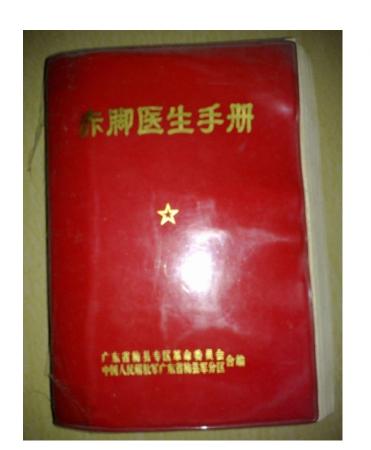
# 医疗健康数据生态 演变 与 开放

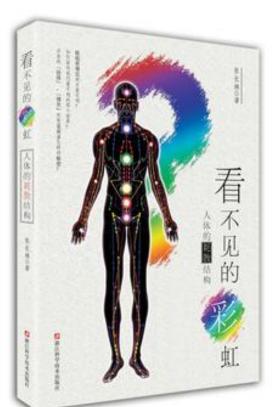
郑杰

2015.9.19

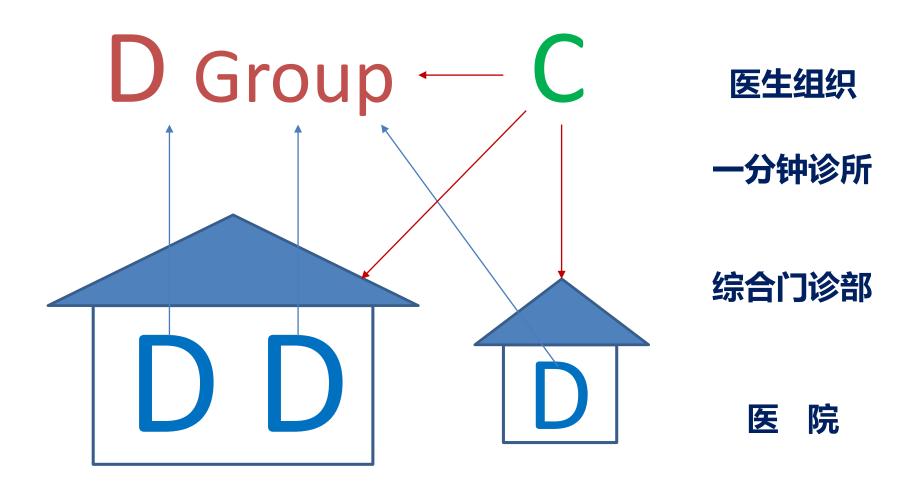




















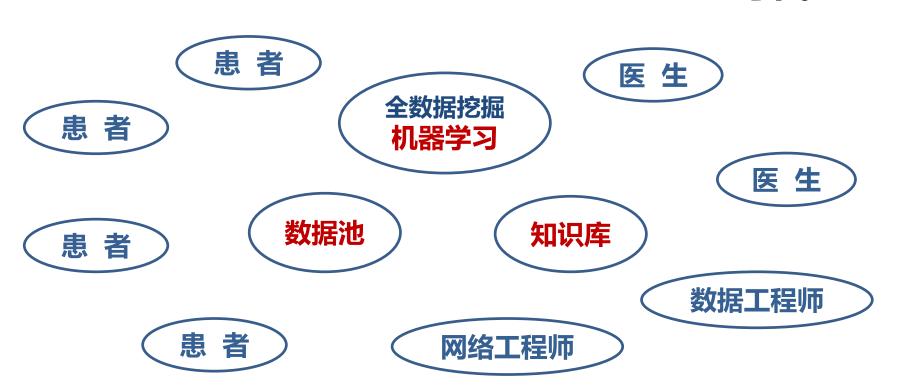




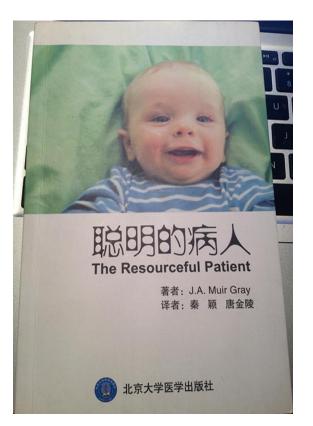


# 医学 学习 的 重定义

# MOOM 时代



# 医疗的 民主化 趋势







#### Web 1.0

- "The mostly read only web"
- · Focus on companies
- Homepages
- · Owning content







· Sharing content

write web"

Blogs

Web 2.0

· "The widely read and

· Focus on communities





#### Web 3.0

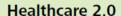
- "The portable personal web"
- · Focused on individuals
- Live streams
- Consolidation of dynamic content



#### Healthcare 1.0

- Medical provider as the source of ultimate reference
- Focus on institutions
- Advertising





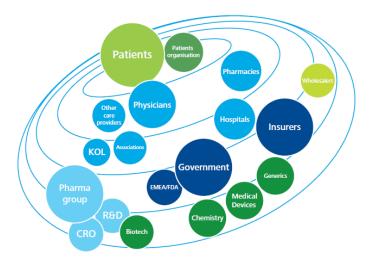
- Medical provider as an advisor on health matters
- Focus on doctors
- Word-of-mouth recommendation



#### Healthcare 3.0

- Multi-sourced influencers and enablers
- Focus on the Consumer-Patient archetype
- Self determination/ conclusion





# 个人生命基础 数据 集

# Personal Health Records (PHR)

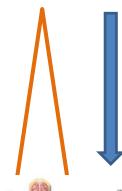
Defined as "a record controlled by the individual and may include health information from a variety of sources, including multiple health care providers and the patients themselves. The PHR is separate from, and does not replace the legal record of any health care provider."

 Office of the National Coordinator for Health Information Technology

#### **PHRs**

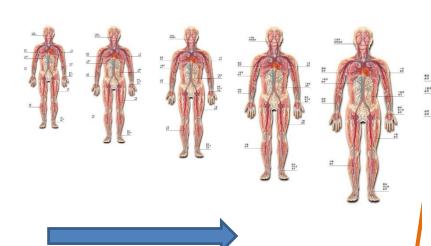
- Patient owns the accounts and controls the content
- Patient decides how and when information is shared
  - Many patients trust giving their physician access
- Patient can use PHR as a repository of all their health information
  - Not just from medical offices
  - May include data from health applications (apps)
  - May include self-entered data such as herbs, vitamins, and other home remedies





#### 时间尺度

#### 个人一生医疗健康数据完整性





人群样本的完整性

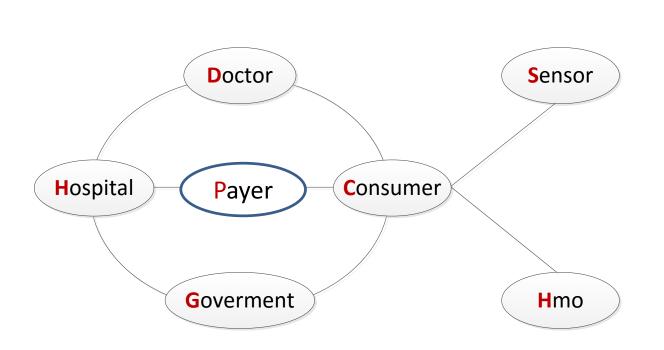


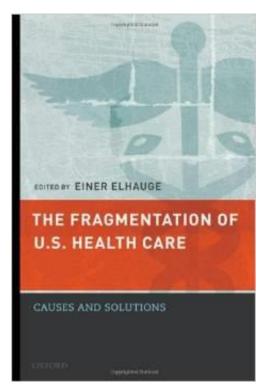






### 数据驱动医疗时代 的 医疗数据碎片化分布 Fragmentation

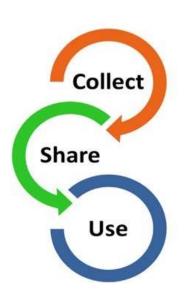




### 美国联邦政府

### 医疗信息化战略规划

2015 - 2020



**Collect** 

Goal 1: Expand Adoption of Health IT









Goal 2: Advance Secure and Interoperable Health Information

Share









Provider

Goal 3: Strengthen Health Care Delivery

Goal 4: Advance the Health and Well-Being of Individuals and **Communities** 

Use









Goal 5: Advance Research, Scientific Knowledge, and Innovation





Remember to ask your health care providers if they:
Use and provide access to
Electronic Health Records

#### Blue Button 缘起



• 2010.1.27 Markle 基金会在纽约召开主题为

#### "Consumer Engagement"的会议

- 讨论了大量的 HIT 数据标准、数据保密、隐私法律、以及像"堡垒"一样的健康数据中心。
- 为了尽快提供给患者,要平衡各方在数据标准上的利益。
- 会议中心主题转为: give patients their data
- 会议成员,现任美国CTO Todd Park 后来总结到: why can't we just let an American get a copy of their own information? And don't worry about the format, don't worry about the standards."

### What is Blue Button?

Blue Button is a way to get your health records electronically so you can...



#### Reference

your health records to be reminded when you had your last shot, or the exact date of a procedure.



#### Check

the accuracy of your records, monitor changes, and stay aware of your health status.



#### **Share**

with your doctor or someone else you trust, when traveling, seeking a second opinion, moving, switching insurance, or in case of emergency.



#### **Use Apps**

to help better manage and coordinate your healthcare to achieve your health goals.

# 国家开源医疗项目 - Direct



- Direct 项目由美国卫生信息协调办公室发起的开源项目 <a href="http://directproject.org/">http://directproject.org/</a>
- 工作组使用维基、博客和讨论列表进行每周及每月的会议 协同,有来自50个单位的200+的参与者来共同实现

# **Your Health Information Rights**

- Right to access your health information
- Right to an accounting of disclosures of your health information
- Right to correct or amend your health information
- Right to notice of privacy practices
- Right to file a complaint

# Lets Do It!





开放是态度 分享是精神 开源是手段 协作是形式

### OMAHA 的愿景

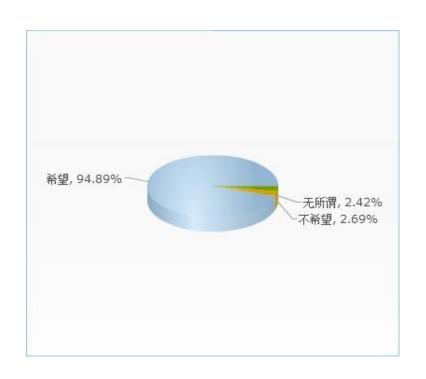
- 1、开启 数据归还运动、抵抗 数据碎片化
- 2、互操作标准:联盟协作、自下而上
- 3、开源医疗软件和协议、开放数据库
- 4、丰富鼓励应用市场,形成闭环

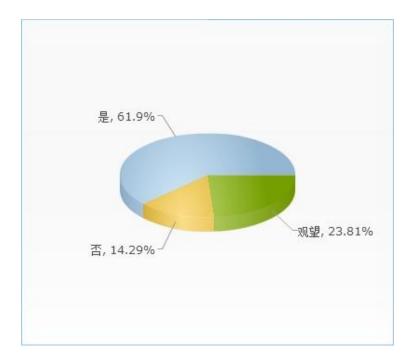
### 医疗服务机构 数据开放度 调查



• 94.89%的患者希望



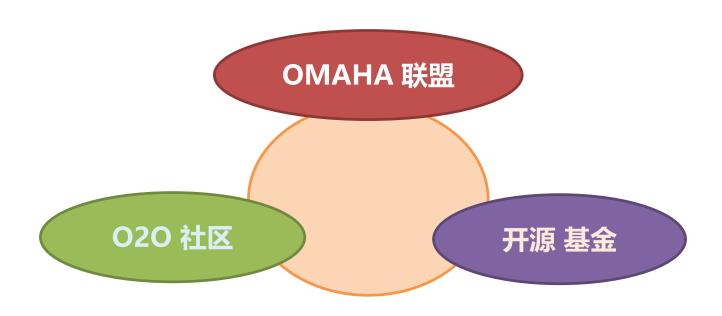




### OMAHA 技术 社区

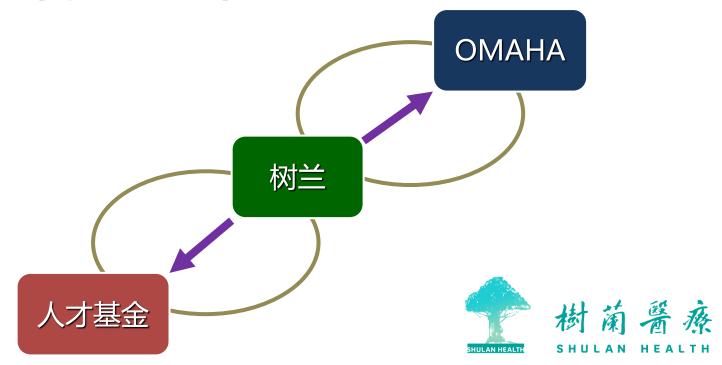
- 载体:OMAHA论坛、微信、邮件列表、会员交流平台;
- **在线标准协作工作组**,医疗健康信息术语等标准;
- Open PHR 工作组,开放个人健康档案的格式制定;
- **医疗健康开源工作组**,医疗健康领域的开源项目交流推广;
- 开源医疗黑客大赛

### **Future of OMAHA**





# 服务与探索的闭环



# What will Future Medical Group Be?



- · 如何数据驱动
- 如何创新组织
- ・ 如何去中心化
- ・如何患者中心







未来诊所

未来医院

**OMAHA Open PHR** 





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《Future Medicine》讲者;"开放医疗与健康联盟"-OMAHA 联盟发起者。

# 求 同道者 请 联系我