COMP2332:

Enterprise Healthcare Business Process Modelling

Business Process Management Introduction

Time: Tuesday+ Thursday: 12:50-14:05 Location: Masri110

Section: 1



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Business Process Management

- Introduction and Core Concepts
- Motivation
- Core Concepts
- Components
- Life cycle



Healthcare: Issues

- Increasing number of deaths from diseases
- Challenges due to demographic changes
- Longevity in Life Expectancy
- Prevalence of Chronic diseases
- Medical Errors



Healthcare: Human Errors

Human Errors:

- 44,000 to 98,000 die in US annually from medical errors
 - at 44,000, would rank as 8th leading cause of death
 - car accidents: 43,458
 - breast cancer: 42,297
 - AIDS: 16,516
 - 7000 deaths from medication errors alone

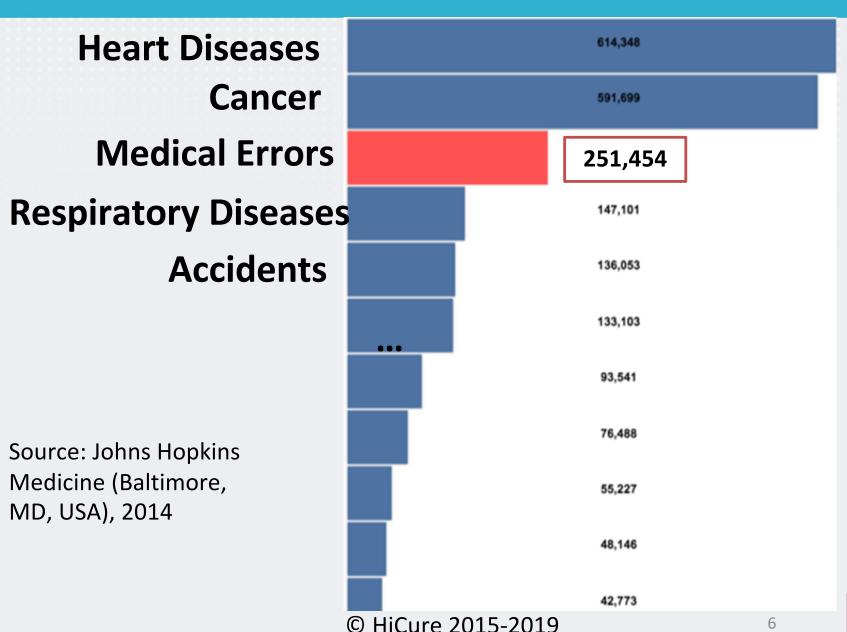
(IOM Report, <u>1999</u>)

Medication errors: in the US, 80,000 people died in 2004. (i.e. 8th cause of death)

(IOM Report, 2004)



Deaths Due to Disease



The Demography is Changing

Demographic projection Demographic change is transforming the World and EU:

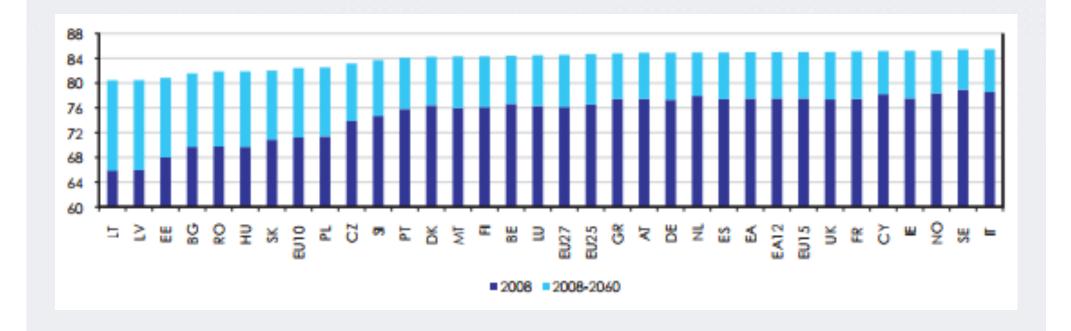
- 1. longer lives
- 2. low fertility and
- 3. inward migration

are its key aspects.

The extent and speed of population ageing depend on future trends in these three factors.



Life Expectancy in Europe

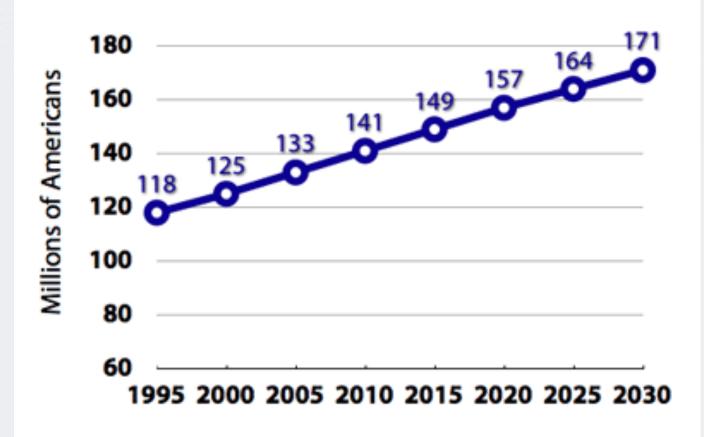


Source: Eurostat



Implications

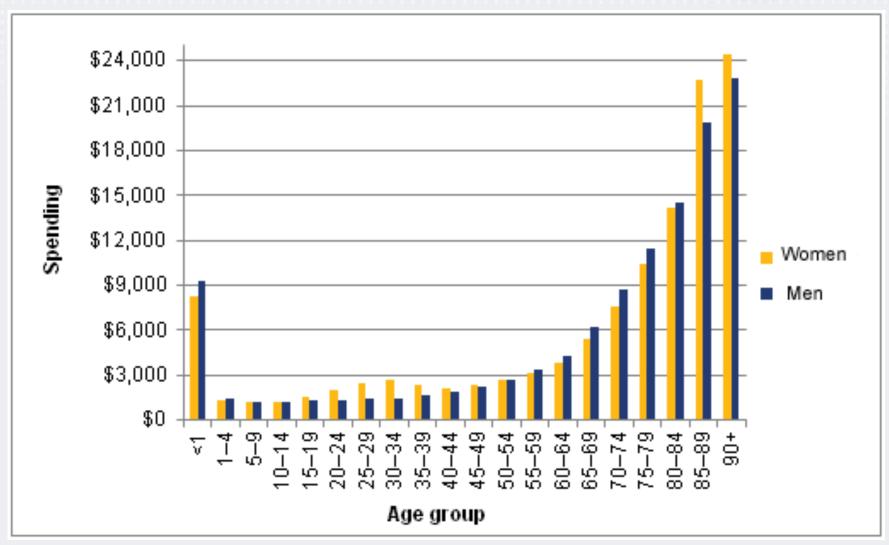
Prevalence of Chronic Disease in the U.S.



Source: Wu, Shin-Yi et al. 2000. Projection of Chronic Illness Prevalence and Cost Inflation. RAND Corporation.



The Healthcare Costs by age group

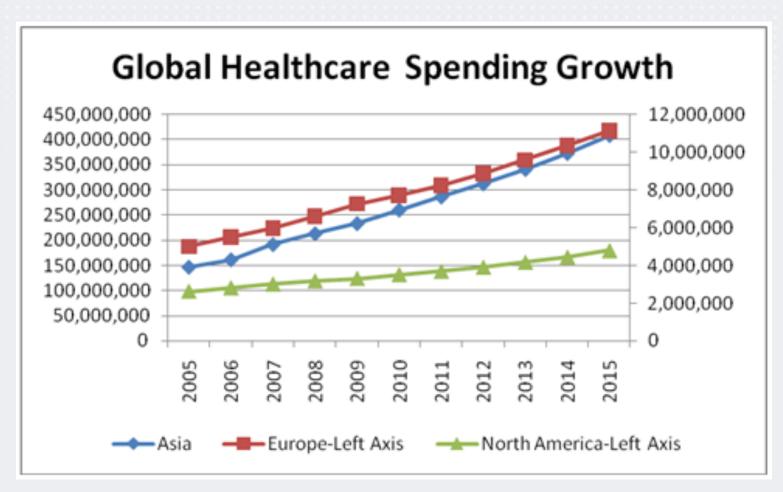


Source: Consumer Driven Healthcare – How it stands for the Payers? Available in http://www.nalashaa.com/consumer-driven-healthcare-stands-payers/

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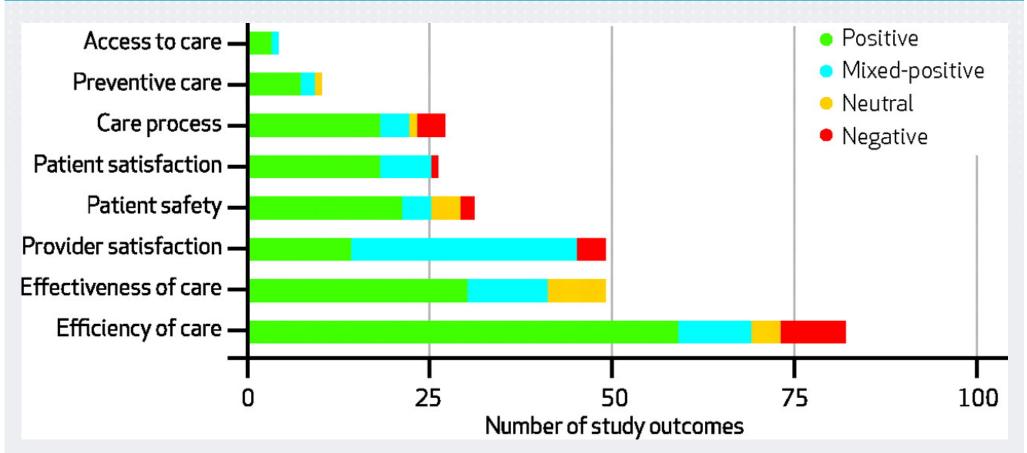
Global Healthcare Costs



Source: IHS Global Insight Study Shows Slow Growth for European Drug Sales through 2015



Healthcare: Areas for Improvements



Evaluations Of Outcome Measures Of Health Information Technology, By Type And Rating.

Melinda Beeuwkes Buntin et al. Health Aff 2011;30:464-471

