#### "L'APPROCCIO GENERALISTA NELLA CURA DEI PAZIENTI AD ALTA COMPLESSITÀ"







# Teoria e epidemiologia della multimorbilità

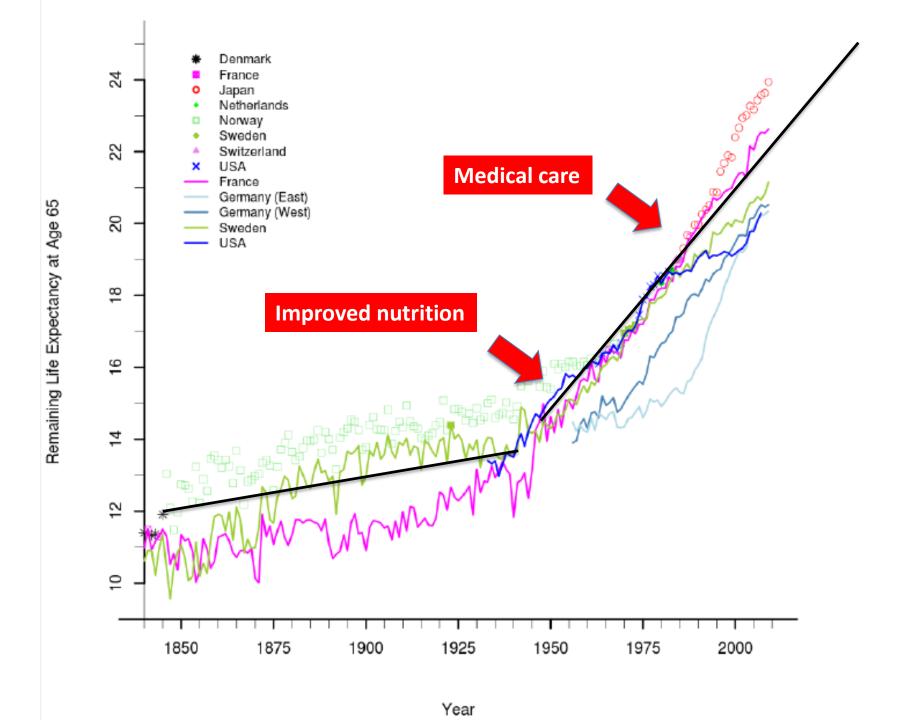
#### Raffaele Landolfi

Medicina Interna
Fondazione Policlinico Gemelli

- Tsunami epidemiologico
- Inflamm-aging e malattie età-associate
- Epidemiologia della multimorbilità
- Impatto della multimorbilità
- Crisi/insufficienza della EBM
- Da precision medicine a precision care
- Multimorbilità e frailty
- Il caso scompenso cardiaco
- Verso una nuova forma di assistenza

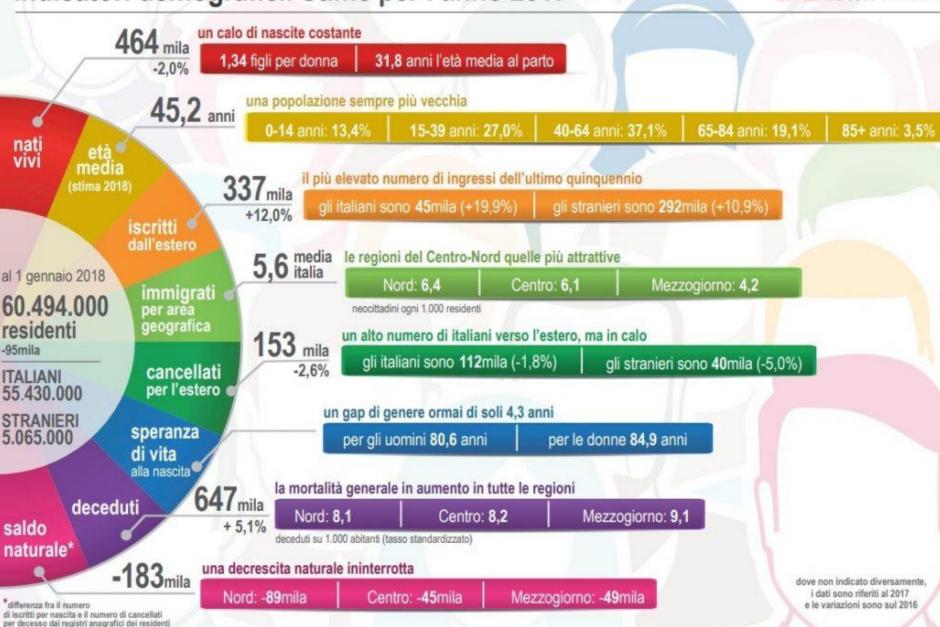
### Tsunami epidemiologico

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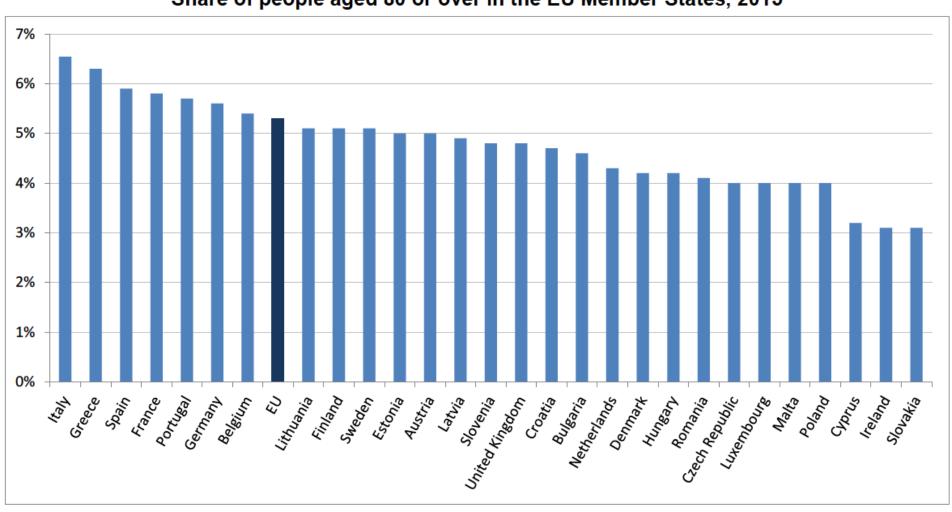
### Indicatori demografici. Stime per l'anno 2017







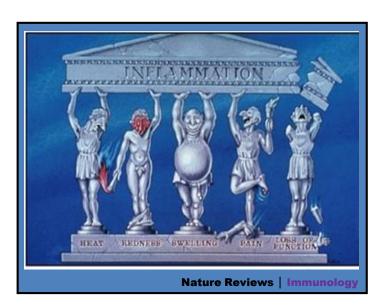
#### Share of people aged 80 or over in the EU Member States, 2015



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2294-2299, March 15, 2005 6, Vol. 105, Issue

## **Uncontrolled Inflammation Is a Pathological Feature of Common Diseases**

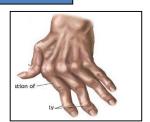


Excessive Uncontrolled



#### **Rheumatoid arthritis**





Cardiovascular diseases

(Atherosclerosis)

**Neurological disorders** 

(Alzheimer's, Parkinson's)

**Inflammatory bowel diseases** 

(Colitis, Crohn's)

**Asthma** 

Cancer

**Diabetes** 

**Autoimmune diseases** 

#### **Cardinal signs of inflammation:**

Calor (heat)

Rubor (redness)

Tumor (swelling)

Dolor (pain)

Aulus Cornelius Celsus, De medicina, c. A.D. 25

## **Uncontrolled Inflammation Is a Pathological Feature of Common Diseases**



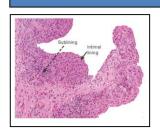
Excessive Uncontrolled

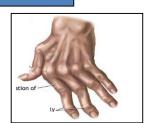


# AGING



#### **Rheumatoid arthritis**





Cardiovascular diseases

(Atherosclerosis)

**Neurological disorders** 

(Alzheimer's, Parkinson's)

**Inflammatory bowel diseases** 

(Colitis, Crohn's)

**Asthma** 

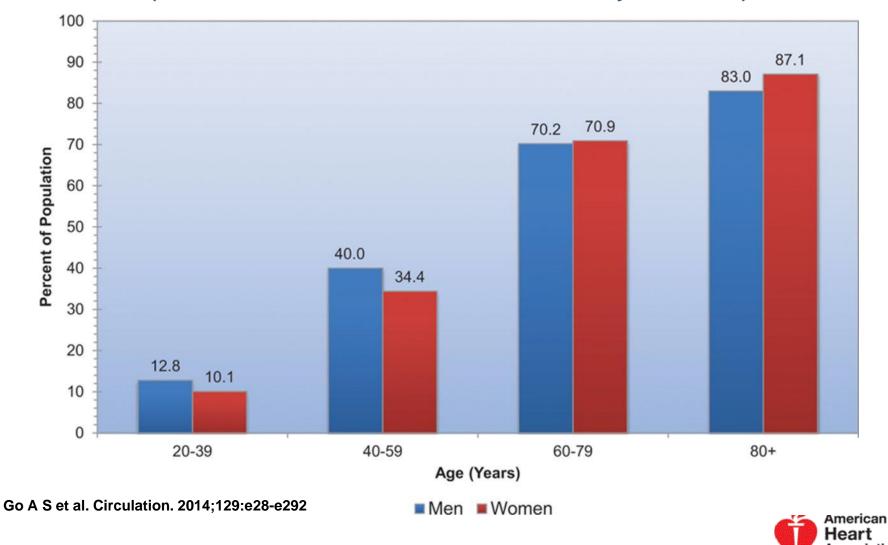
Cancer

**Diabetes** 

**Autoimmune diseases** 

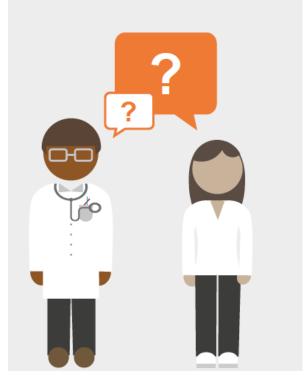
## Prevalence of cardiovascular disease

(National Health and Nutrition Examination Survey: 2007–2010)



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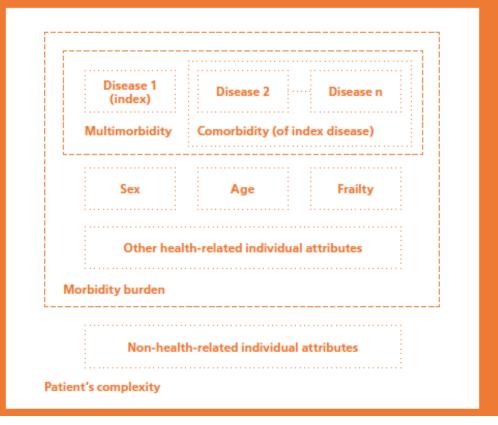
Not having an agreed definition of multimorbidity has hampered research and patient care.



Comorbidity is the co-existence of other conditions with an index condition that is the specific focus of attention.

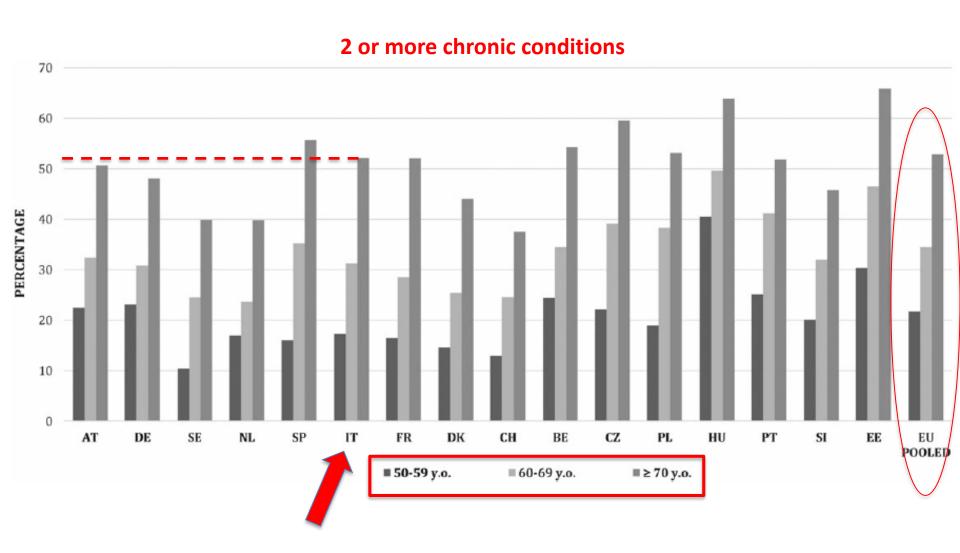
Multimorbidity is the co-existence of several conditions where none are considered an index condition that is the specific focus of attention.

Multimorbidity is therefore a highly heterogeneous concept, and can be used to describe a wide array of patients experiencing a multitude of different combinations of conditions. As described in **Section 2.1.2**, co-existing conditions can be similar in their origin and/or treatment (concordant multimorbidity) or appear to be unrelated from each other (discordant multimorbidity). Multimorbidity constitutes a more generic, patient-centred concept and in doing so also acknowledges that the impact of a condition is influenced not only by health-related characteristics but also by socioeconomic, cultural, and environmental factors, and patient behaviour.



## Associations between multimorbidity, healthcare utilisation and health status: evidence from 16 European countries

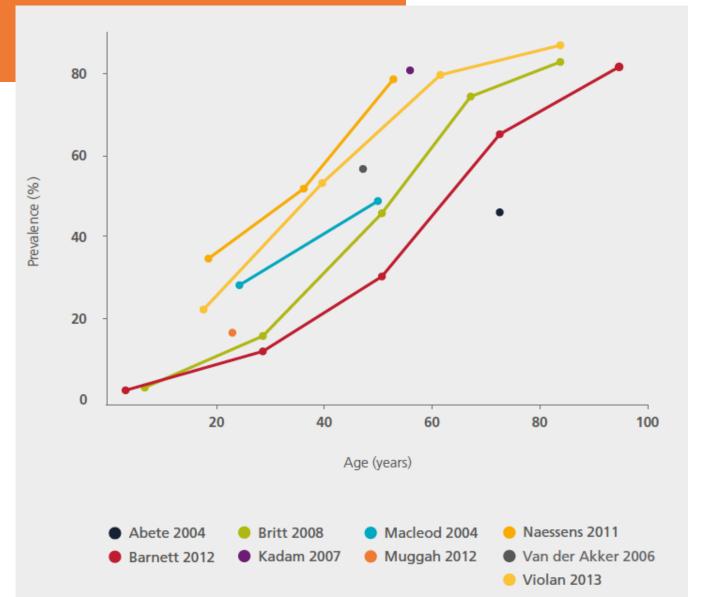
Age and Ageing 2016; **45:** 431–435



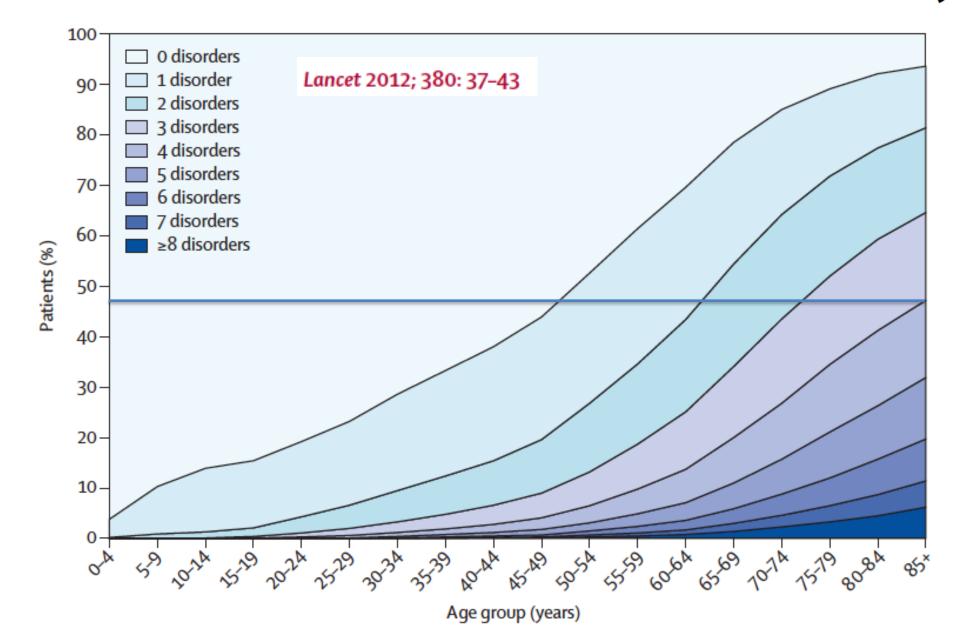
# Multimorbidity: a priority for global health research



April 2018



## Epidemiology of multimorbidity and implications for health care, research, and medical education: a cross-sectional study



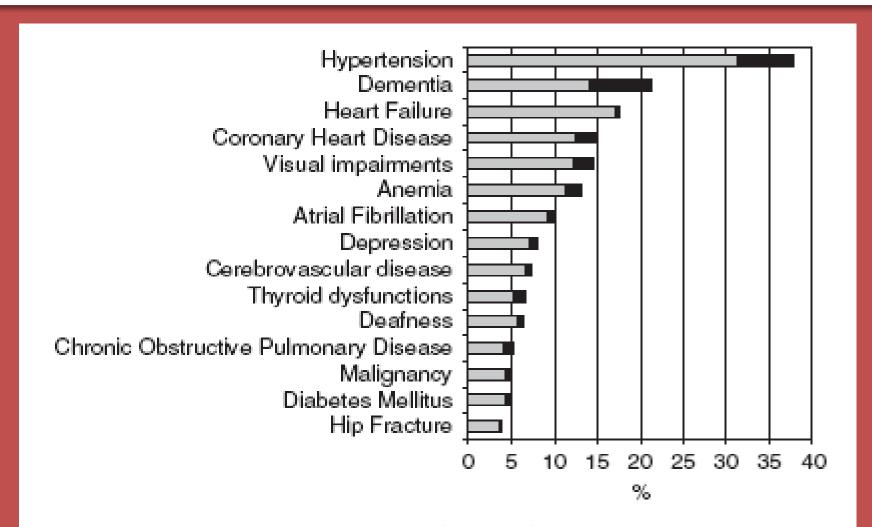
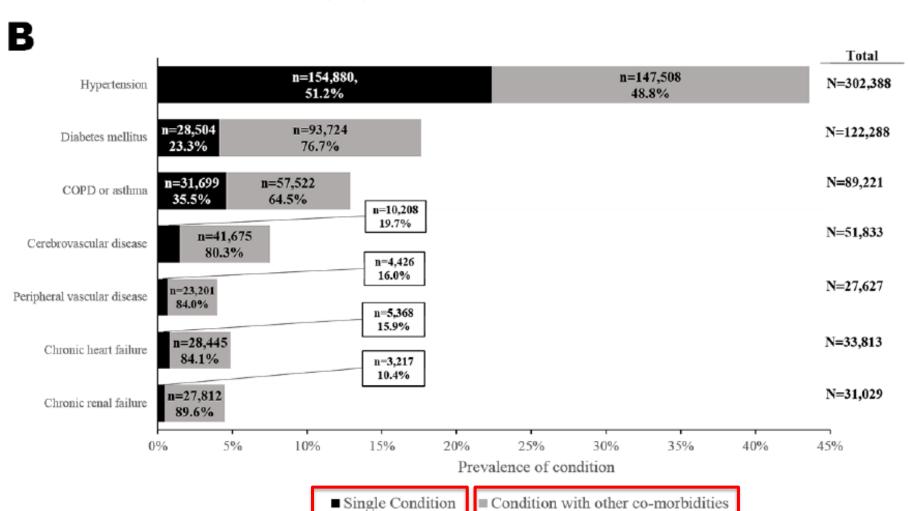


Figure 1. Prevalence per 100 of most frequent chronic diseases occurring independently of comorbidity (gray+black) or without any comorbidity (black).



March 6, 2018

Multimorbidity and survival for patients with acute myocardial infarction in England and Wales: Latent class analysis of a nationwide population-based cohort

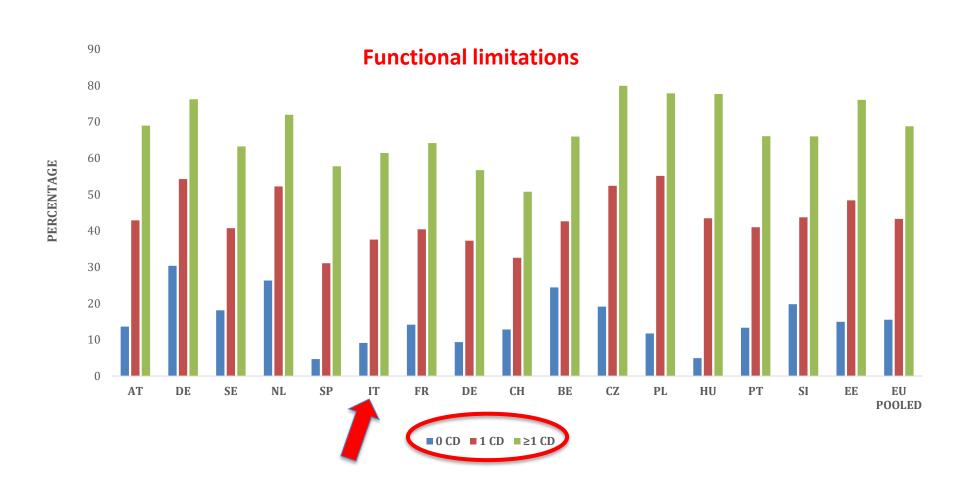


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# Associations between multimorbidity, healthcare utilisation and health status: evidence from 16 European countries Age and Ageing 2016; 45: 431-435



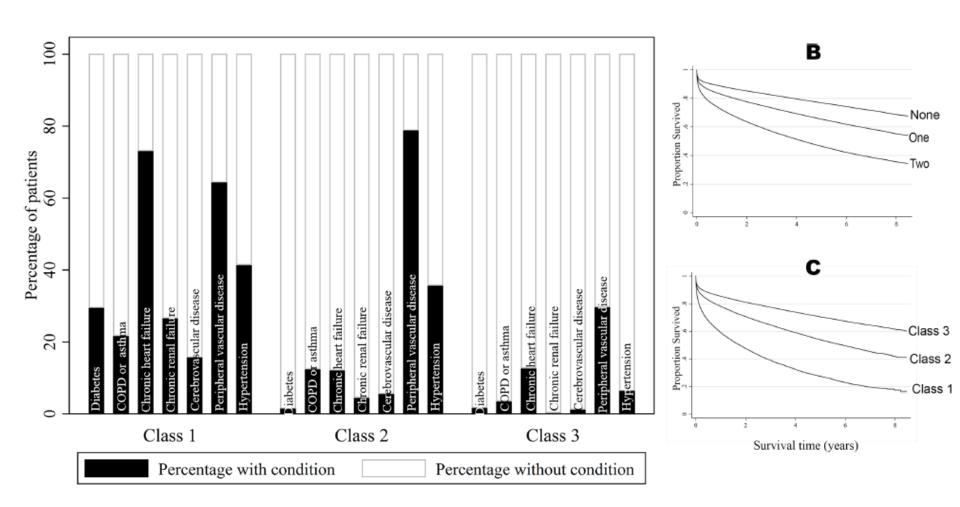
# Associations between multimorbidity, healthcare utilisation and health status: evidence from 16 European countries Age and Ageing 2016; 45: 431-435





March 6, 2018

Multimorbidity and survival for patients with acute myocardial infarction in England and Wales: Latent class analysis of a nationwide population-based cohort





#### Setting higher standards

Hospitals on the edge?

The time for action

Unsurprisingly, the demographic of hospital inpatients has also changed substantially in the 64 years since the NHS was created. An increasing number of patients are older and frail, and around 25% of inpatients have a diagnosis of dementia. The reality of care in our hospitals has changed considerably. Nearly two thirds (65%) of people admitted to hospital are over 65 years old. People over 65 occupy more than 51,000 acute care beds at any one time, accounting for 70% of bed days. Significant Episode Statistics (HES) show a 65% increase in secondary care episodes for those over 75 during the past 10 years, compared with 31% for those aged 15–59.

People over 85 years old account for 25% of bed days—increased from 22% over the past 10 years. This equates to more than five bed days per annum, compared to only one fifth of a bed day each year for those under 65.5 People over 85 tend to spend around eight days longer in hospital than those under 65—11 days compared to three.3

Despite patients over 65 making up the larger share of the hospital population, the system continues to treat older patients as a surprise, at best, or unwelcome, at worst. Much more

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### February 1, 2004 The American Journal of Medicine®

## The End of the Disease Era

Mary E. Tinetti, MD, Terri Fried, MD

#### Disease-Oriented Model

- Clinical decision making is focused primarily on the diagnosis, prevention, and treatment of individual diseases.
- Discrete pathology is believed to cause disease; psychological, social, cultural, environmental and other factors are secondary factors, not primary determinants of disease.
- Treatment is targeted at the pathophysiologic mechanisms thought to cause the disease(s).
- Symptoms and impairments are best addressed by diagnosing and treating "causative" disease(s).
- Relevant clinical outcomes are determined by the disease(s).
- Survival is the usual primary focus of disease prevention and treatment.

#### Integrated, Individually Tailored Model

- Clinical decision making is focused primarily on the priorities and preferences of individual patients.
- Health conditions are believed to result from the complex interplay of genetic, environmental, psychological, social, and other factors.
- Treatment is targeted at the modifiable factors contributing to the health conditions impeding the patient's health goals.
- Symptoms and impairments are the primary foci of treatment even if they cannot be ascribed to a discrete disease.
- Relevant clinical outcomes are determined by individual patient preference.
- Survival is one of several competing goals.

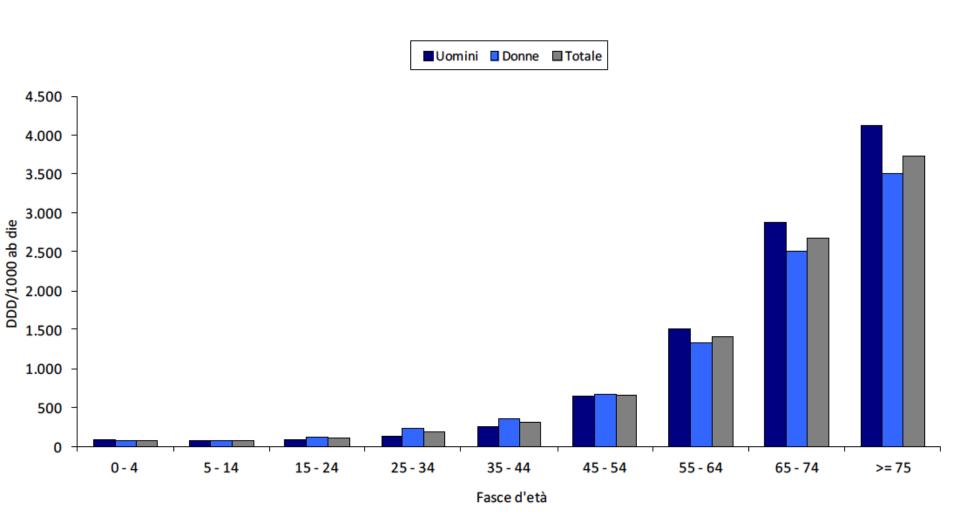
#### BMJ | MAKING A DIFFERENCE | 26 APRIL 2008 | VOLUME 336



Multiple health problems in elderly people The problem is that in health care the specialist medical view predominates. And, as a direct result, multiple diagnoses lead almost inevitably to polypharmacy as each condition is treated in perverse isolation from the others.

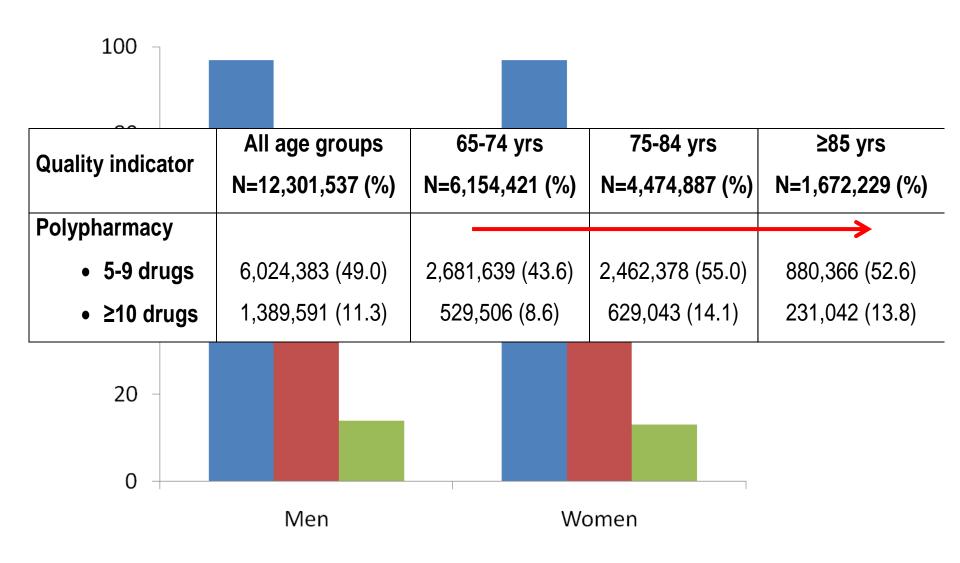
Research findings are extrapolated from younger age groups and interpreted overoptimistically in the context of what inevitably are limited life expectancies. As a direct result, older people are taking an ever increasing number of prescribed drugs, but because of diminished physiological reserve they are also more susceptible to adverse drug reactions and interactions. Nevertheless, the all too easy accusation of age discrimination means that the limited time available for older people to derive clinical benefit is not seen as a legitimate reason for "underprescribing."

## **Farmacoterapia**



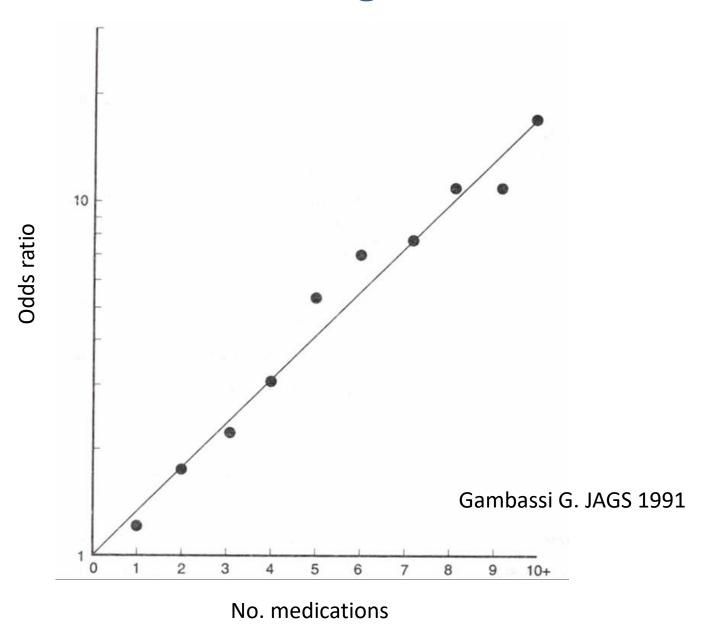
**Rapporto OsMed 2013** 

## **Use of Medications in Hospital**



Gambassi et al. Data from GIFA study

## Adverse drug reactions



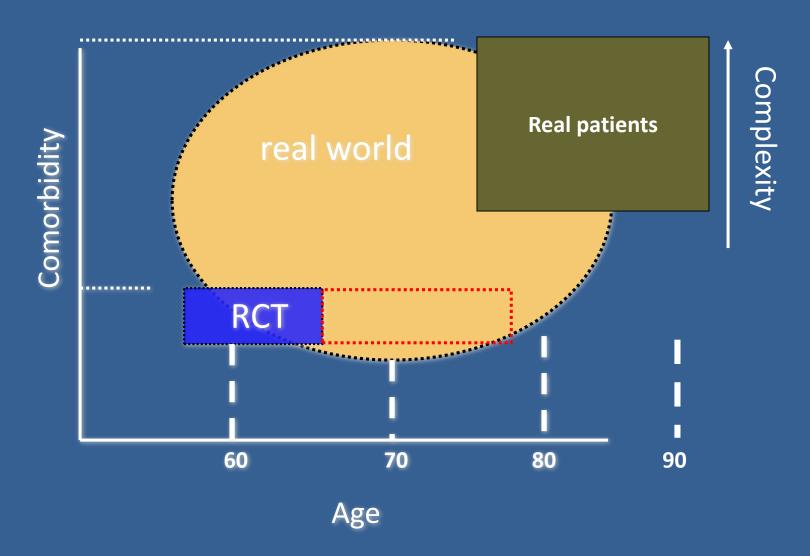
## Eligibility Criteria of Randomized Controlled Trials Published in High-Impact General Medical Journals

I pazienti risultavano esclusi in base a:

```
età
sesso femminile
multimorbilità
72.1% dei trial
47.0% dei trial
81.3% of trials
polifarmacoterapia
54.1% of trials
```

 I trials sui farmaci tendono ad escludere più facilmente, così come quelli sponsorizzati dall'industria farmaceutica.

## Evidence-B(i)ased Medicine



The NEW ENGLAND JOURNAL of MEDICINE

#### SOUNDING BOARD

## Potential Pitfalls of Disease-Specific Guidelines for Patients with Multiple Conditions

Mary E. Tinetti, M.D., Sidney T. Bogardus, Jr., M.D., and Joseph V. Agostini, M.D.



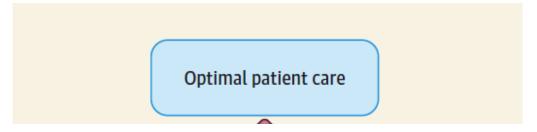
www.thelancet.com Vol 367 February 18, 2006

Comorbidity and guidelines: conflicting interests

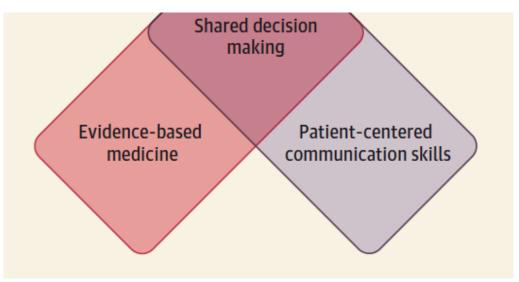


# The Connection Between Evidence-Based Medicine and Shared Decision Making

JAMA October 1, 2014 Volume 312, Number 13



Without shared decision making, EBM can turn into evidence tyranny.



## Evidence based medicine: a movement in crisis?

BMJ 2014;348:g3725 doi: 10.1136/bmj.g3725 (Published 13 June 2014)

Despite these and many other successes, wide variation in implementing evidence based practice remains a problem. For example, the incidence of arthroscopic washout of the knee joint, whose benefits are unproved except when there is a known loose body, varies from 3 to 48 per 100 000 in England.<sup>13</sup> More fundamentally, many who support evidence based medicine in principle have argued that the movement is now facing a serious crisis (box 1). 14 15 Below we set out the problems and suggest some solutions.

#### Box 1: Crisis in evidence based medicine?

- The evidence based "quality mark" has been misappropriated by vested interests
- · The volume of evidence, especially clinical guidelines, has become unmanageable
- · Statistically significant benefits may be marginal in clinical practice
- · Inflexible rules and technology driven prompts may produce care that is management driven rather than patient centred
- Evidence based guidelines often map poorly to complex multimorbidity

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## Management Reasoning Beyond the Diagnosis

By contrast, management reasoning is primarily a task of prioritization, shared decision making, and monitoring, and is typically more complex.

Author: David A. Cook, MD, MHPE, Division of General Internal Medicine, Mayo Clinic College of Medicine,

JAMA Published online May 10, 2018



#### Better management of patients with multimorbidity

We have argued that multimorbidity introduces clinical uncertainty in a way that is unlikely to be resolved by ever more sophisticated guidelines. Doctors must therefore embrace clinical judgment based on their assessment of a patient's needs. This requires time to deal with more than one problem at a time and coordination of care in ways that promote long term or at least medium term relationships between doctors and patients. This approach will inevitably emphasise the importance of generalist skills, whether among primary care doctors or those who specialise in the care of older people.

#### Key messages

Clinicians need to be free to exercise professional judgment in their management of patients with multimorbidity

Patients need to determine treatment priorities and the goals of medical care

Clinicians should provide continuity of care for people with complex long term problems

#### A Physician = Emotion + Passion + Science

Robert H. Brook, MD, ScD

JAMA, December 8, 2010 hood that the tually be read,

#### The art of medicine

#### Narrative evidence based medicine

We are coming to see that the three fundamental tensions upon which medicine finds itself—known/unknown, universal/particular, body/self—are reflected in the three circles of EBM. Clinical evidence examines the known and unknown. Clinical circumstances integrate the universal and particular. Patients' values speak to both body and self. By virtue of its capacity to recognise the tensions fully, narrative medicine can lend to evidence-based medicine the methods of respecting its three circles of attention. It is not through dearth of desire but dearth of methods that EBM has yet to achieve attention to all three circles. With narrative medicine's methods, EBM can indeed be true to all its promises.

www.thelancet.com Vol 371 January 26, 2008

#### **National Guideline Centre**

**Final** 

#### Multimorbidity: clinical assessment and management

Multimorbidity: assessment, prioritisation and management of care for people with commonly occurring multimorbidity

NICE guideline NG56

Methods, evidence and recommendations

September 2016

Final.

Commissioned by the National Institute for Health and Care Excellence











#### **General principles**

- Be aware that <u>multimorbidity</u> refers to the presence of 2 or more long-term health conditions, which can include:
  - defined physical and mental health conditions such as diabetes or schizophrenia
  - ongoing conditions such as learning disability
  - · symptom complexes such as frailty or chronic pain
  - sensory impairment such as sight or hearing loss
  - alcohol and substance misuse.
- Be aware that the management of risk factors for future disease can be a major treatment burden for people with multimorbidity and should be carefully considered when optimising care.
- Be aware that the evidence for recommendations in NICE guidance on single health conditions is regularly drawn from people without multimorbidity and taking fewer prescribed regular medicines.
- 4. Think carefully about the risks and benefits, for people with multimorbidity, of individual treatments recommended in guidance for single health conditions. Discuss this with the patient alongside their preferences for care and treatment.



Cochrane Database of Systematic Reviews 2016, Issue 3. Art. No.: CD006560.

DOI: 10.1002/14651858.CD006560.pub3.

**Cochrane** Database of Systematic Reviews

## Interventions for improving outcomes in patients with multimorbidity in primary care and community settings

We identified 18 RCTs examining a range of complex interventions for people with multimorbidity. Nine studies focused on defined comorbid conditions with an emphasis on depression, diabetes and cardiovascular disease. The remaining studies focused on multimorbidity, generally in older people. In 12 studies, the predominant intervention element was a change to the organisation of care delivery, usually through case management or enhanced multidisciplinary team work. In six studies, the interventions were predominantly patient-oriented, for example, educational or self-management support-type interventions delivered directly to participants. Overall

#### Authors' conclusions

This review identifies the emerging evidence to support policy for the management of people with multimorbidity and common comorbidities in primary care and community settings. There are remaining uncertainties about the effectiveness of interventions for people with multimorbidity in general due to the relatively small number of RCTs conducted in this area to date, with mixed findings overall. It is possible that the findings may change with the inclusion of large ongoing well-organised trials in future updates. The results suggest an improvement in health outcomes if interventions can be targeted at risk factors such as depression, or specific functional difficulties in people with multimorbidity.

#### Approach for Achieving Effective Care for High-Need Patients

	Patient Subpopulation	Drivers of Costs
	Children with complex needs: severe impairment in at least 4 categories (including learning and mental functions, communication, motor skills, self-care, hearing, or vision) or at least 2 categories in addition for need of enteral or parental feeding or ventilatory support	Substantial spending in acute care settings with long-term hospital stays, often driven by lack of appropriate resources in the community coupled with inability of families to manage their care and supervision without intensive support
	Nonelderly disabled adults: adults <65 y old with physical or cognitive disability	High levels of spending on drugs, long-term care support, and services and high burden of mental health disease and substance abuse
<del></del>	Frail elderly individuals: adults ≥65 y of age with ≥2 frailty markers (eg, gait abnormality, malnutrition, failure to thrive, cachexia, debility, difficulty walking, or history of falls)	Most spending is related to hospitalizations, including preventable hospitalizations, and subsequent post-acute care use, including short-term rehabilitation centers, skilled nursing facilities, and home health services
	Patients with major complex chronic conditions: patients with ≥2 complex chronic conditions (eg, congestive heart failure, chronic kidney disease, or chronic obstructive pulmonary disease).	Most spending was related to the use of outpatient services across multiple specialty services followed by spending related to hospitalizations
	Patients with less severe but multiple chronic conditions: patients with <6 chronic conditions (and ≤2 major complex chronic conditions)	High levels of spending in the outpatient setting with relatively low levels of spending in the acute care setting with patients at increased risk for developing major chronic conditions in future with subsequent increased risk of spending
	Patients with advancing illness: patients with terminal illness (eg, advanced cancer) or near end of life	Substantial variation in spending depending on underlying illness, including specialized treatment for cancer or intensive hospital-level care for patients with an end-stage organ disease process

#### Precision medicine to precision care: managing multimorbidity

The gap between traditional disease-focused medicine and patients' needs is growing as the burden of multimorbidity increases.¹ This mismatch, which stems from both successes (eg, increasing life expectancy and advances in biomedicine) and failures (eg, underinvestment in prevention and focus on managing discrete disease rather than what matters to each patient), results in fragmented care, suboptimal health outcomes, and avoidable harms for patients with multiple chronic conditions. Although multimorbidity is common among older adults (aged ≥65 years), it is also common in younger populations.

In the USA in 2010, over 60% of adults aged 65 years or more had two or more chronic conditions as did a third of adults aged 45–64 years.<sup>2</sup> Socioeconomically disadvantaged individuals have a higher burden of multimorbidity, and they develop multiple chronic conditions 10–15 years earlier than do those who are more socioeconomically advantaged.<sup>3</sup> People with multimorbidity are common users of health care, generate high costs, and are at increased risk for adverse events. Most of these individuals are cared for by practitioners with inadequate expertise in geriatrics or multimorbidity.

Multimorbidity is the most common condition managed in practice. Health-care delivery must be transformed to provide precision care to people with multimorbidity. Accomplishing this transition will require a change in practice, research, and policy from disease-specific to patient-centred models of care delivery.

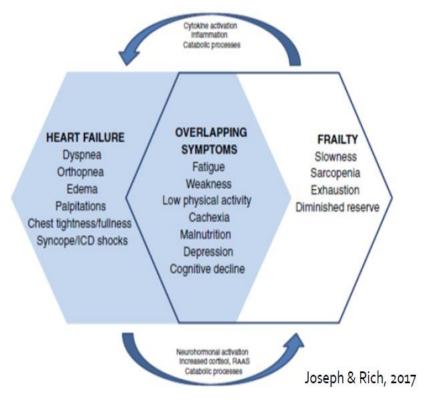
www.thelancet.com Vol 388 December 3, 2016

#### **Outline**

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#### Overlapping Symptoms of HF and Frailty

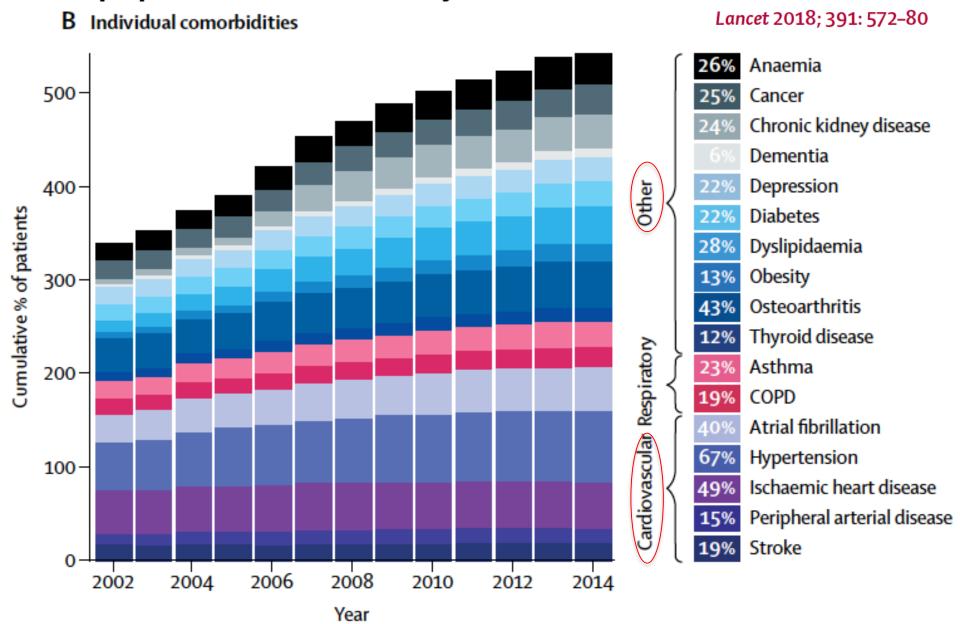




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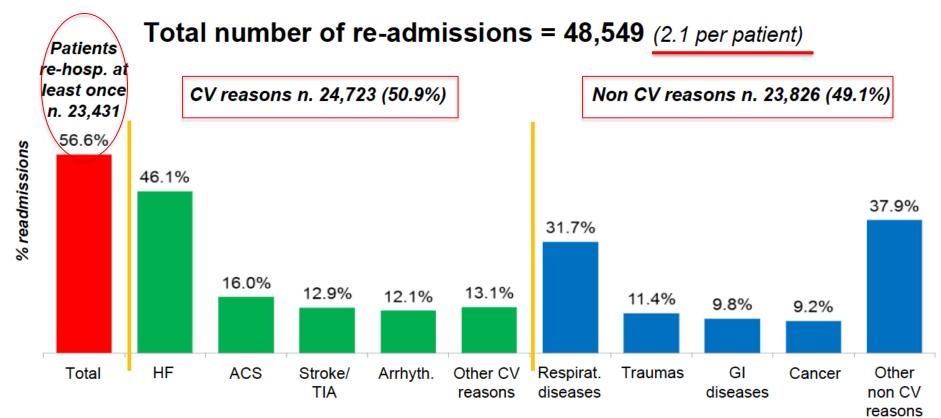
## Temporal trends and patterns in heart failure incidence: a population-based study of 4 million individuals





#### Rate and causes of hospital re-admissions

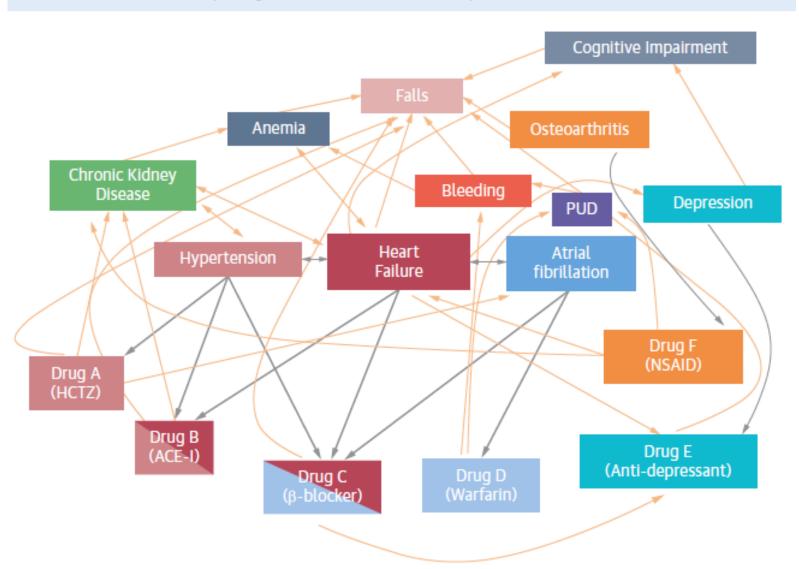




### Multimorbidity in Older Adults With Cardiovascular Disease

JACC VOL. 71, NO. 19, 2018 MAY 15, 2018:2149-61

Diseases and Medications Impacting One Another in Multimorbidity



### Multimorbidity in Older Adults With Cardiovascular Disease

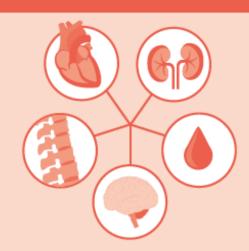
JACC VOL. 71, NO. 19, 2018 MAY 15, 2018:2149-61

#### Treating Multimorbidity in Older Adults with Cardiovascular Disease (CVD)



#### Current separate disciplinary approach:

- Focus on dominant cardiac issue; non-cardiac comorbid diseases are separate and secondary
- Limited integration across or between conditions
- Lack of standardized approach
- Treatment provided by separate specialists, primary care physician, and care extenders



#### Recommended multidisciplinary approach:

- Focus on identifying preferences and goals and providing preference-sensitive options
- Integration between conditions and specialties
- Overall integrated care plan
- Treatment provided by multidisciplinary team; linked electronic health records

Differences between current disease-specific paradigm and the emerging patient-specified goal directed care approach: the latter seeks to address issues emanating from cardiovascular disease in a context of multimorbidity.

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#### Making more of multimorbidity: an emerging priority

Multimorbidity would seem a relatively straightforward term, denoting multiple medical conditions within a single patient. Yet an Academy of Medical Sciences report, Multimorbidity: a priority for global health research, published in April, 2018, suggests that competing definitions in the medical literature have impeded research and improvements in patient care. The report recommends that a path forward must include a standardised definition that can be incorporated into

Multimorbidity, as emphasised by the authors, is distinct from comorbidity because there is no primary or index condition. Frailty is a related construct in ageing populations, but is different since patients with multimorbidity might not necessarily be frail. Researchers

research agendas to identify the evidence gaps and to

inform the organisation of health-care systems globally.

Most of the evidence on multimorbidity has come from cross-sectional studies sampling specific populations in various settings. The report largely focuses on where the research agenda must be extended, including refining descriptive epidemiology, especially for LMICs and younger patients, and underscoring the need for longitudinal cohort data to understand clustering of conditions across the lifespan. But it also highlights the challenges for patients and clinicians. The majority of health-care systems are organised to treat single conditions. For patients with multimorbidity, that can mean interfacing with multiple health-care providers, increased risk of inappropriate polypharmacy from lack of provider communication, and potentially suboptimal care.

To update health-care systems in the face of the increasing burden of multimorbidity will require a shift for





# To update health-care systems in the face of the increasing burden of multimorbidity will require a shift for physicians from specialists to generalists, likely through

and is the norm in this age group in high-income countries. It is also more prevalent in women, possibly because of greater exposure to the adverse effects of poverty. Multimorbidity is increasing globally, likely driven by the ageing population but also by factors such as high body-mass index, urbanisation, and the growing burden of NCDs (such as type 2 diabetes) and tuberculosis in low- and middle-income countries (LMICs). Predictably, certain morbidities cluster together, such as coronary heart disease and cerebrovascular disease. These conditions are called concordant multimorbidities since they can share a common aetiology. Depression, cardiometabolic disorders, and musculoskeletal disorders are most commonly present within multimorbidity clusters. Notably, multimorbidity clusters comprising concurrent physical and mental

is extremely costly to individuals and health-care systems. While actively engaging in efforts to adapt to increasing demand, identifying the determinants of the acceleration of multimorbidity is crucial. Appreciating that multimorbidity clusters are linked with the increase in NCDs is essential as well. The report backs up the findings and recommendations in *The Lancet's* Taskforce on NCDs and Economics, also published this month, highlighting greater investment in prevention and control of NCDs to disrupt the cycle of chronic illness and economic impoverishment.

The multimorbidity perspective adds a timely dimension, suggesting an important window of opportunity to curtail this complex and expanding challenge. Aggressively targeting NCDs as preventable and with identifiable (and

For Multimorbidity: a priority for global health research see https://acmedscl.ac.uk/policy/ policy-projects/multimorbidity

rThe Lancet's Taskforce on Ds and Economics see http:// ww.thelancet.com/series/ &force-NCDs-and-economics

www.thelancet.com Vol 391 April 28, 2018



# Putting patients first: realising Francis' vision

Royal College of Physicians' response to the final report of the Mid Staffordshire NHS Foundation Trust Public Inquiry



# Choosing Wisely\*



An initiative of the ABIM Foundation



### ESS IS MORE

#### Family Medicine Forum (FMF), 2016, Vancouver

misuse of evidence FBM

imbalance of power

entitlement & patient satisfaction



medicalization



fear of uncertainty



fear of death and illness



fear of litigation



perverse incentives



industry pressure, corruption



new technology



magical thinking



herd mentality

# Health Care Factors

evidence-based medicine



patient-centred care



fully-informed consent



population health



comfort with uncertainty



strong relationships



taking time



cost awareness



professionalism & accountability



measuring quality



efficiency



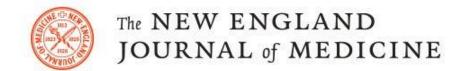
safety & common sense

#### INAPPROPRIATENESS

choosing unwisely, overdiagnosis, wrong care, overtreatment, undertreatment, too much medicine

#### APPROPRIATENESS

Less is More, 'Goldilocks' healthcare, choosing wisely, high-value care, #rightcare, minimally-disruptive medicine



We believe that a shift toward the acknowledgment and acceptance of uncertainty is essential — for us as physicians, for our patients, and for our health care system as a whole. Only if such a revolution occurs will we thrive in the coming medical era.

Arabella L. Simpkin, B.M., B.Ch., M.M.Sc, and Richard M. Schwartzstein, M.D. N Engl J Med 2016; 375:1713-1715 November 3, 2016 DOI: 10.1056/NEJMp1606402



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# THE GOOD PHYSICIAN TREATS THE GREAT PHYSICIAN TREATS THE PATIENT WHO HAS THE DISEASE

WILLIAM OSLER

#### Summary

- Invecchiamento della popolazione associato ad aumentata prevalenza della multi-morbilità
- Impatto enorme della multi-morbilità sulla qualità della vita e sull'utilizzo di risorse
- Necessità di rivedere il modello di assistenza specializzato per patologie
- Uso ragionato delle evidenze scientifiche
- Centralità del paziente nelle scelte terapeutiche e nella definizione delle priorità di trattamento