

European Winter School of Internal Medicine **Riga, Latvia** 25-31 January 2015



### New Strategies for a Hospital Integrated Care

The role of internists for bridging Inpatient and Outpatient Worlds



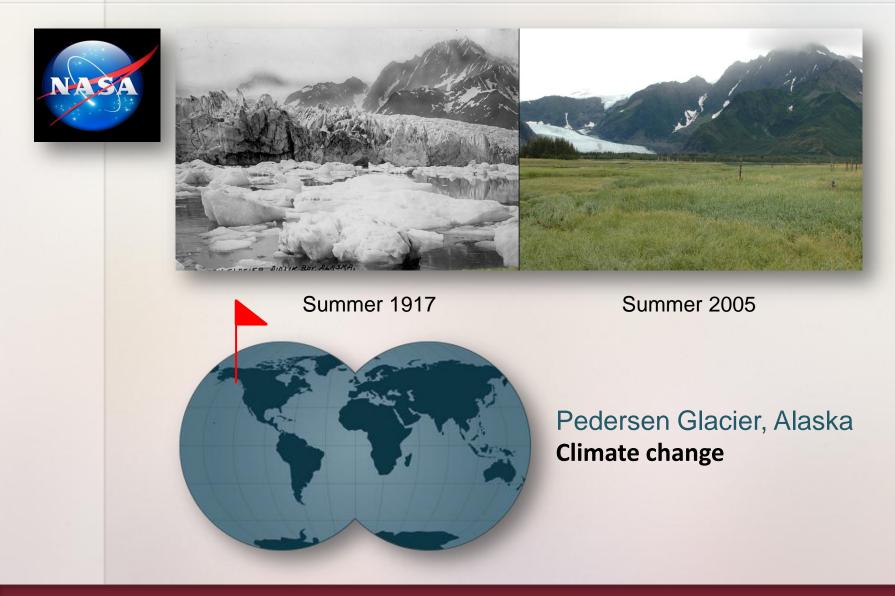
#### Xavier Corbella, MD, PhD, MBA

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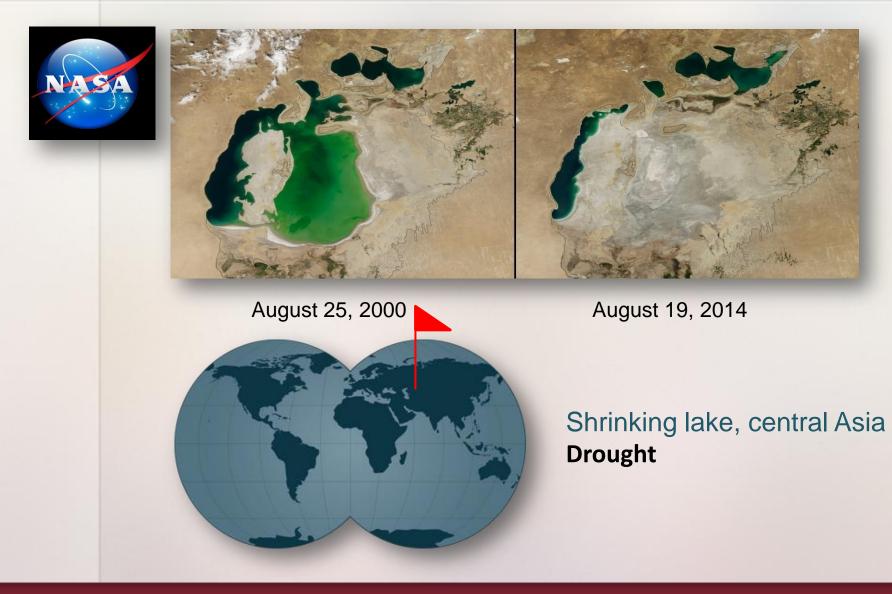
















new changes... new problems... new needs... new challenges... to face and solve !

Overpopulation Poverty Urban growth Deforestation Pollution Climate change Pandemics ...

. . .

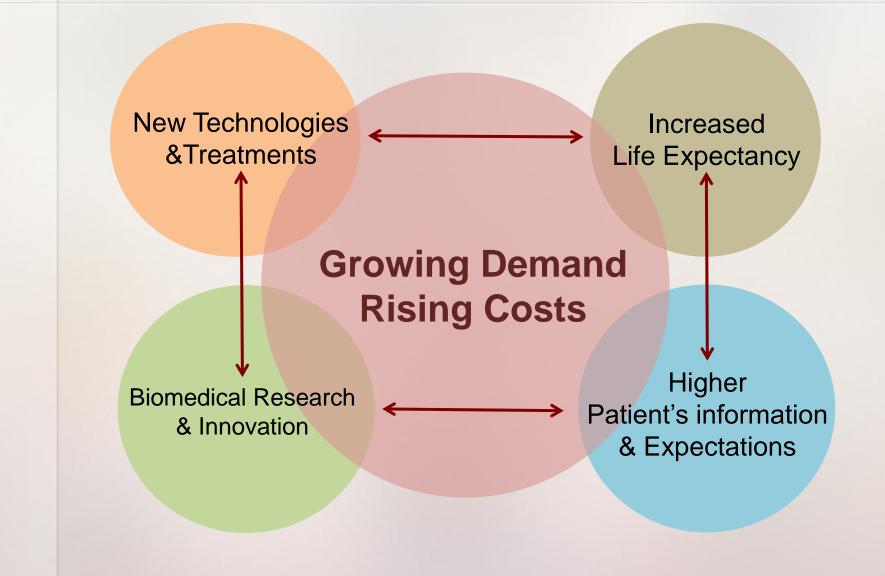




new changes... new problems... new needs... new challenges... to face and solve !

Aging Chronicity Multi-morbidity Social changes New diseases Role of patients Higher information More expectations Growing demand Rising costs







## Patient Needs Rising Costs

For years, as long as payment for health care services covered the costs, hospitals responded to increasing demands by adding more beds, more buildings, and more staff









# Patient Needs Rising Costs

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# The Global Economic Cris<sup>7</sup>

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## Limited Financial Resources

In the past decade, the global financial crisis limited hospital resources, and administrators have required to reduce beds and staff for balancing the bottom line



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#### **Hospital Restructuring**

**Reducing Hospital Beds**: Traditional, Expensive  $\rightarrow \rightarrow$  Scarce





#### **Hospital Restructuring**

After reducing beds, most hospitals have begun to operate <u>at or above capacity</u>, with a <u>dysfunctional bed "competition"</u> between <u>emergency</u> and <u>scheduled</u> inpatient admissions.

Physicians face daily with "**boarded patients**" waiting for a free bed in the ED, lack of ICU beds, theatre cancellations, and hospital diversions





#### **Dysfunctional Inpatient Bed Competition**







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# Access Block

University affiliated











OF THE NATIONAL ACADEMIES

"Lack of access to inpatient beds is the main factor for hospital crowding" (US GAO 2003, 2009 and IOM 2006)





In 2006, the Institute of Medicine reported that when hospitals are full, hospital executives might prefer scheduled to emergency patients, since emergency admissions tend to be for medical conditions, which are considered less profitable than is elective surgery

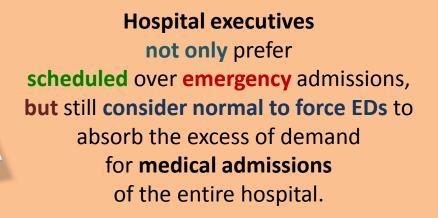




OF THE NATIONAL ACADEMIES

"Lack of access to inpatient beds is the main factor for hospital crowding" (US GAO 2003, 2009 and IOM 2006)







## **Inpatient Access Block**

Waits, cancellations, and diversions **negatively affect** patient **safety and quality** of care.

Physicians regard this phenomenon with enormous concern and pessimism.



#### ... our efforts largely failed during the 1990's



In the late 90's, one decade before the Global Financial Crisis...

... our daily hospital routine was
 → how to face the lack of free
 inpatient beds, → how to avoid
 cancellations in elective surgery,
 and → how to get the "boarding"
 of ED admitted patients upstairs



#### ... our efforts largely failed during the 1990's

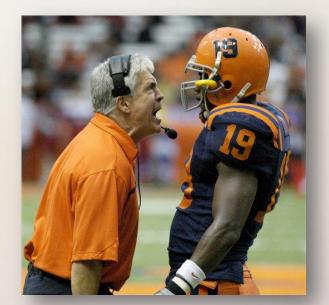
monthly number of patients waiting for a free inpatient bed in the ED at 8.00 am





#### clinicians and administrators in collaboration

In 2001, a new hospital board assumed the executive management, asking medical managers and hospitalists, collectively, to implement **change in our organizational procedures...** 



#### **Process**

- 1 Something wrong was doing
- 2 Literature review
- 3 New approach
- 4 Board Commitment
- 5 Multidisciplinary taskforce
- 6 Multifaceted intervention
- 7 Communication strategy
- 8 Implementation
- 9 Resource & Financial support
- 10 Follow-up & Evaluation

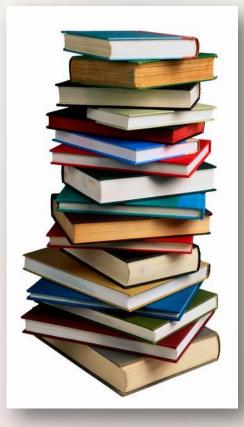


#### clinicians and administrators in collaboration

## **Literature Review**

"Inpatient Access Block" is a well known phenomenon in many hospitals worldwide...

Several experiences have demonstrated that inpatient access block is **not only** a **"financial resource problem"** but that it often reflects a larger failure of **hospital-wide operational processes** 





#### clinicians and administrators in collaboration

## Surgeons

#### Surgeons

have been more willing than internists to introduce inpatient care alternatives in their clinical practice

During the past 30 years, "Major Ambulatory Surgery" has grown steadily and has become a totally accepted modality of delivery.



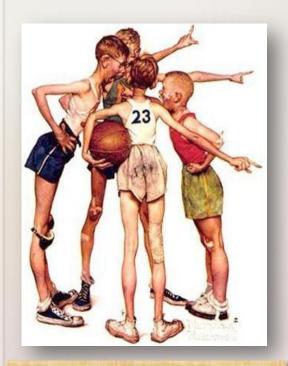
#### Internists

may also lead a similar **change** in medical patients, considering some inpatient care alternatives to avoid unnecessary hospital admissions

Internists



### **New Approach**



Multidisciplinary Taskforce

#### **Our Aim**

To guarantee free hospital beds for inpatient admission  $\rightarrow$  to eliminate the "inpatient boarding" in the ED

 $\rightarrow$  to increase hospital throughput

#### **Our Strategy**

To Relieve Pressure on Hospital Bed Availability

- → by Reducing Avoidable Inpatient Admissions
- → by Reducing Unnecessary Hospital Stays

#### **Our Action**

To Change our Traditional Clinical Practice

→ by using Alternatives to Standard Hospitalization and we named this "Major Ambulatory Medicine"

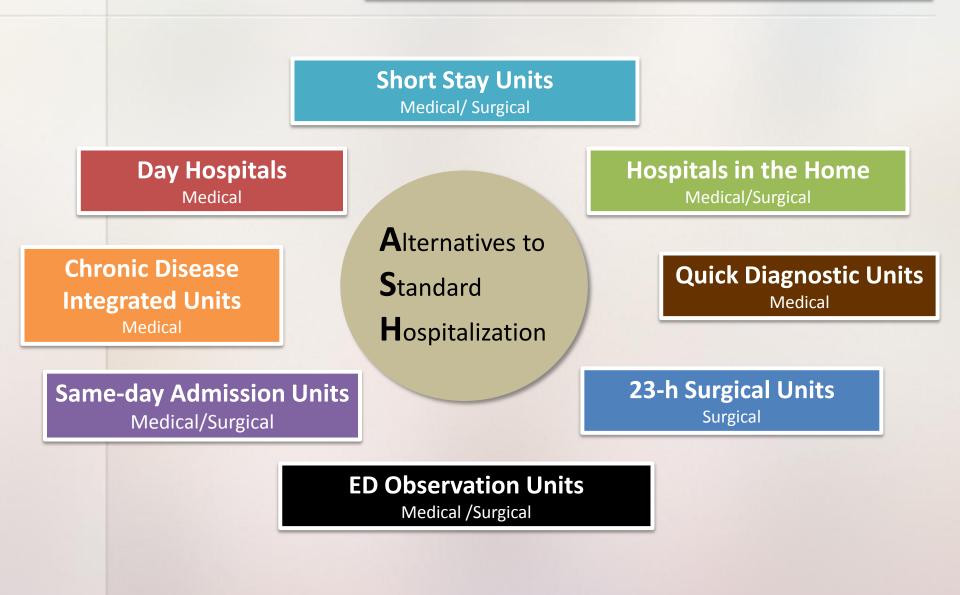


## "Major Ambulatory Medicine" \*

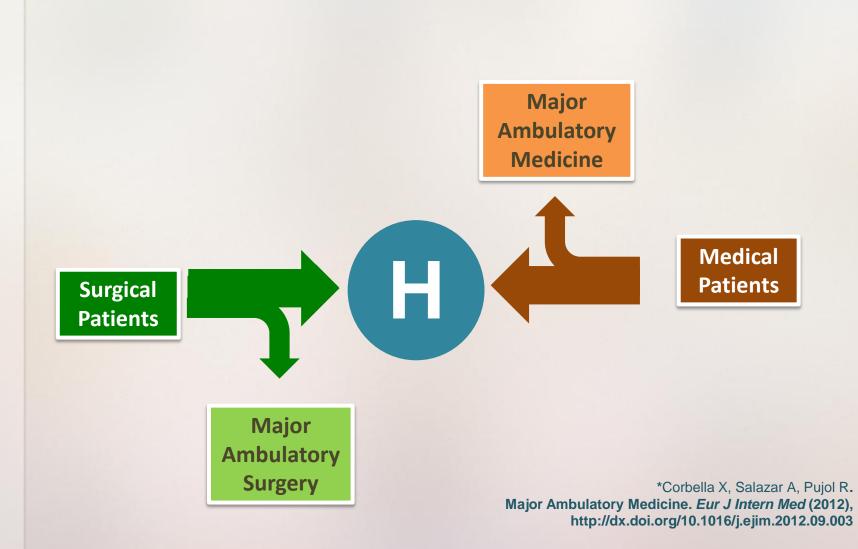
\* Corbella X, Salazar A, Pujol R. Major Ambulatory Medicine. *Eur J Intern Med* (2012), http://dx.doi.org/10.1016/j.ejim.2012.09.003



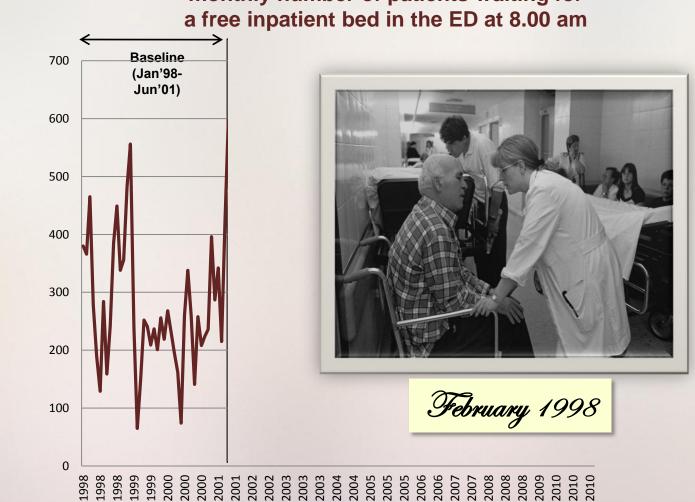






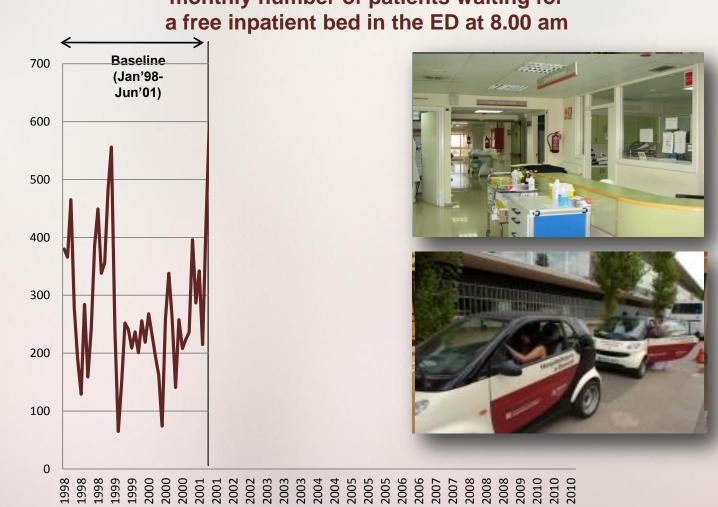


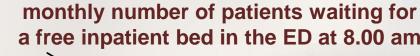




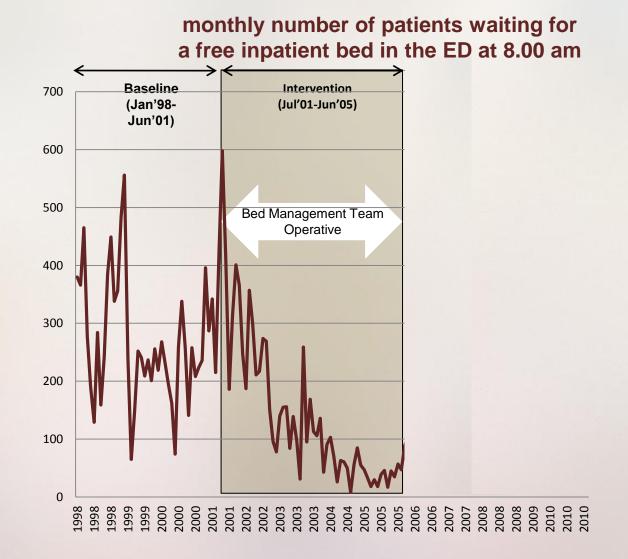
monthly number of patients waiting for



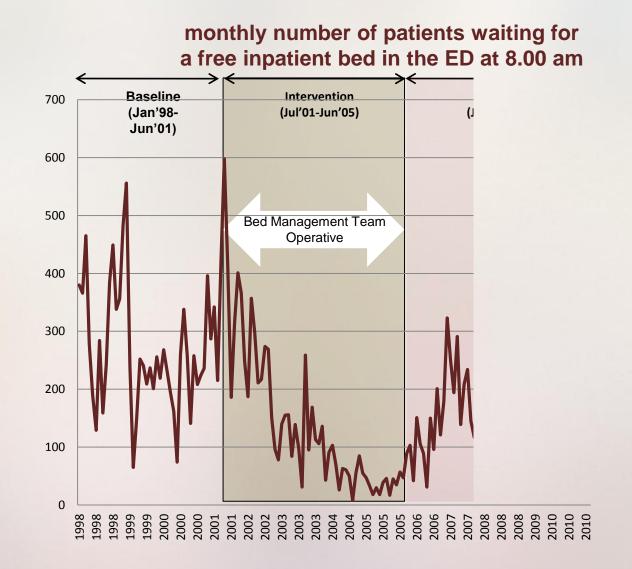




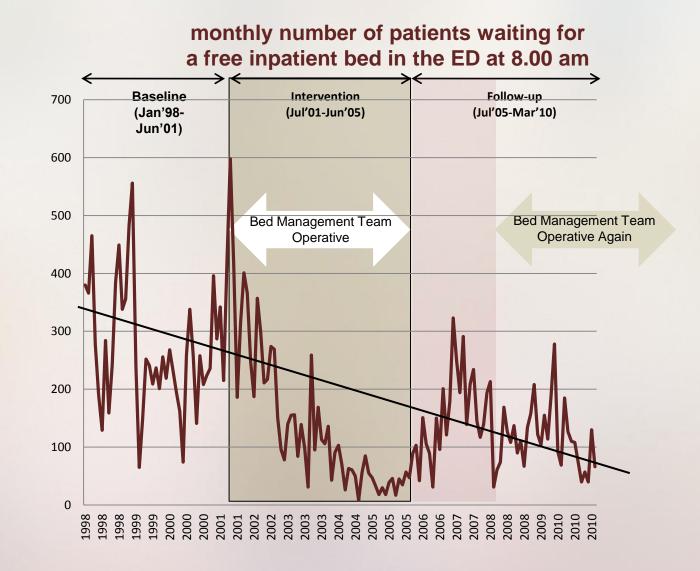














www.sciedu.ca/jha

Journal of Hospital Administration, 2013, Vol. 2, No. 2

#### ORIGINAL ARTICLE

### Alternatives to conventional hospitalization for improving lack of access to inpatient beds: A 12-year cross-sectional analysis

Xavier Corbella, Berta Ortiga, Antoni Juan, Nuria Ortega, Carmen Gomez-Vaquero, Cristina Capdevila, Ignasi Bardes, Gilberto Alonso, Carles Ferre, Maria Soler, Rafael Mañez, Eduardo Jaurrieta, Ramon Pujol, Albert Salazar

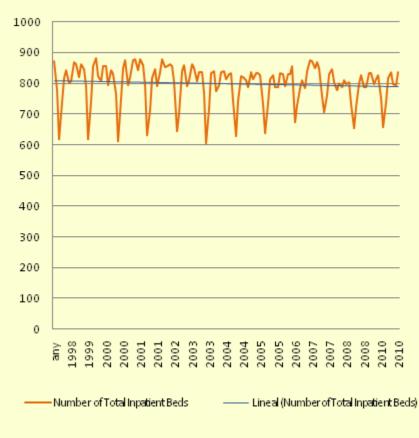
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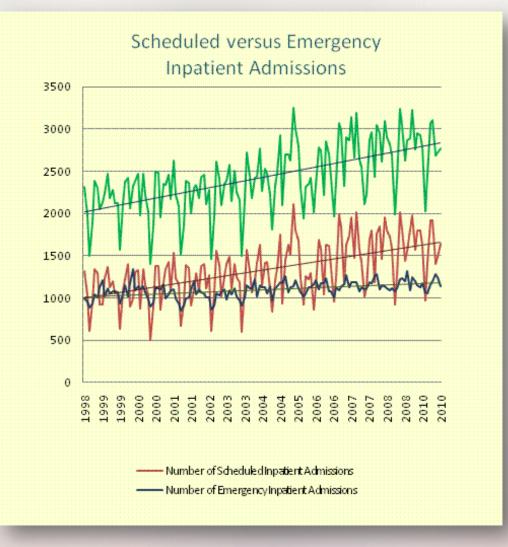
 DOI: 10.5430/jha.v2n2p9
 URL: http://dx.doi.org/10.5430/jha.v2n2p9
 Online Published: December 17, 2012



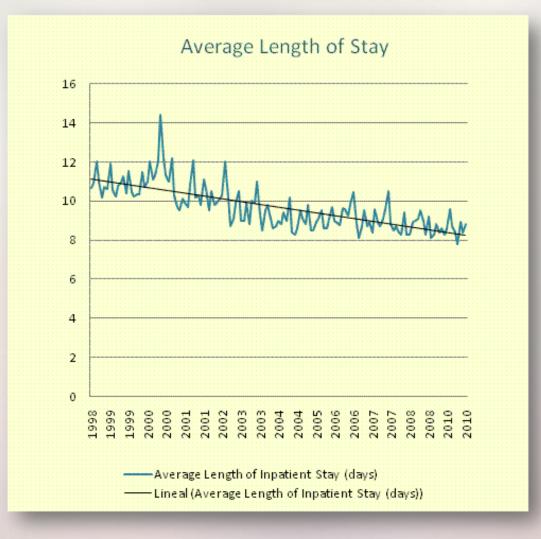


Number of Total Inpatient Beds







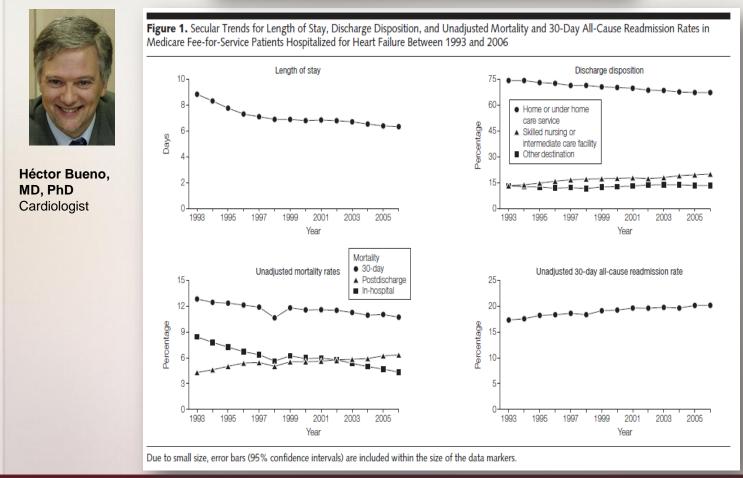






#### Trends in Length of Stay and Short-term Outcomes Among Medicare Patients Hospitalized for Heart Failure, 1993-2006

JAMA. 2010;303(21):2141-2147











#### **The Revolving Door:** A Report on U.S. Hospital Readmissions

An Analysis of Medicare Data by the Dartmouth Atlas Project Stories From Patients and Health Care Providers by PerryUndem Research & Communication

February 2013

Robert Wood Johnson Foundation

#### **The Revolving Door:** A Report on U.S. Hospital Readmissions

THE DARTMOUTH INSTITUTE FOR HEALTH POLICY & CLINICAL PRACTICE

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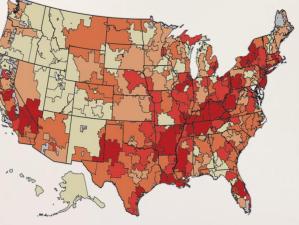
February 2013

Robert Wood Johnson Foundation

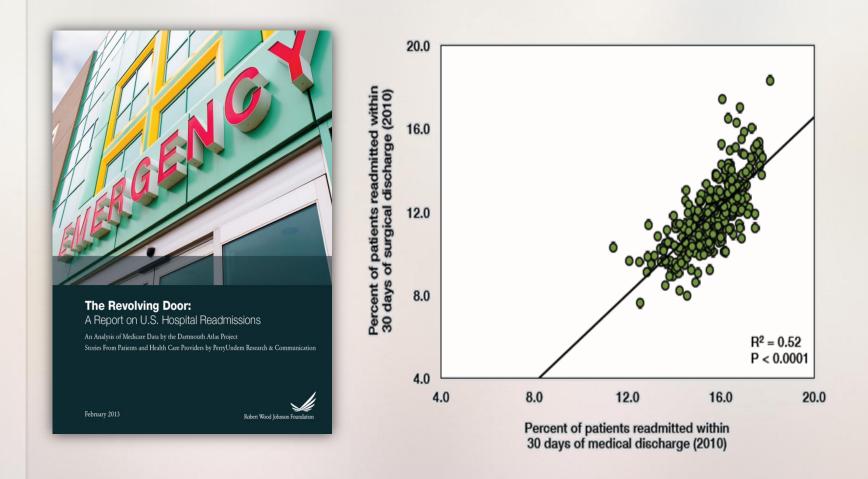
Percent of Patients Readmitted Within 30 Days of Medical Discharge

by Hospital Referral Region (2010)

16.5 to 18.2	(60)
15.9 to < 16.5	(66)
15.4 to < 15.9	(59)
14.6 to < 15.4	(61)
11.3 to < 14.6	(57)
Data suppressed	(3)
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#### CORRESPONDENCE

Are All Readmissions Bad Readmissions?

Hospitals with low readmissions tend to have high mortality

Hospitals with high readmissions tend to have low mortality

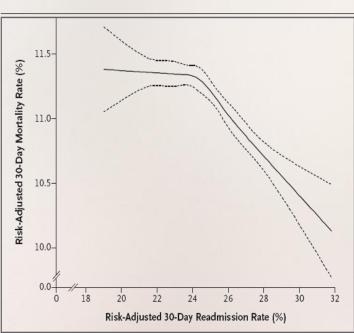


Figure 1. Comparison of Risk-Adjusted Hospital Readmission Rates and Mortality Rates 30 Days after an Index Admission for Heart Failure.

The dashed lines indicate the upper and lower limits of the 95% confidence intervals, and the solid line indicates linear regression. Data are from the Centers for Medicare and Medicaid Services Hospital Compare public reporting database.<sup>1</sup>

The NEW ENGLAND JOURNAL of MEDICINE



Eiran Z. Gorodeski, M.D., M.P.H. Randall C. Starling, M.D., M.P.H. Eugene H. Blackstone, M.D. Cleveland Clinic Cleveland, OH gorodee@ccf.org



Length of Stay, Readmission, and Mortality rates: Competing Clinical Outcomes

How do we see this relationship?

... complex and incompletely understood

Hospitals with low mortality rates are the ones that save **very ill patients**. These patients are then more likely to stay longer in hospital and to be readmitted.

Hospitals with low mortality rates and low length of stay could also be the ones that admit the **least sick patients**. This "*propensity to admit*" explains both low mortality rates, low length of stay, and high readmission rates.



Karen E. Joynt, MD, MPH, Harvard School of Public Health









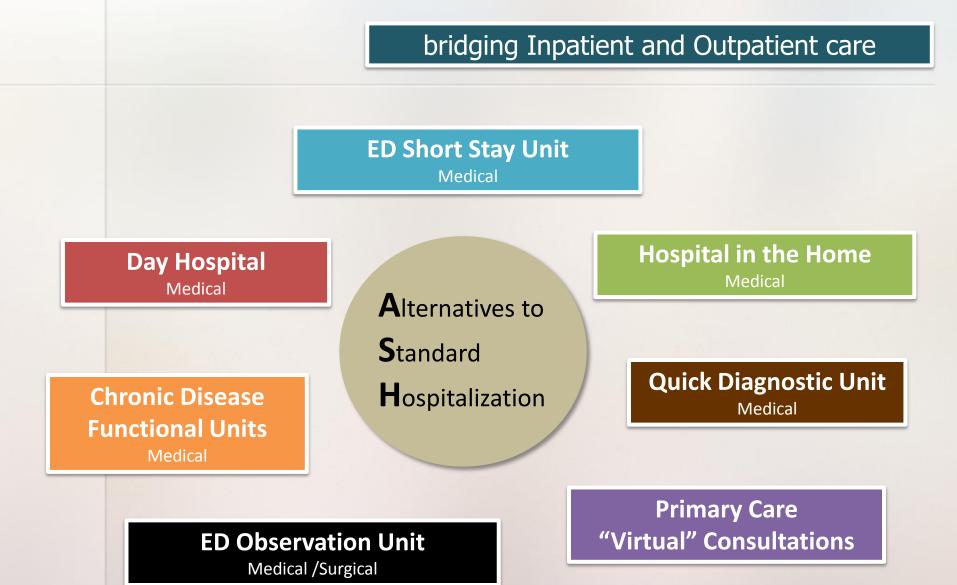




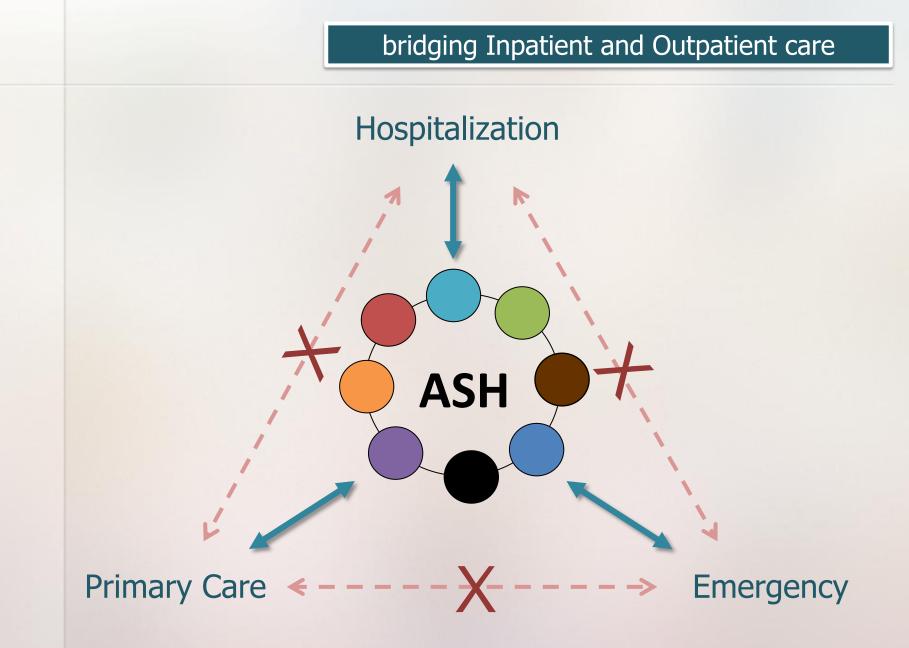
#### bridging Inpatient and Outpatient care







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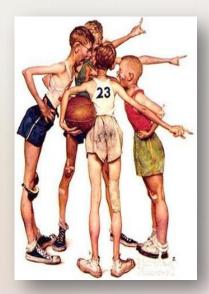
#### bridging Inpatient and Outpatient care

During the past decade, in addition to the traditional division between acute inpatient care and "ambulatory" outpatient care, several alternatives to standard hospitalization have emerged for bridging the traditional gap between inpatient and outpatient care





## Internal Medicine Department New Approach



#### **Inpatient Care**

Leadership in the attention to severely ill admitted patients

- → Acute exacerbation of Multi-morbidity & Geriatrics
- $\rightarrow$  Active medical support to Surgical Departments
- → Chronically critically patients after ICU admission
- → Complex and Rare Diseases

#### **Outpatient Care**

Leadership in the use of Alternatives to Conventional Hospitalization and "Major Ambulatory Medicine"



Moving from theory to practice may not be easy Internists may find "obstacles" at all levels:

#### **Patients**

Medical patients are old and frail

Medical patients usually have more than one chronic medical condition

#### **Families**

Caregivers of chronic patients seek something more than go at home "fast" Clinicians

Lack of experience in non-inpatient care Doubts concerning efficacy and safety

#### **Administrators**

Lack of financing Lack of incentive policies





Internal Medicine Department New Approach

So, in the current time...

... what do medical patients need ? ... more Beds ?
... probably no, they need better inpatient management !

# Internists should consider this an opportunity and not a loss !!



# Internal Medicine Department New Approach

Internists can do that...!, leading both
 → the attention to severely ill hospitalized patients and
 → the use of alternatives to standard hospitalization
 for reducing unnecessary hospital stays
 and avoidable inpatient admissions and readmissions.







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#### **New Strategies for a Hospital Integrated Care** The role of internists for bridging Inpatient and Outpatient Worlds

## Thank you very much for your attention



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