



# DIGITAL HEALTHCARE Patient Engagement and Global Care

July 17<sup>th</sup> 2018

#### **Maan Fares MD**

Vice Chairman Global Patient Services Cleveland Clinic





#### FOREIGN COUNTRIES REPRESENTED IN REGISTRATION.

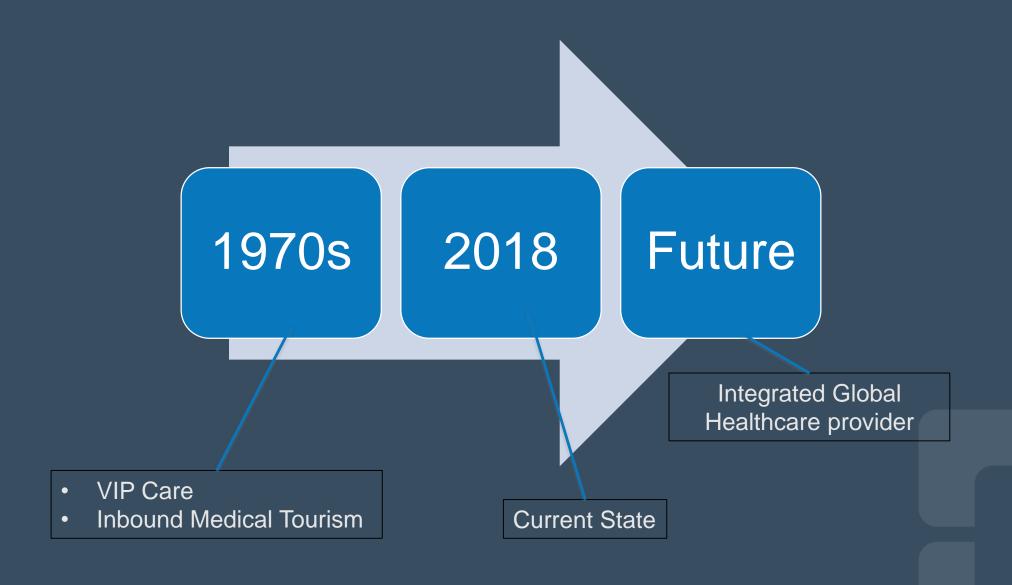
#### 1924

	1922	1923	1924
AfricaAustralia		7	1
Austria		3	4
Bahrein		_	. 1
Belgium		1	2
Canada	24	20	6
China	.4	3	2
Cuba		3 1 3	
Czechoslovakia	-	3	
Denmark England	1		2
France	1	6 2	2
Germany		ĩ	2
Holland	2	-	~
India	1	1	
Ireland	. 2		
Japan	5	2	1
Korea	- 6		1
Mexico	1		
New Zealand	3	2	
Norway	1	2	2
Persia	1		
Poland	ī		
Porto Rico	_	1	1
Scotland	3	2	1
South America	. 5	4	1 2
Sweden	7		
Switzerland	2	1	1
Tasmania	1		





#### Evolution of the Cleveland Clinic Model

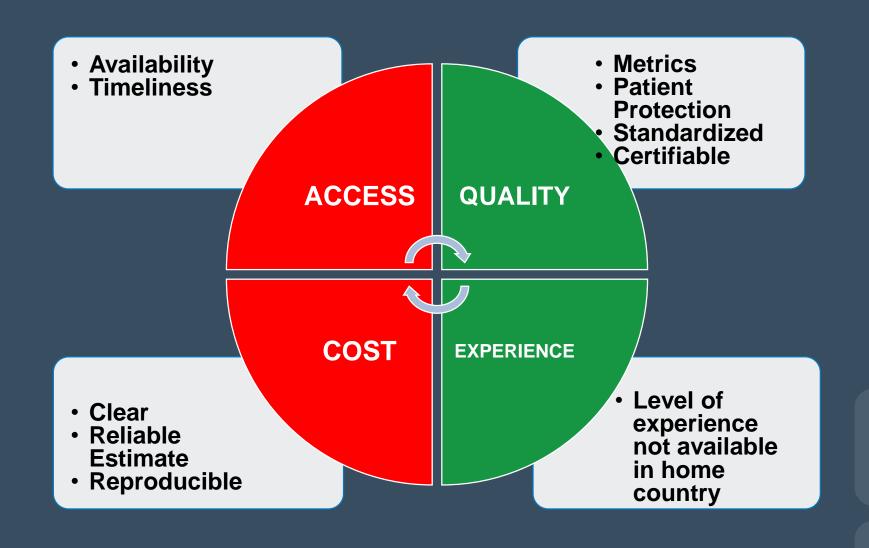


### Patients Traveling



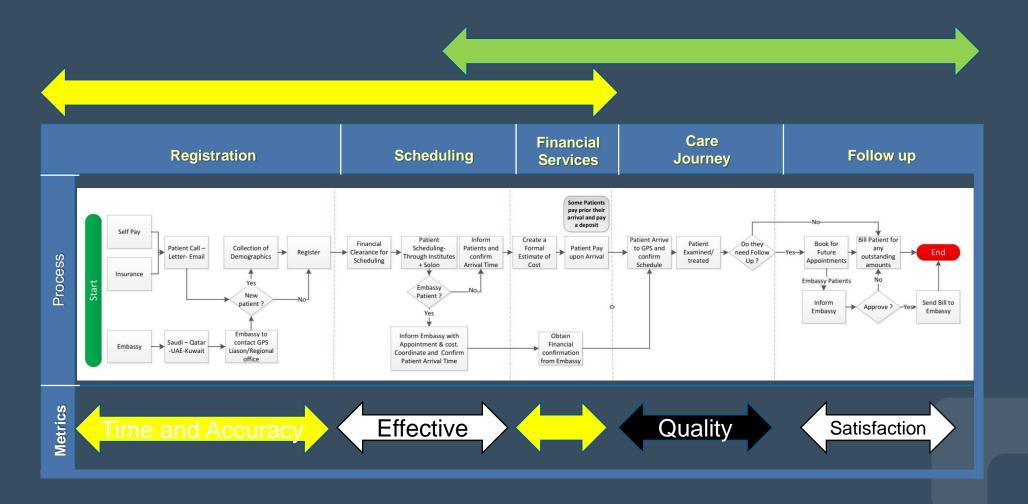
### **International Patients**

#### **Opportunities and Challenges**



### **Cleveland Clinic**

#### **GPS High Level Process Map**

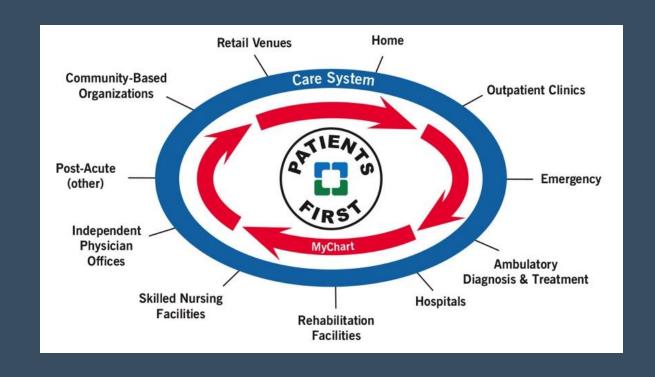


### Current Challenges

Definition Archiving **Digital Format** Instant Access Instant Access Cyber Security Financial Estimation Regulatory

### Meeting the Patients

# Patient Centered Integrated Health Care Model











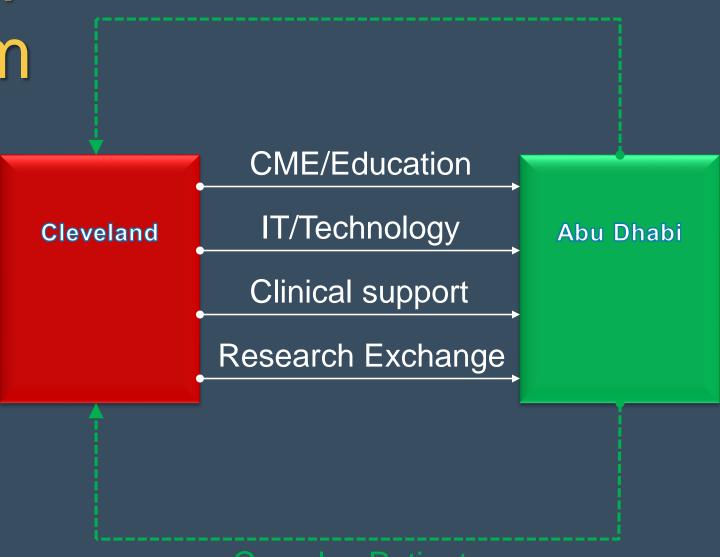
### **GLOBAL PATIENT SERVICES | CY2017**







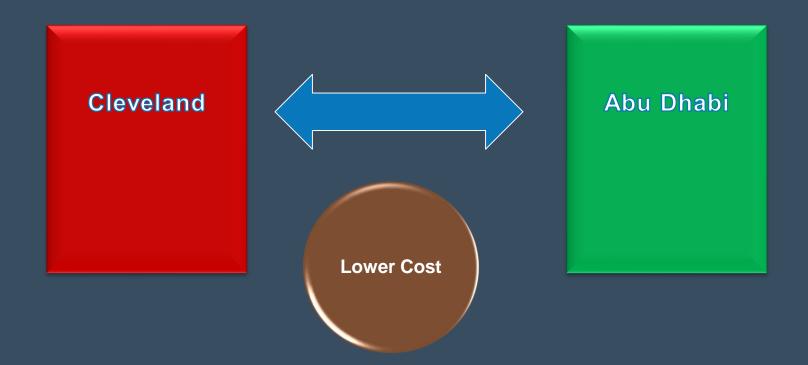
Global System



**Complex Patients** 

#### **CCAD** Experience

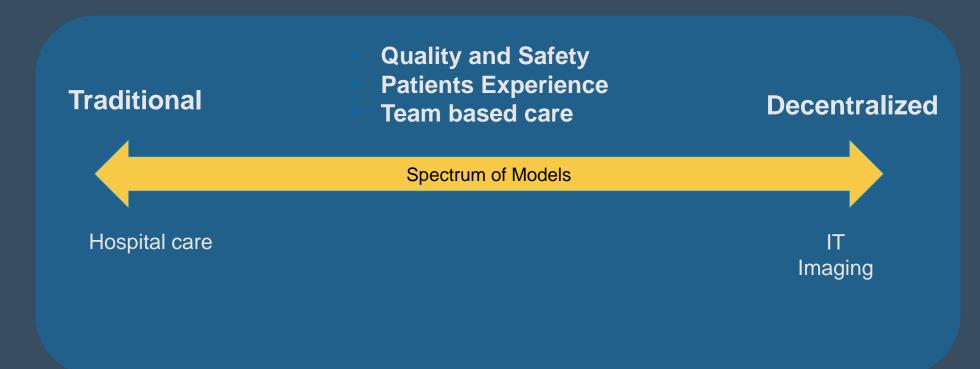
- US-trained physicians and care team (cultural sensitivity)
- Use of evidence-based clinical guidelines
- A satellite facility of world-renowned US hospital
- Care coordination after returning home



### The Future



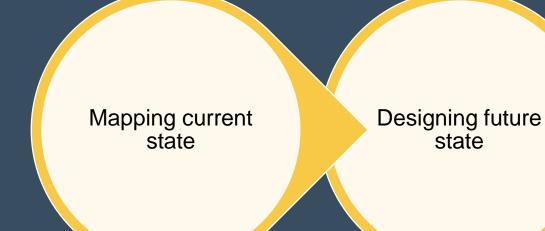
### Care Model Design



Assumptions: Team Based Preservation of Identity, Brand

#### DIGITIZATION EFFORTS IN PROGRESS

**TECHNOLOGY** 



Exploring tools/ technologies for decision support, automation, transparency

- -EPIC workflows
- -Salesforce.com
- -CyraCom
- -Executive/Ops Dashboards

### Distance Health

	Real Time "Synchronous"	Store and Forward "Asynchronous"	
Visits	Virtual Visits Live Audio / Visual connection with patient (branded Express Care on Line)	eVisits Structured online patient self-history and provider response  Chronic Disease  Management Collect patient home-biometric information	
Consults	Virtual Consults Live Audio / Visual connection to Care Team (Virtual Rounding)	MyConsults 2nd opinions requested by outside providers/patients  eConsults PCP to specialist	

# MyConsult Online 2nd Opinions

1,400+ medical/ surgical diagnoses

Access to **425**+ specialists

Patient report within 14 days

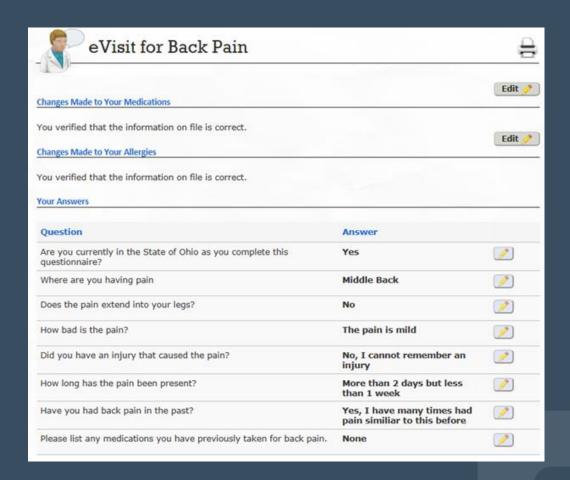
Delivered in 50 States, and over 115 Nations to date

#### **Most-requested diagnoses:**

- 1. Coronary artery disease
- 2. Atrial fibrillation
- 3. Prostate cancer
- 4. Urology Tumors
- 5. Mitral regurgitation
- 6. Breast cancer
- 7. Aortic stenosis
- 8. Epilepsy
- 9. Lumbar disc Herniation
- 10.Degenerative Spine

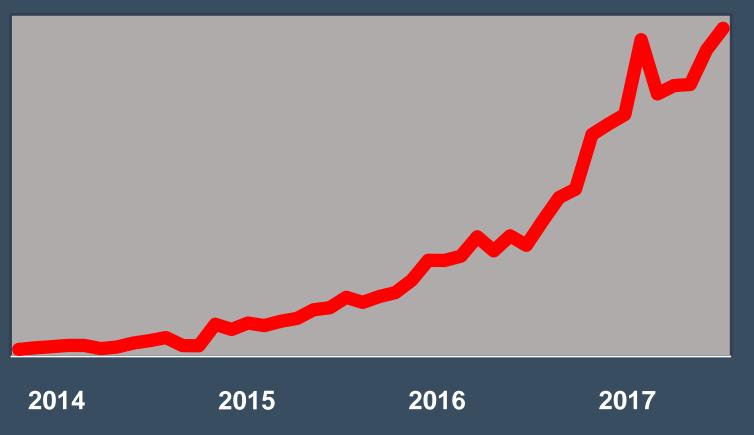
### eVisits

- Common acute problems
  - Back Pain, Sinus
     Symptoms, UTI,
     Cough, Vaginal Yeast
     Infections
- Chronic Care
  - Dermatology, POTS,
     Hypertension
- More under development



#### **Outpatient Virtual Visits**





### Providing An Exceptional Experience



## eHospital

The Hospital of the "Future"





Access to All Available Patient Information



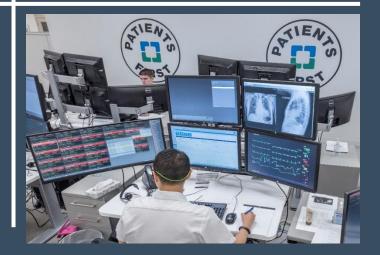












#### eHospital – Nocturnal elCU

- 300 beds
- Context sync'd EMR access
- Image and waveform view
- A/V conference
- Decision support
- Risk stratification

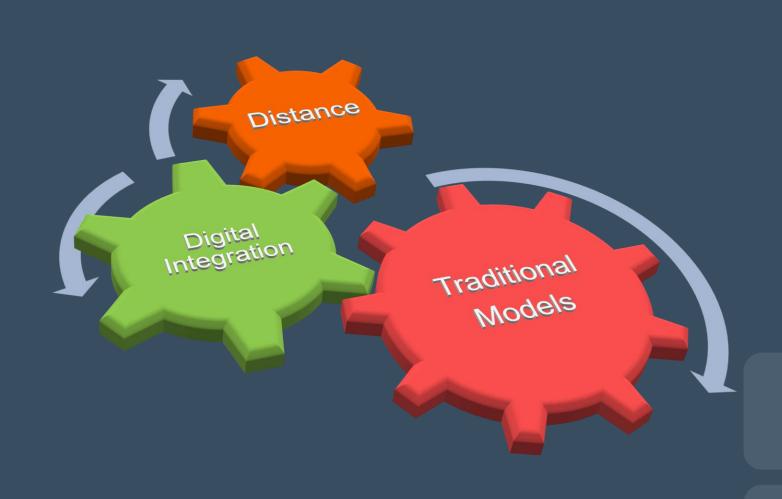


### International Challenges

- Regulatory/Legal
- Infrastructure Compatibility
- Cost
- Human Factors
- Time Zones
- Cultural/ Expectations



### The Aim





## Cleveland Clinic

Every life deserves world class care.