



Healthcare Information Systems

“An Integrated Healthcare Technology For Better Care”

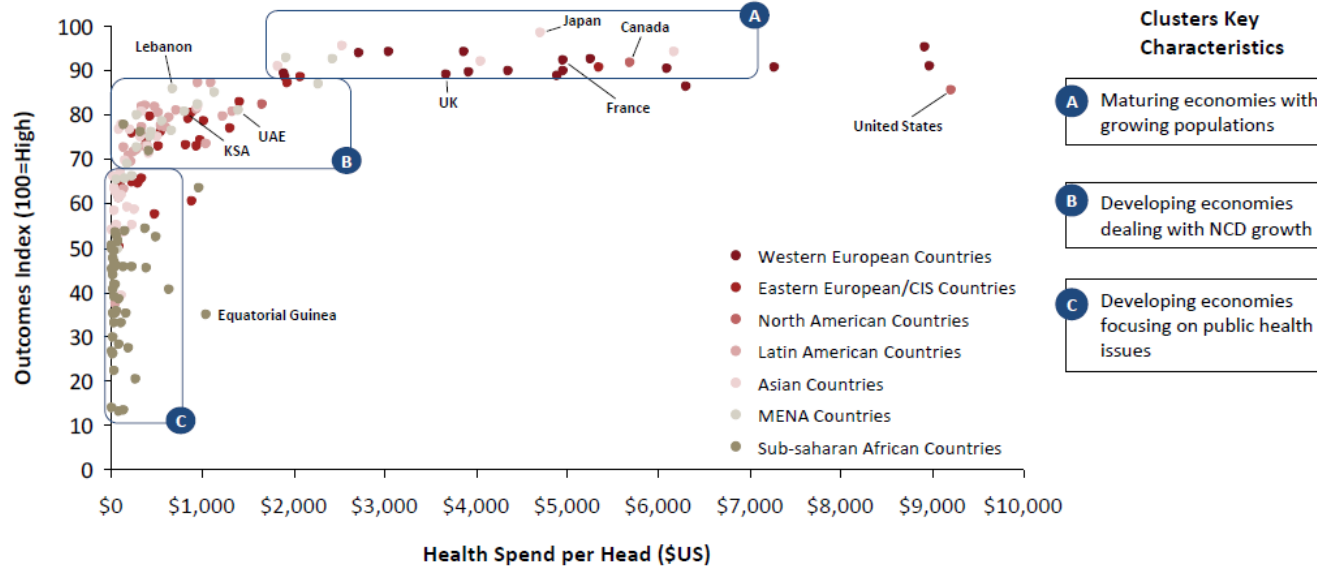
Corinne Aad Naba’ | Senior Project Manager

Agenda



- Healthcare Strategy and Analysis
- Healthcare vision and Strategy Plan
- Inter operability Platform at the National level
- Electronic Medical Records at the Hospital level

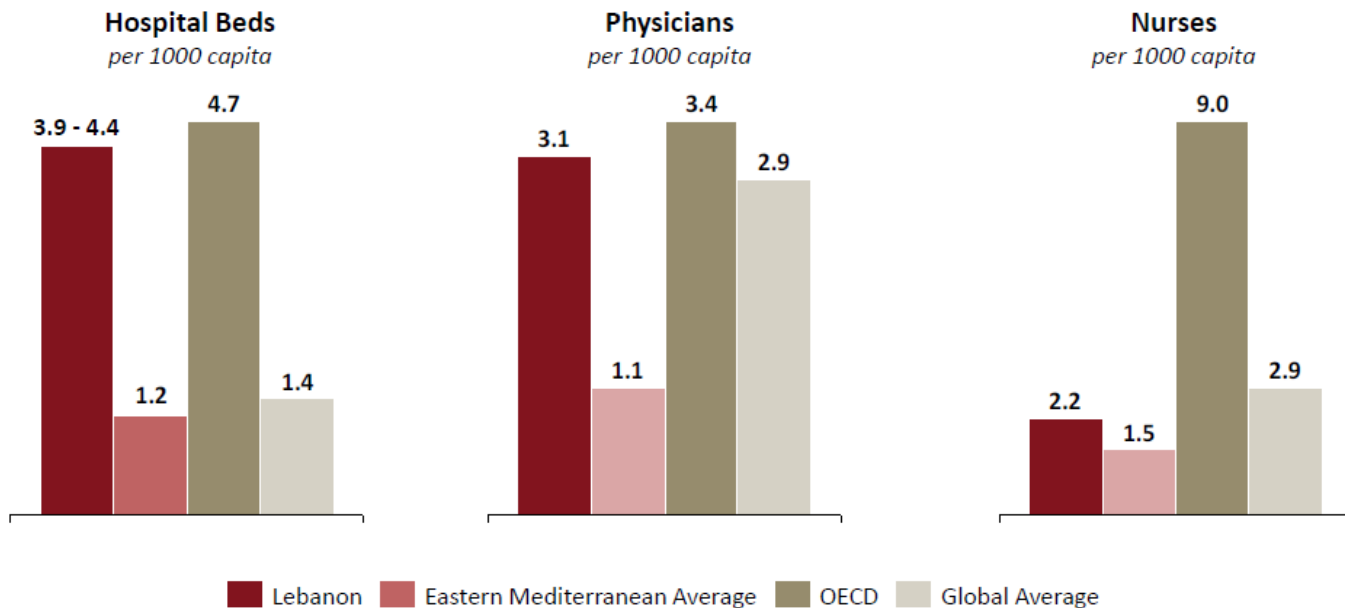
Healthcare Outcome Index – MENA Region



Source: The Economist Health Outcomes and Cost, The Global Competitiveness Report 2016-17, Strategy& Analysis

Lebanon sets the standard for Healthcare outcomes in the MENA region, boasting a high healthcare outcome index for a low spend per head, even against global peers

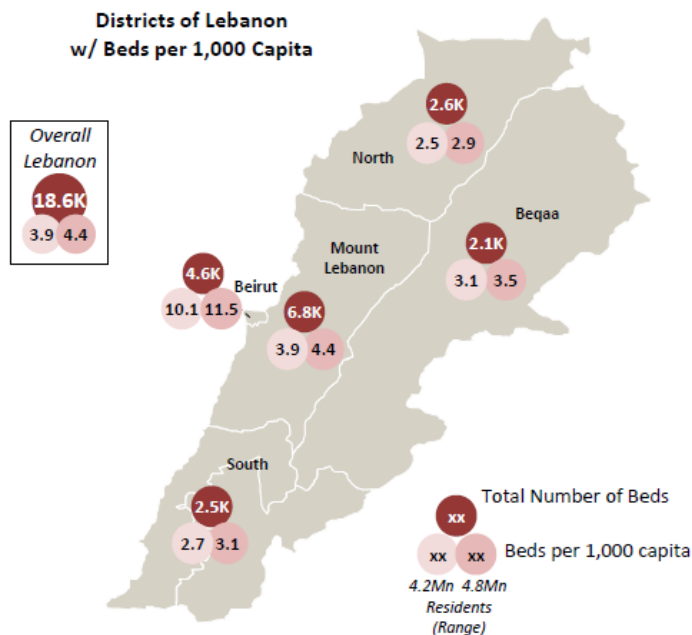
Strategy & Analysis



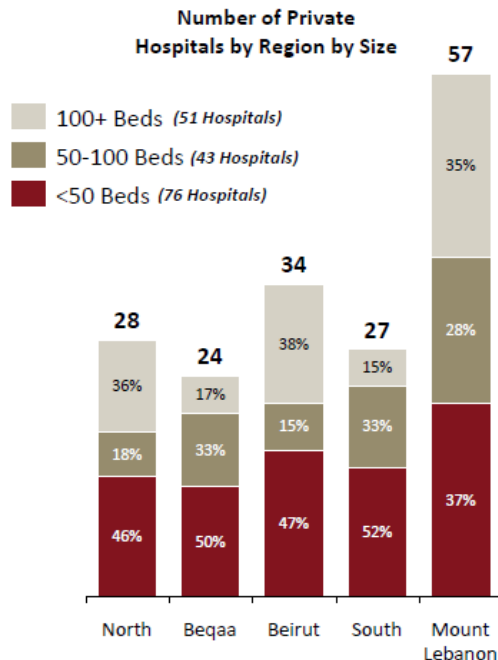
Compared to global and regional averages, Lebanon is well supplied in hospitals, beds and physicians, while still suffering – although less than the region from global shortage of nurses

Source: World Health Statistics, OECD, Strategy for National healthcare in Lebanon, Strategy& Analysis

Demographic Statistics



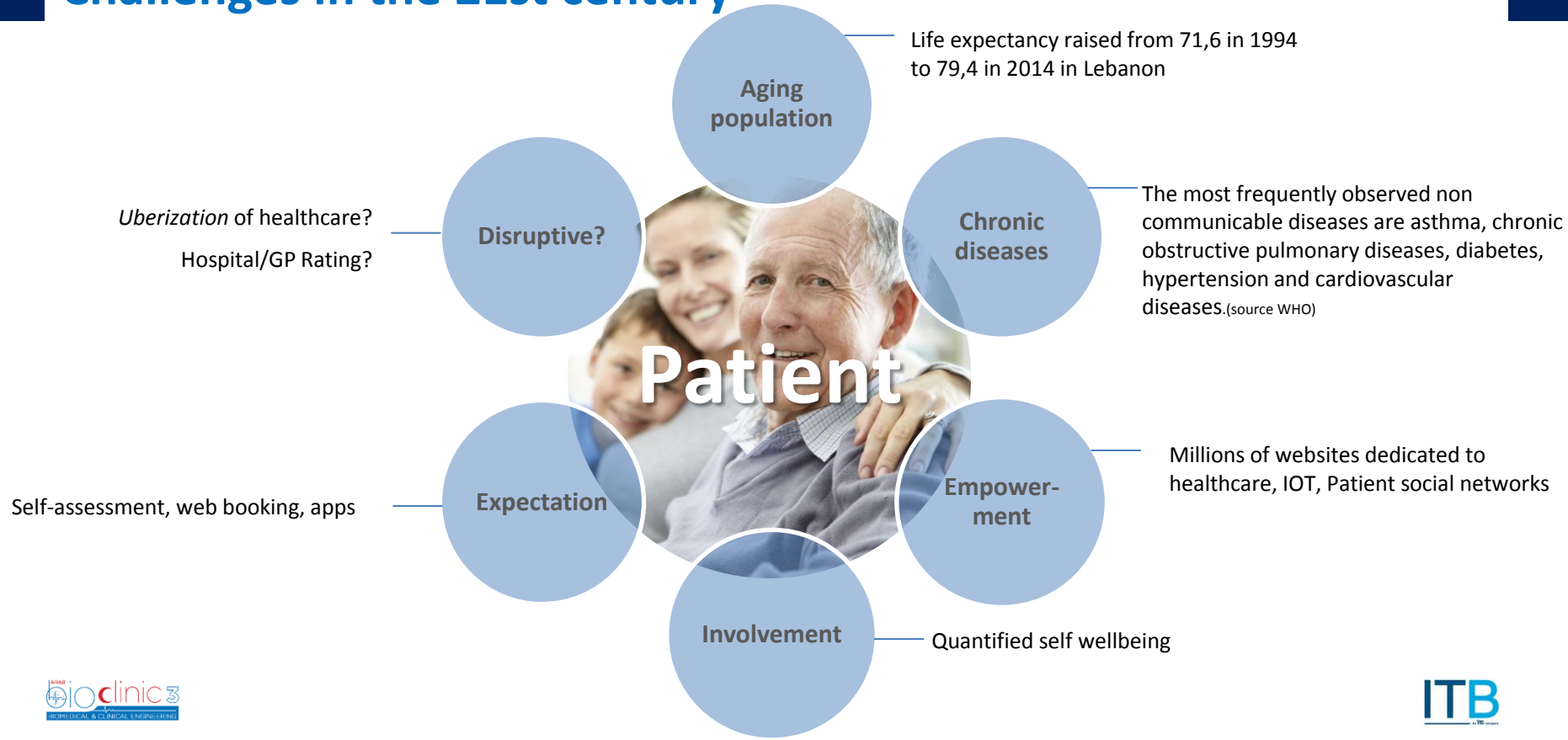
Source: CAS 2014 for demographic statistics, Syndicate of Lebanese Private Hospitals (for Bed count)



The Lebanese healthcare market stands at over 4 beds per 1000 capita, yet with different levels of supply across regions and a majority of relatively small size hospitals

Healthcare Sector Policies & Strategies |

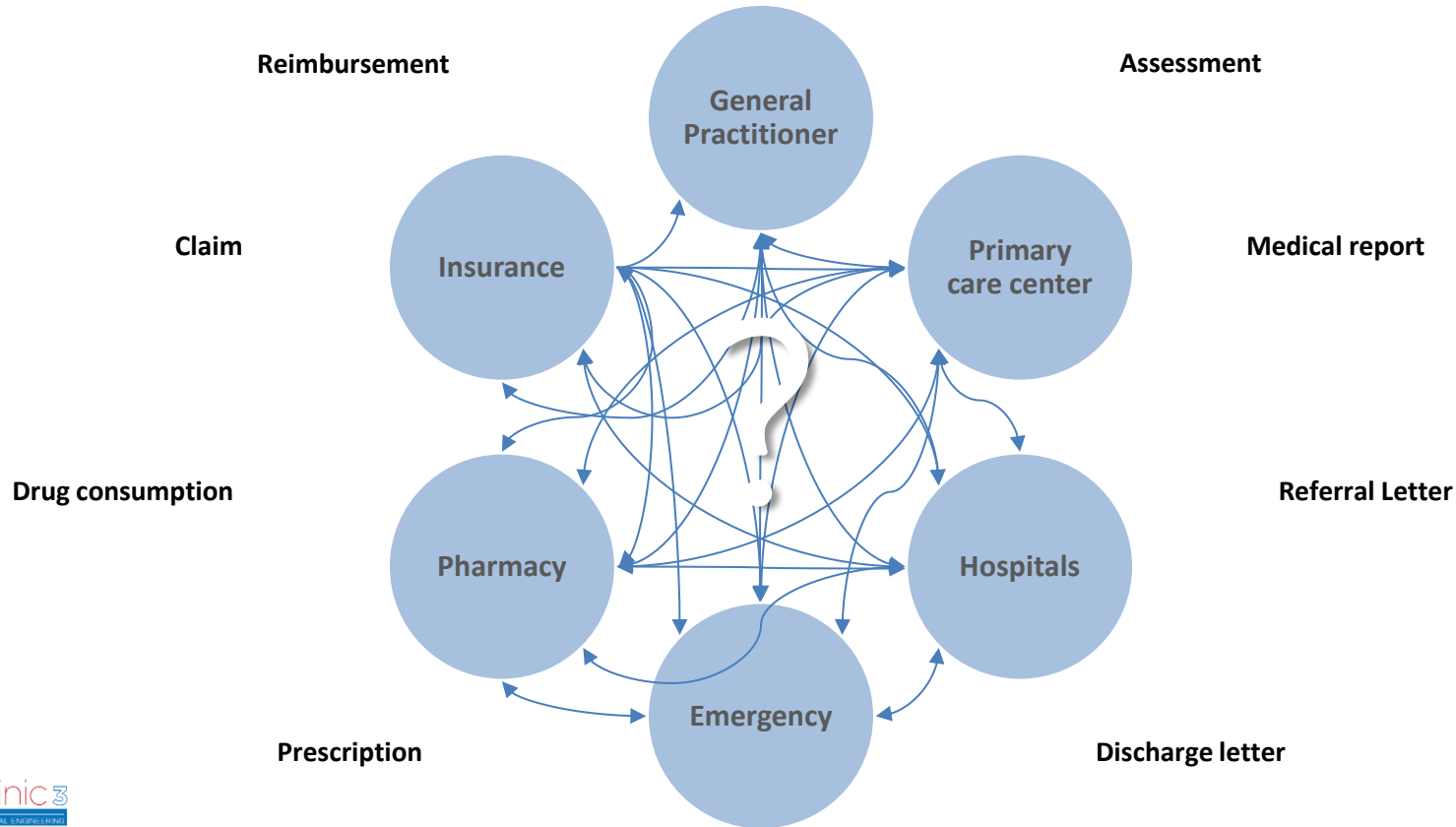
Challenges in the 21st century



Different Kinds of Facilities



Unified Working Process but where Is The Patient?



Healthcare Centers Vision & Strategic Plan

- **Provision of the highest standards of patient centered care**
- Recruitment of highly specialized staff
- Establishment of strategic partnership and collaboration
- Expansion of facility/ capacity building
- Support/ensure patient access to care



How To Make This Efficient?

Share information

- Medical information
- Insurance information
- Demographic information

Route information

- The right information
- To the right person
- At the right time

Focus on use case

- Dedicated clinical pathway
- Step by step approach

Identify every stakeholder

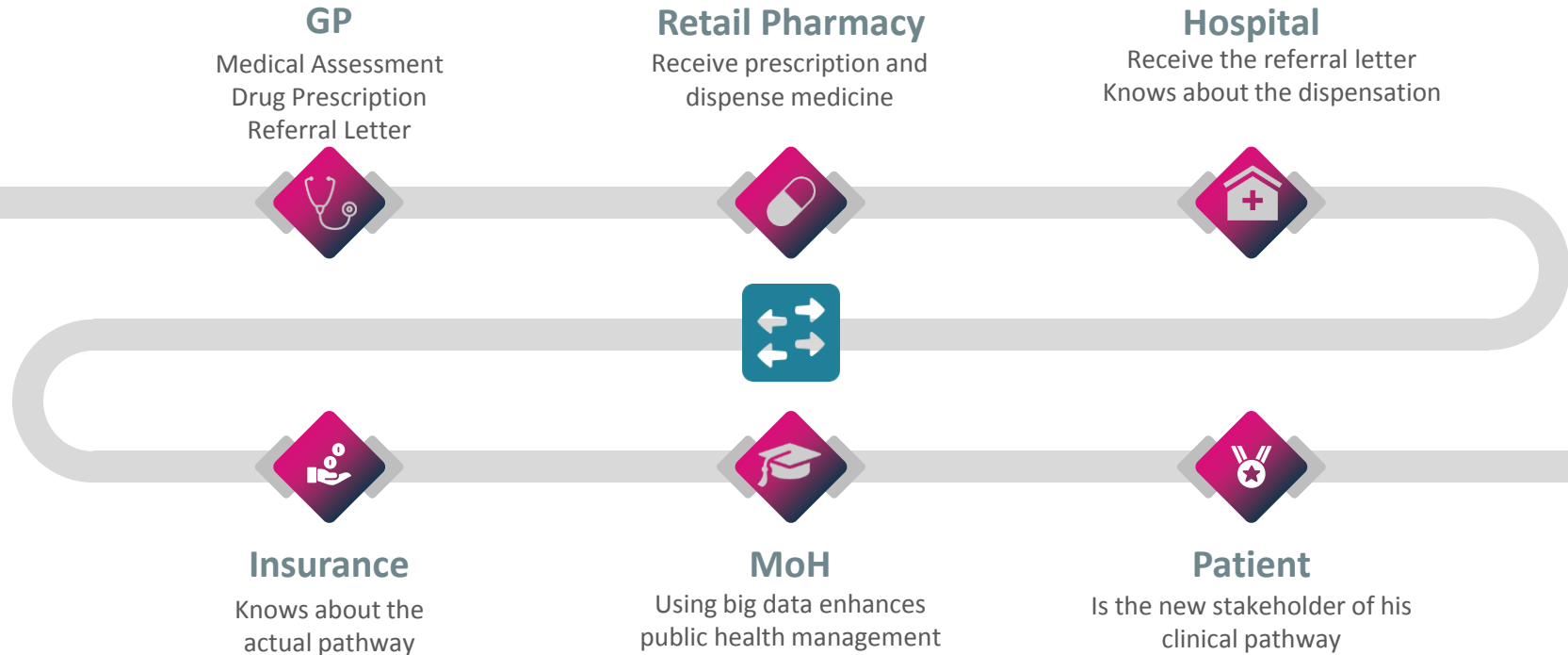
- Don't forget anyone



How to do it?

Use an inter operability
Platform at the National
Level

Organizing The Clinical Pathway



Benefits

Citizen

- Access an abstract of his medical record regardless of the hospital he went to
- Added value services (online booking, online payment...)

Insurance

- Comprehensive vision of the clinical pathway of the patient
- Better coverage offering

Primary care

- Considered as a stakeholder of the clinical pathway
- Can easily access the comprehensive patient history

Research center

- Access detailed anonymous information (big data)

Ministry of Health

- Can set up a Public health policy using big data
- Social Security
- Better governance of public health facilities



How to do it?

Use EMR at the Hospital Level

EMR Initiative

In the 1960s, the development of the problem oriented medical record by Larry Weed introduced the idea of using electronic methods of recording patient information.

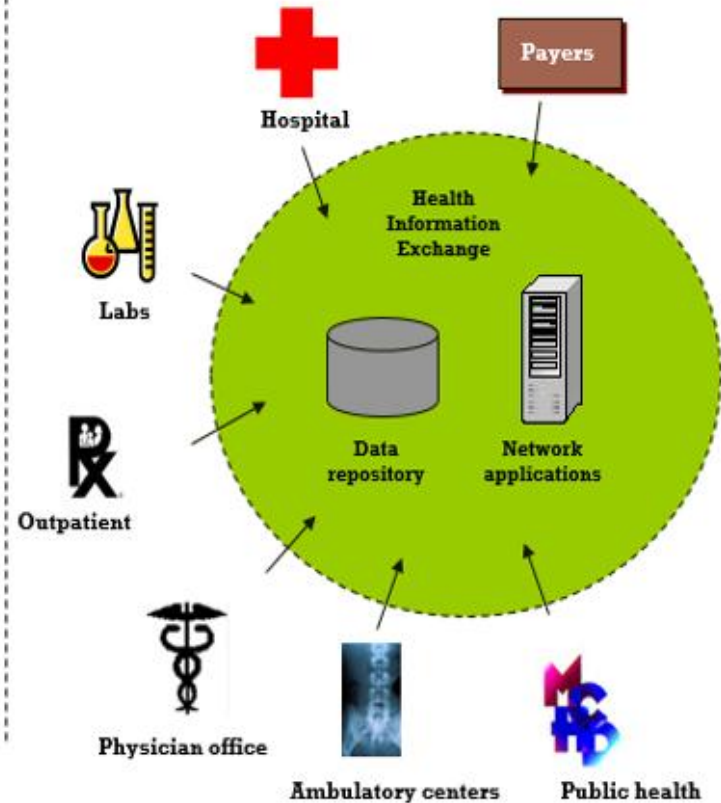
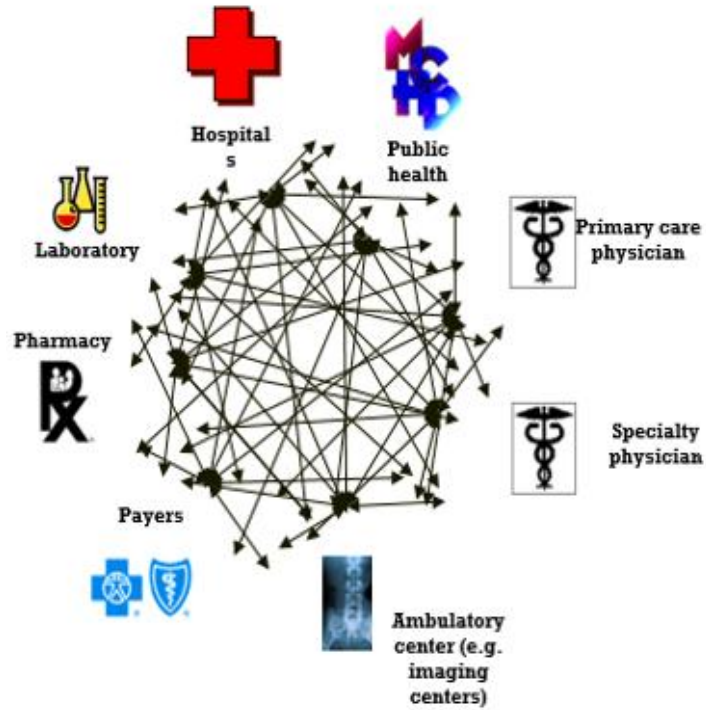
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1960



2017

EMR Needs In Hospitals



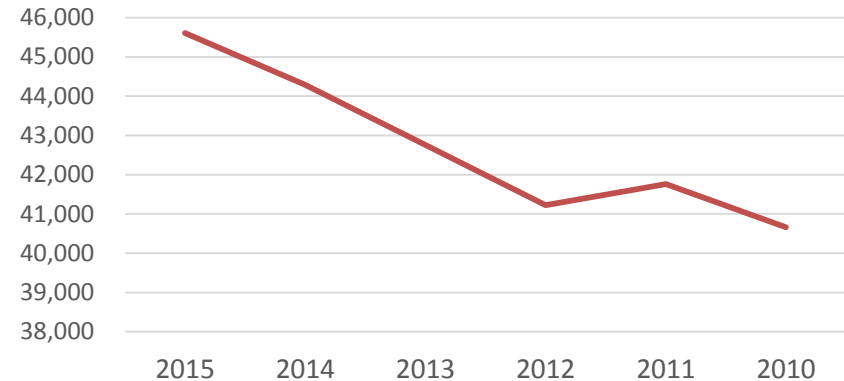
Healthcare Quality & Safety (1/2)

- The estimated amounts spent on hospitalization during 2015 would reach 95 trillion Lebanese lira*.

**Source: Cooperative of Government Employees*

- Despite many efforts to control the cost of healthcare, the annual rate of increase has almost always exceeded the overall rate of inflation and has often soared into double digits.

Registered hospitalization requests during
period 2010-2015
Number

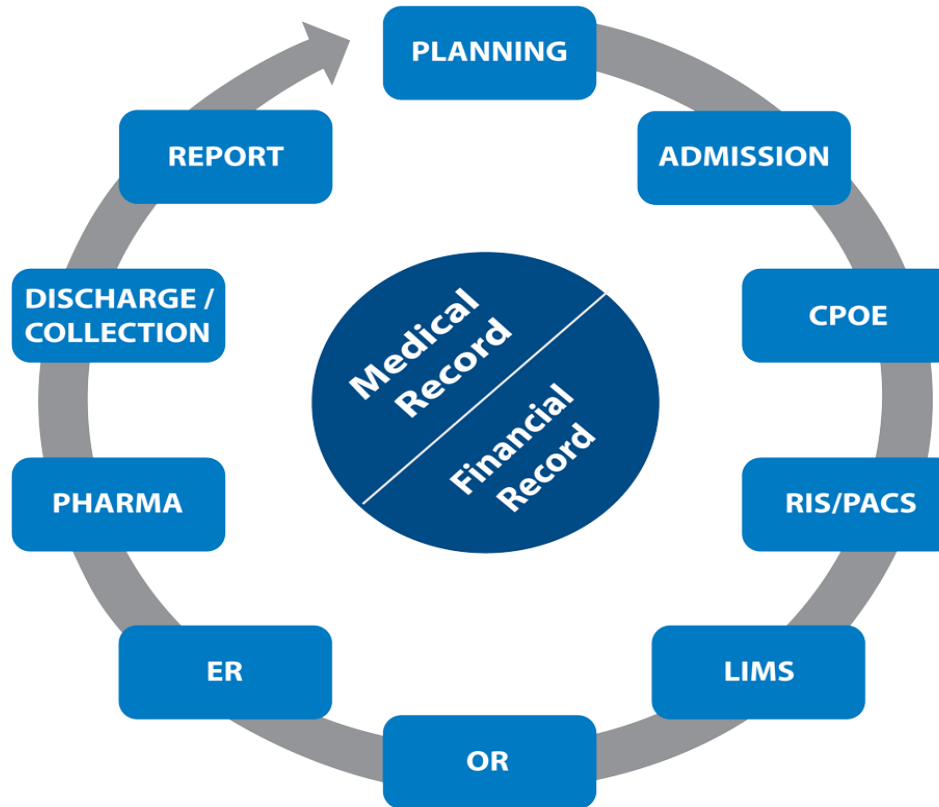


Healthcare Quality & Safety (2/2)

- Medical errors due to :
 - Calculation errors
 - Handwriting
- Quality health care :
 - Volume of paper: up to 20 different patient registers for each facility
- Onerous data reporting: nurses spend 4-6 days per month aggregating data
- Late reporting
- Inaccurate data
- Little information flows back to the medical providers : difficult to identify defaulters or high risk patients



EMR & The Patient Journey (1/2)



EMR & The Patient Journey (2/2)

- Reduce transcription, re-filling and storage cost
- Save time and cost through eliminating redundant diagnostic testing
- Enables healthcare professionals to communicate and track patients data and journey cost



& legislation

Health care services
of care
seeking funds

-
- & legislation
- Health care services
of care
seeking funds

EMR Perspectives

- Pursue national support for the promotion of HIS system for better patient care and safety
- Adopt a unique patient identifier
- Benefits from the international experience during the last decade to start from a high level; adopt their expertise and adapt it to the local needs



Effect of New Technology on Clinical Outcome

- **Quality & Safety**
 - Standardized protocols, meeting accreditation requirements
 - Reducing errors, medication reconciliations, common record for all health providers, alerts for services and follow up
- **Efficiency & Effectiveness**
 - Reduction of waste, single data entry, Lean processes implementation
 - Evidence based protocols, decision support
- **Productivity & Compliance**
 - Compliance with the Ad Hoc report of the BOT, increased physician productivity
- **Education & Research**
 - Generate & make available data for clinical research and student training





For more info

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