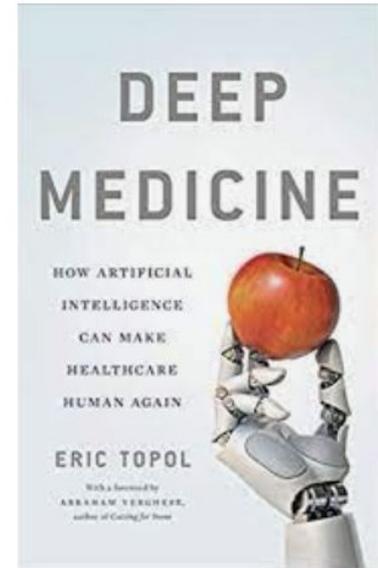
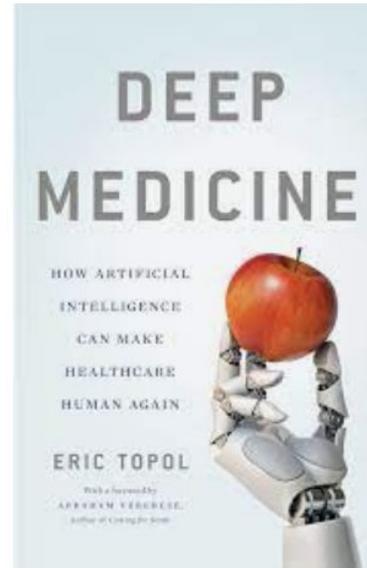
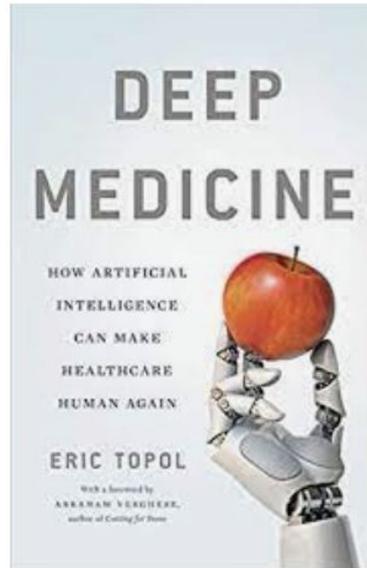
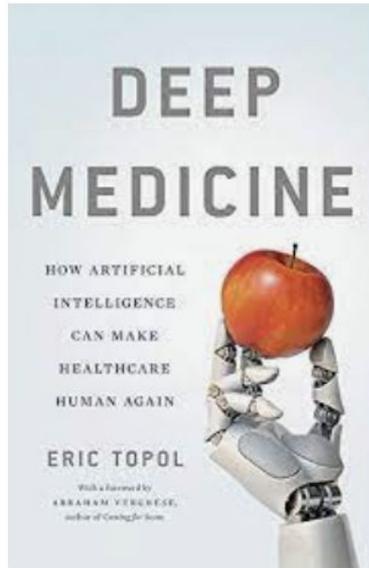
The future will hold a role for physicians somewhere among the technologies that diagnose and target therapy. As the human body becomes digitized and quantified, there will be an emerging role in shaping individual human information as knowledge

Only through machines...
will we be able to understand what it is to be
human

Deep Medicine

- Deep phenotyping
- Deep Learning
- Deep Empathy

Connection
between patients
and clinicians





- Loss of autonomy in medical decision-making
- Burdensome and time-consuming paperwork
- Fear of malpractice litigation
- Financial disincentives....
- Threaten clinical livelihood and the sense of responsibility and professionalism

Robot doctor





Human-centric attitudes and behaviors being fostered in medical schools are not always finding their way into specialist clinics and hospital floor.

ORIGINAL ARTICLE

A Major Outbreak of Severe Acute Respiratory Syndrome in Hong Kong

Nelson Lee, M.D., David Hui, M.D., Alan Wu, M.D., Paul Chan, M.D.,
Peter Cameron, M.D., Gavin M. Joynt, M.D., Anil Ahuja, M.D.,
Man Yee Yung, B.Sc., C.B. Leung, M.D., K.F. To, M.D., S.F. Lui, M.D.,
C.C. Szeto, M.D., Sydney Chung, M.D., and Joseph J.Y. Sung, M.D.



病房 8 A B
Wards 8A B

From 1 index case
138 hcw, patients or visitors got SARS

20 doctors
34 nurses
15 allied health
16 medical students





"I felt really glad and grateful, not only because I survived, but also because I suddenly start to appreciate many "small things" in life. From being a healthcare provider to becoming someone at the receiving end, such a sudden and dramatic role change generate an impact greater than I could ever image..."



J Thorac Cardiovasc Surg. S Wan

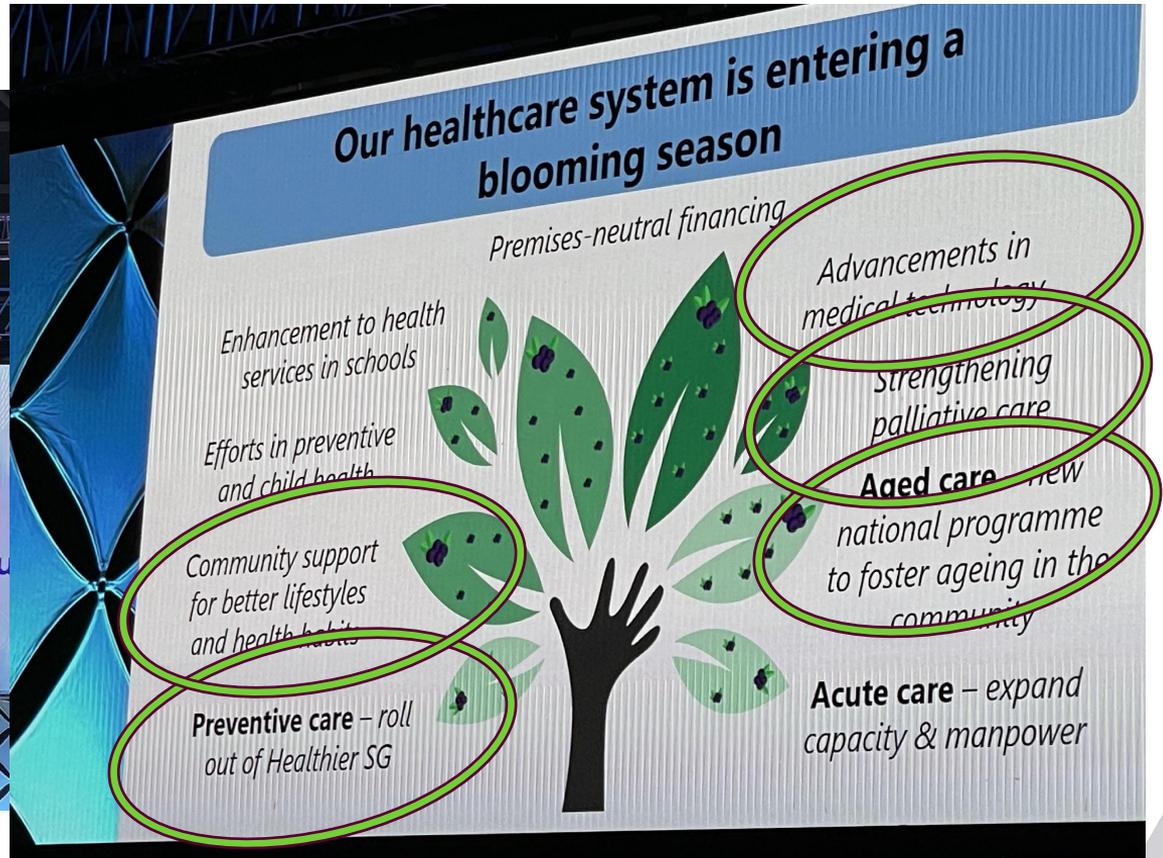


Practice of medicine is primarily a humanistic endeavor, not a scientific one.

Z Neuwirth



We are Ministry of Health, not Ministry of Sickness



Reflections on Healthcare System: Singapore & Hong Kong

- Public should take responsibility of their health
- Prevention of disease is better than management of complication
- Giving back the meaning of Medicine to Healthcare workers
- Learn how to work with technology and AI to improve healthcare



To the World, You are just one person,
To one person, You are the World



18 year-old Irish boy suffered from Crohn's disease, presenting with chronic diarrhea, incontinent and weight loss. He stopped going to school, end all his social life and stayed at home 24/7.

