

Daniel Kraft

Physician, Scientist, Entrepreneur, and Repeat TED Speaker

The Future of Health & Medicine, Where Can Technology Take Us? A fast-paced look at the impact and potential of accelerating technologies (from AI, Big Data, Wearables, Digital Health, Personal Genomics, Synthetic Biology, to Virtual/Augmented Reality, 3D printing and beyond), An update on what's 'Now, Near and Next' across health and wellness, prevention, diagnostics, therapeutics, health span and the future of healthcare and biomedicine. Actionable steps that healthcare leaders, organizations, clinicians to consumers & patients can take to leverage many exponential technologies and to integrate novel solutions to address challenges across the healthcare continuum.

Generative Health: How A.I. and GPT is Reshaping Healthcare & Biomedicine As GPT / LLMs and Big Data advance rapidly they are having profound implications on society, and especially on the practice of medicine, clinical care, self-care, to catalyzing drug discovery and exciting new approaches to address many grand challenges in health in medicine. This talk will highlight a '101 on AI related to healthcare' and provide compelling examples of the state-of-the-art and ways to apply to prevention, public health, diagnostic and therapy. Dramatic and disruptive implications for democratizing access to health data, insights and actionable information coming from wearables, to 'digital twin' models. Share a view of the art of the possible and what's coming next, and how clinicians, leaders and organizations can engage and prepare for the new AI enabled 'Generative Health' age.

Catalyzing a New Health Age: The future of health, medicine & longevity Covid acted as a catalyst for healthcare innovation, from the acceleration of mRNA vaccines to virtualized care, novel home diagnostics to digitally enabled medicine and remote patient monitoring. This talk will explore the convergence of emerging and rapidly developing technologies beyond traditional 'sick care', to true 'health' care. Ways that individuals to clinicians to health systems can provide more personalized, proactive care models to optimize for long, healthy lives (health span), including addressing and optimizing the social determinants of health. Explore the cutting edge of approaches to extending lifespan, from novel therapeutics to stem cell and regenerative medicine, emerging gene therapy and beyond.

The Digital, Data and AI Enabled Future of Prevention, Diagnostics and Therapy As health and medicine becomes more data driven, leveraging everything from wearables and digital biomarkers, virtual reality to Internet of Medical Things, and the availability of low cost personal 'omics', new avenues open to help optimize health and prevention, diagnose disease at 'Stage 0' and better integrate crowd-sourced knowledge to optimize wellness, therapy and outcomes. This talk will explore emerging examples of next-gen wearables and 'otherables' in our increasingly mobile,

connected, AI and digitally enabled world and how digital health and medicine has the potential to reshape almost every element of health(care), while improving access, equity and improving outcomes at lower costs. Lessons from disruptions in other fields and how they apply to healthcare and medicine. Tools and resources the audience can use today to uplevel their own health and 'self-care' and offerings of their organizations (whether healthcare focused) can begin to leverage today, and set themselves up for success and positive impact in the future.

Medical Innovation & the Accelerating Future: Being proactive instead of reactive. New approaches to diagnostics, from molecular to digital Redesigning care on the frontlines from the ER/ICU to primary care Acceleration of virtualized care, from telemedicine to connected, data driven Therapy acceleration: from drug discovery and clinical trials to vaccine development Public health/global health collaborations and emerging platforms that will impact the future of health and medicine, to prevention, detection and response of future pandemics

From Hospital to Home: Prevention, diagnostics, and care is increasingly moving out of the 4 walls of the clinic, ER, and hospital. Understanding the accelerating use of connected health solutions, remote patient monitoring for high-risk patients, and standard care Cutting edge and future of telehealth Future of the hospital The Virtualist: role and abilities of the future clinician Digital health on steroids and what's coming next Regulatory and reimbursement: aligning incentives for the modern age

Augmented, Virtual, and Extended Reality How VR/AR/XR are reshaping health and medicine. AR, VR, and XR has a wide range of applications across healthcare and biomedicine. In this talk he explores many of the cutting-edge use cases and future potential for AR & VR in medical education and simulation, to therapy, telemedicine, and beyond.

Exponential Technologies, Mindset, and Innovation Understanding exponentials, disruption, and pace of change A dive into accelerating and exponential technologies, from AI, robotics, Big Data, and genomics, to VR, 3D Printing, Blockchain, and beyond Convergence: the role of convergence exponential technologies in reshaping Healthcare, Future of work, Travel (self-driving cars), Future of home (entertainment, social), Business models