RUTGERS Robert Wood Johnson Medical School

"Medical Affairs: Introduction & Overview"

Graduate School Workshop

Center for Advanced Biotechnology & Medicine
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Workshop Outline

- Medical Affairs (MA): An Overview
- World Café Exercise—Immediate Review of MA
- Case Simulation--Product Launch
- Group Presentations

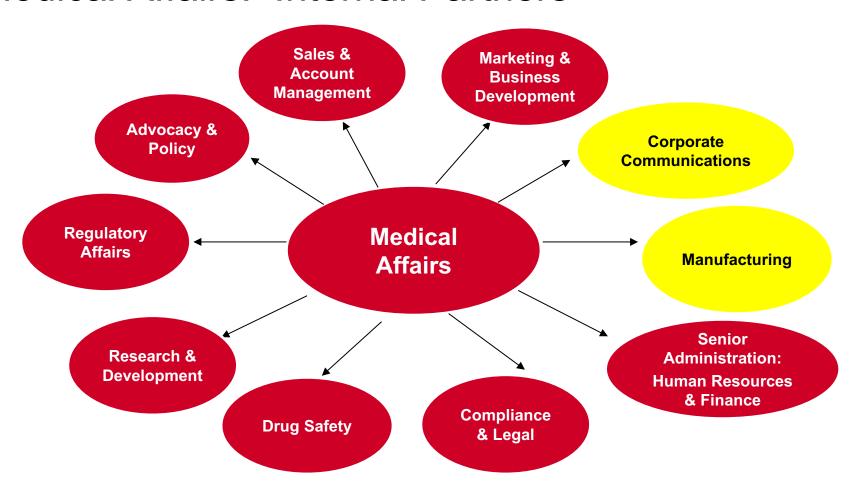
Context

For the First time in history:

Six generations living together in the world

• Four generations together in the workplace (to mirror Academia)!

Medical Affairs: Internal Partners



Medical Affairs: Functions



Medical Affairs Personnel & Credentials

- Predominantly with Scientific Backgrounds
- Increasingly with Business, Public Health, & Health Policy Backgrounds and Experience
- Masters Degrees
- Doctoral Degrees (PhD, PharmD, MD)
- New Board Certification in Medical Affairs

World Café Exercise

Sharing perspectives & understanding of the roles of Medical Affairs

Medical Affairs Defined

A dynamic and rapidly growing area of the Pharmaceutical and Device Industries that focuses on research, knowledge, and education and provides primary scientific and medical support for a company's marketed products and development pipeline

Digital Health ("EMT")

- eHealth
 - Electronic Records (EHRs/EMRs)
 - Patient Portals
 - Research applications/eCROs

mHealth

- Apps
- Sensors
- Wearables
- Point of Care Devices

tHealth

- Telehealth (Project ECHO)
- VA
- UPMC (Anywhere Care)

reSET© App

- First FDA approved clinical app (August 2017)
- Used in Addiction Medicine
- A tool that augments medications and therapy to extend patient sobriety
- Launched by Pear Therapeutics

"The Digital Pill"

- FDA Approved on 11/13/17
- First drug in the U.S. with a digital ingestion tracking system
- Abilify MyCite (aripiprazole tablets with sensor) has an ingestible sensor embedded in the pill that records that the medication was taken
- Indicated for the treatment of:
 - Schizophrenia
 - Acute treatment of manic & mixed episodes associated with bipolar I disorder
 - Add-on treatment for depression in adults

"The Digital Pill"—How It Works

- Sends a message from the pill's sensor to a wearable patch
- The patch transmits the information to a mobile application
- This App allows patient tracking of medication's ingestion on their smart phone
- Patients can also permit their caregivers & physician(s) to access the information through a web-based portal

SOCIAL MEDIA & MEDICINE

Trends

- Snapchat will be the newest customer communication channel of interest and growth for Pharma
- For Truvada marketing, Gilead uses Snapchat, Tumblr, & dating sites
- Twitter and LinkedIn are being utilized most frequently at major congresses for immediate dissemination of landmark data and press conferences
- Mobile is the most rapidly growing digital platform (but print is still valuable!)

Trends (cont'd)

Technology & Social Media will be utilized more prominently for solutions (health equity & translator services):

- 5G
- Augmented Reality & Virtual Reality
- Artificial Intelligence/Deep Learning & Artificial Neural Networks
- Video
- Audio enabled
- Internet of Things
- Point of Care
- WiGig
- Tileable Screens
- Blockchain

"May there never develop in me the notion that my education is complete but give me the strength and leisure and zeal continually to enlarge my knowledge."

- Maimonides -



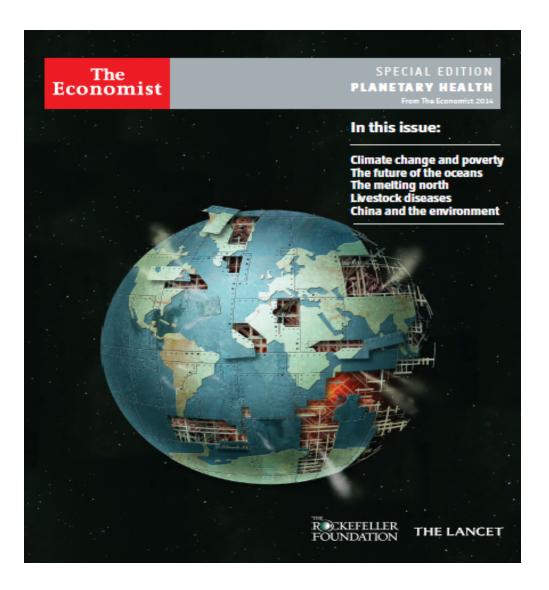
One Health Initiative



One Health Definition

- Worldwide strategy for expanding interdisciplinary collaborations & communications in all aspects of health care for:
 - Humans
 - Animals
 - The environment
- The synergism achieved will advance health care for the 21st century and beyond
- With proper implementation, it will help protect and save untold millions of lives in our present and future generations

Planetary Health



Planetary Health Initiative

- A new multi-disciplinary global effort
- Aims to identify solutions to health risks posed by our poor stewardship of our planet
- Seeks to influence both international & national approaches to health through:
 - Advocacy
 - Partnership
 - Awareness raising
- Plans to create policy change that better balances human advancement with environmental & biodiversity sustainability