

QUALITÀ DEL SERVIZI SANITARI

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Di cosa vorrei parlare oggi...

Progetto sugli indicatori qualità

Studi analitici su cancro e CVD

Studi paese sulla qualità

Le prossime 'slides' in inglese



MEASURING QUALITY

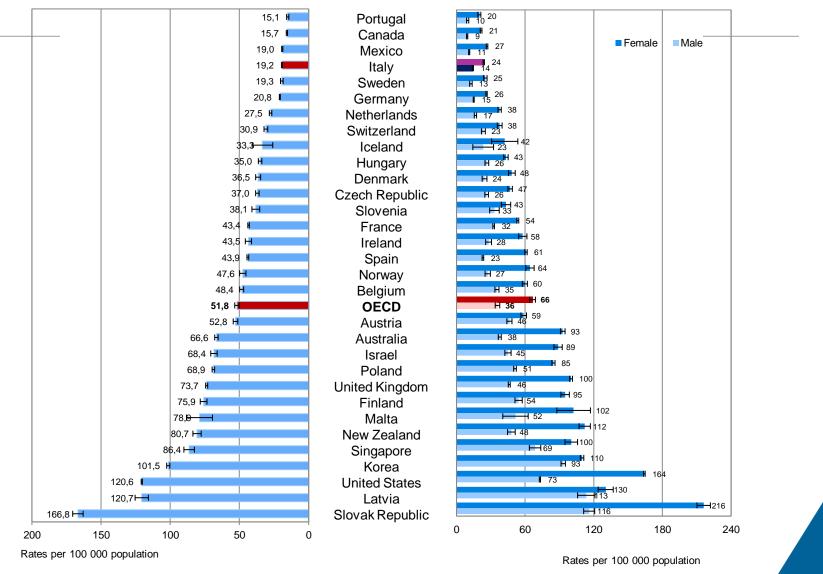


Indicator areas

- 1. Primary Care: hospital admissions for chronic conditions
- 2. Acute Care: 30-day case fatality rates after hospital admission for AMI and stroke
- 3. Mental Health Care: re-admission rates
- 4. Cancer Care: survival, mortality and screening rates
- 5. Patient Safety Indicators
- 6. Patient Experiences
- 7. Infectious diseases (vaccination rates)



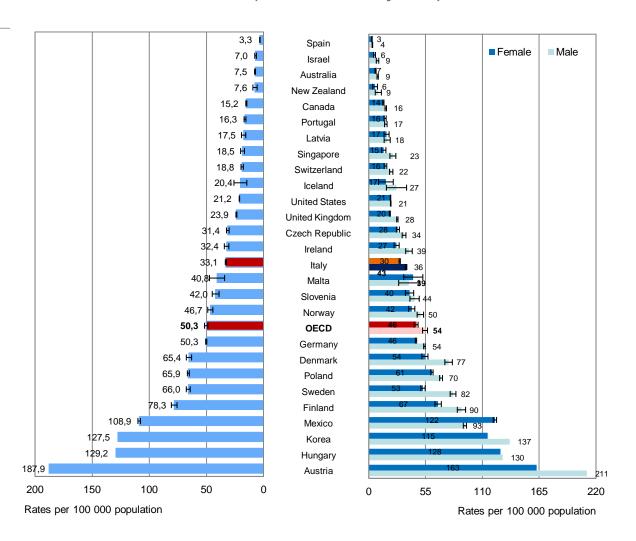
1. Asthma hospital admission rates, population aged 15 and over, 2009 (or nearest year)



Note: Rates are age-sex standardised to 2005 OECD population. 95% confidence intervals are represented by H. Source: OECD Health Data 2011.



1. Uncontrolled diabetes hospital admission rates, population aged 15 and over, 2009 (or nearest year)



Note: Rates are age-sex standardised to 2005 OECD population. 95% confidence intervals are represented by H. Source: OECD Health Data 2011.



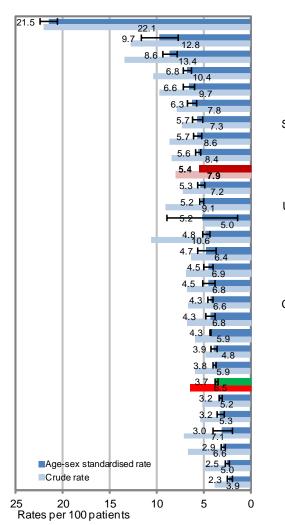
2. Hospital quality of care indicators: finding better indicators than mortality

Case fatality rates within 30 days after admission for AMI, 2009 (or nearest)

Mexico Japan Belgium

Germany

Admission-based rates (same hospital)



Portugal Korea Slovak Republic Austria Spain OECD Netherlands United Kingdom Luxemboura Finland Slovenia Sw itzerland Israel Czech Republic Ireland **United States** Poland Canada Italy Australia New Zealand

Iceland

Sw eden

Norw av

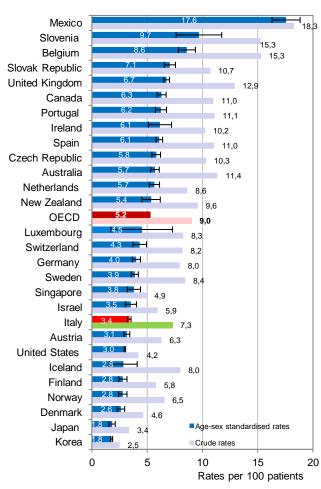
Denmark

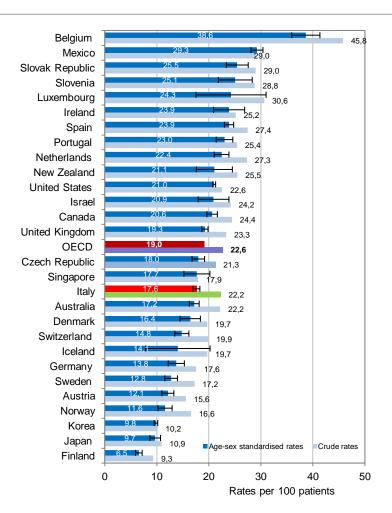
Note: Rates age-sex standardised to 2005 OECD population (45+). 95% confidence intervals represented by H.

Source: OECD Health Data 2011.



2. In-hospital case-fatality rates within 30 days after admission for ischemic and hemorrhagic stroke, 2009 (or nearest year)





Note: Rates age-sex standardised to 2005 OECD population (45+)95% confidence intervals

represented by H

Source: OECD Health Data 2011

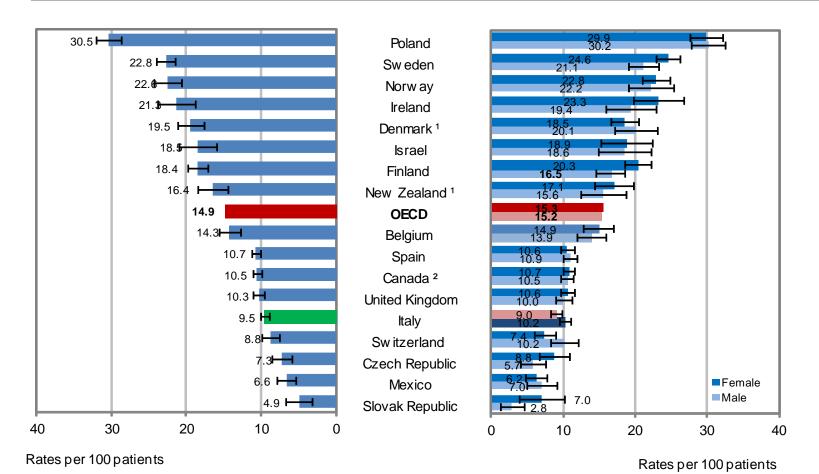
Note: Rates age-sex standardised to 2005 OECD population (45+).

95% confidence intervals represented by H.

Source: OECD Health Data 2011.



3. Bipolar disorder re-admissions to the same hospital, 2009 (or nearest year)



Rates age-sex standardised to 2005 OECD population. 95% confidence intervals represented by

- 1. Data do not include patients with secondary diagnosis of schizophrenia and bipolar disorder.
- 2. Only readmissions within 30 days of the initial hospitalization were counted as readmissions. *Source:* OECD Health Data 2011.

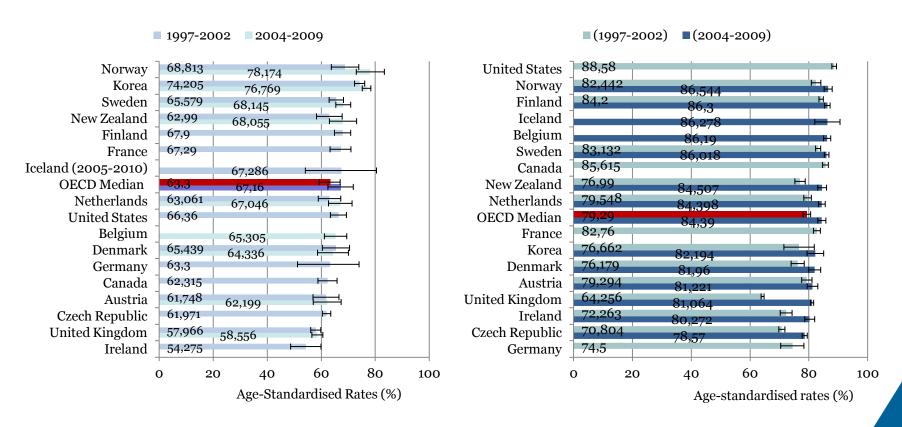


4. Cancer survival

Better indicator than mortality to measure effects of health system Five-year relative survival rates

Cervical cancer

Breast cancer

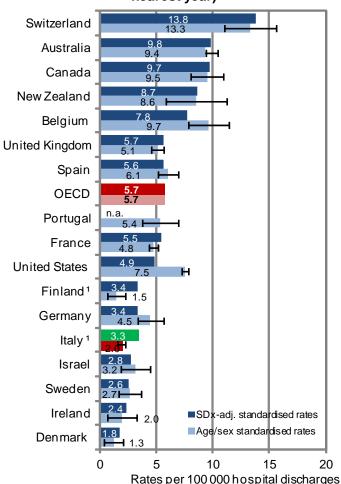


Note: Survival rates are age-standardised to the International Cancer Survival Standards Population. Source: *OECD Health Care Quality Indicators Data 2011*.



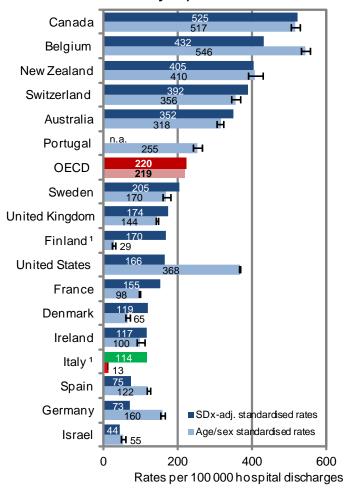
5. Patient safety

Foreign body left in during procedure, 2009 (or nearest year)



1. The average number of secondary diagnoses is < 1.5 *Source:* OECD Health Data 2011.

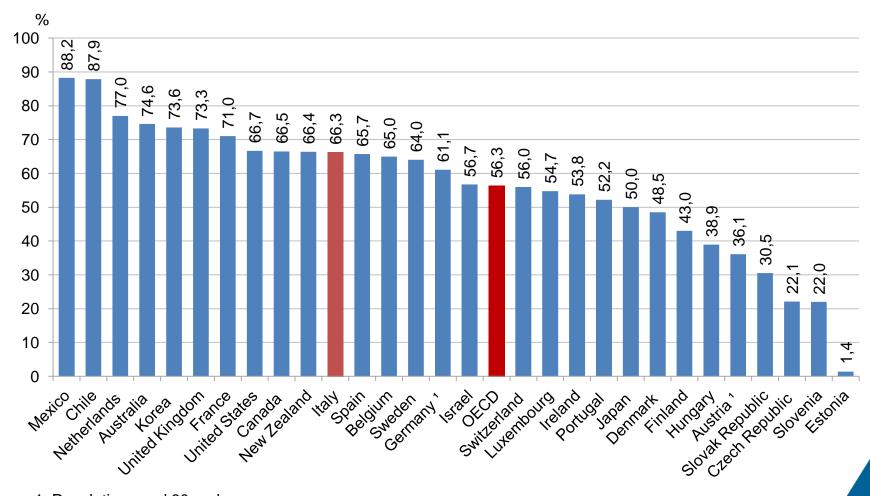
Accidental puncture or laceration, 2009 (or nearest year)



1.The average number of secondary diagnoses is < 1.5 *Source:* OECD Health Data 2011.



7. Elderly vaccination



1. Population aged 60 and over. Source: OECD Health Data 2011.



Quality of care in Italy seems relatively good, but do we have the full picture?

	Position relative to average of selected OECD countries
Avoidable admission rates for respiratory diseases and diabetes	Better
In-hospital mortality following acute myocardial infarction and stroke	Better
Obstetric trauma	Better
Procedural or postoperative complications	Better
Hospital readmission for mental disorders	Better
Lung, colecteral cancer survival	Average
Measles vaccination rate	Worse
Older people vaccination for influenza	Better



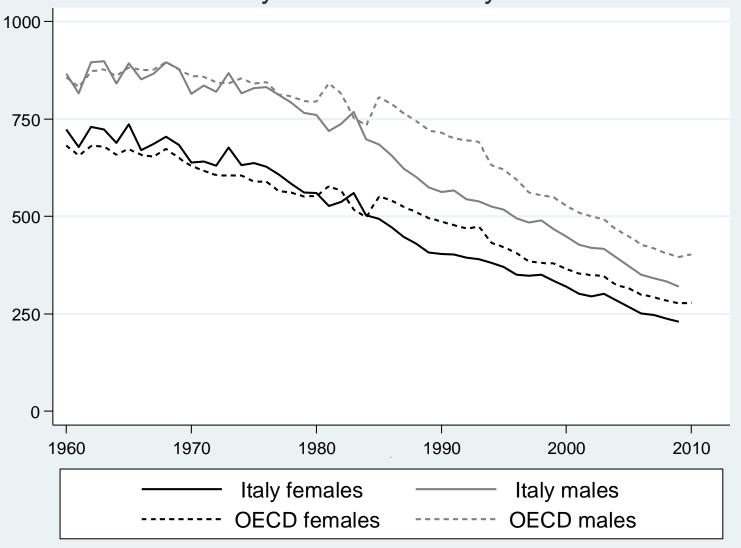
Strengthening national information infrastructures matters to quality

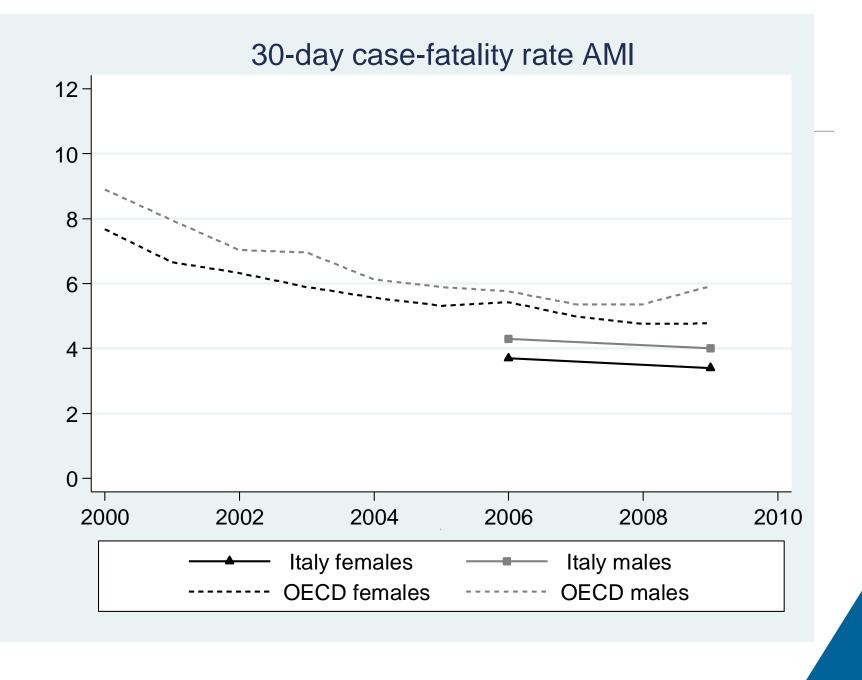
- National information infrastructure is improving:
 - Data sources are varied (Death statistics, Registries (like cancer), Administrative Data-bases, Record keeping, Surveys)
 - National databases with individual-level records are available
- A difficult balance between patient protection and advancing quality/research
 - Half of OECD countries have regular data linkage studies
 - A few have the legal framework to allow linkage with historical population databases without patient consent
 - Need to reduce unnecessary barriers to data use
- Data sharing mechanisms essential where multiple data custodians/decentralised systems exist



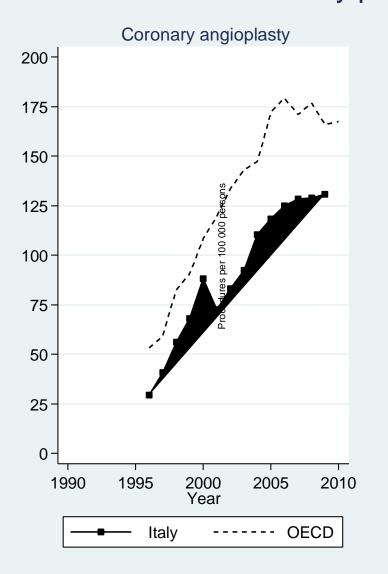
STUDI ANALITICI: CVD AND CANCER

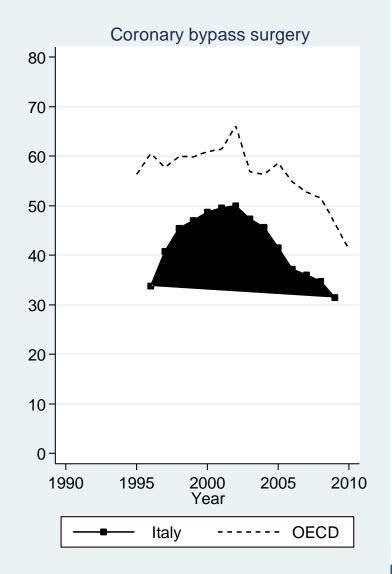
Mortality rate - circulatory diseases





Coronary procedures





• Analysis on:

- how countries compare in their ability to reduce the health burden from CVD and diabetes.
- explain the role of the health system characteristics and resources in reducing CVD mortality

• Using:

- longitudinal OECD Health Data
- survey on health system characteristics
- survey on CVD care access, quality initiatives and resources
- use econometric techniques to explain cross-country trends in cardiovascular/diabetes outcomes over time.
- Work has commenced and is due to be completed in 2014

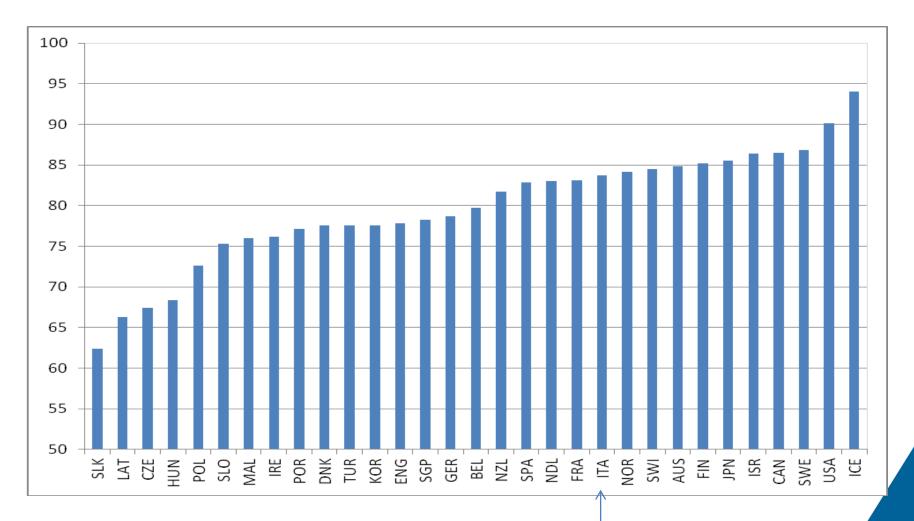


Cancer

- One of the major public health issues in OECD countries.
 - 5 million new cases per year in the OECD
 - 'either the first or the second cause of death (after cardiovascular disease), accounting for more than a quarter of all deaths in many countries,
 - at least one-third of cancer can be prevented and
 - a further third can be either detected early or effectively treated.
 - 5% of total health spending
- Cancer survival varies across countries, and so do organisation of cancer care.

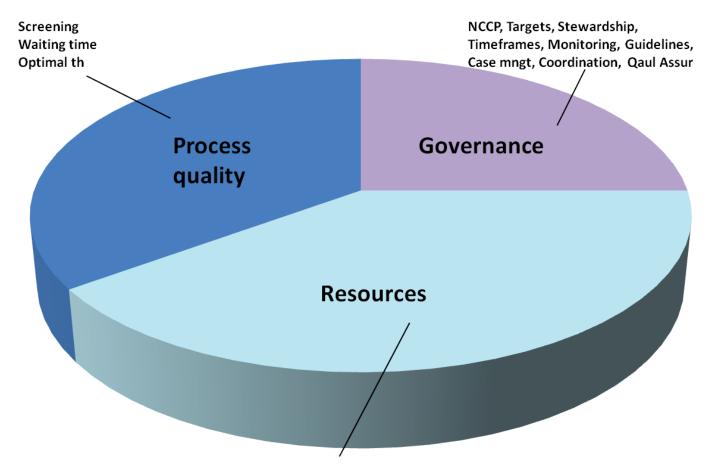


Large variability in five-year relative survival of patients diagnosed with breast cancer (%) in 2000-2002





Results



TNEH, Drug clin use, CT per GDP, Th Centres



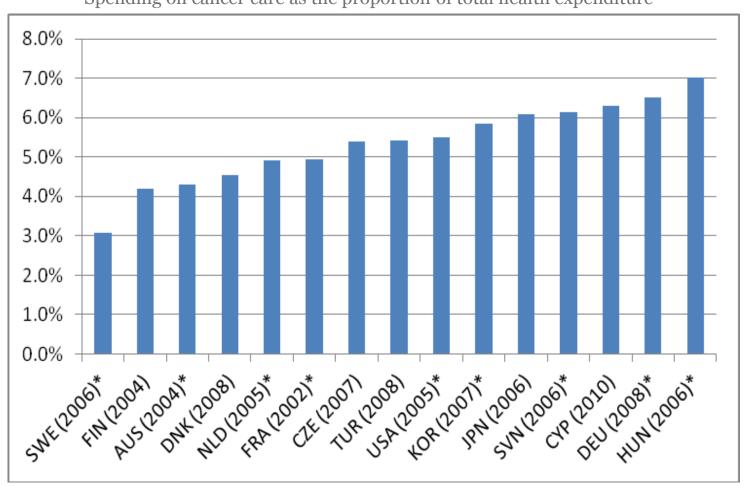
Resources for cancer care

- Almost a half of differences in cancer survival may be explained by the available resources.
- Key explanatory variables:
 - financing (total national expenditure on health),
 - investment in **new cancer drugs**, (clinical use of 10 selected drugs)
 - investment in **technology** (CT scanners/1M/GDP),
- existing **infrastructure** resources (comprehensive cancer centres/1M).



Expenditure on cancer care - cont.

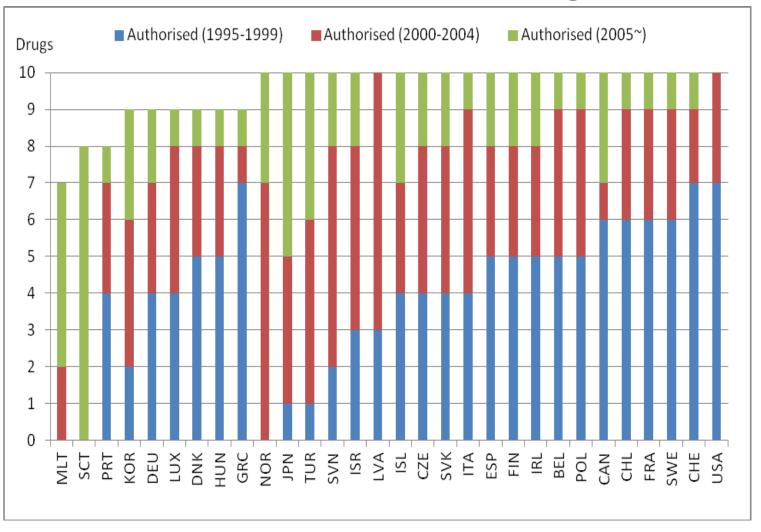






Innovative cancer drugs

Years of authorisation for 10 selected drugs



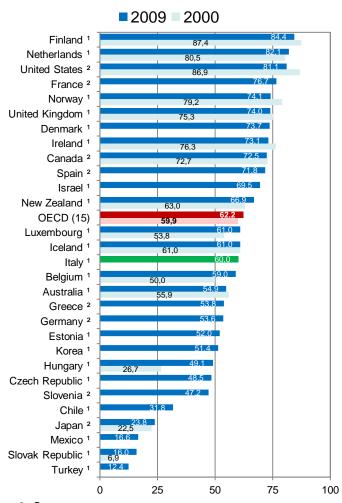


Process quality of the delivery

- Process quality of the delivery of cancer care may explain approximately one third of differences in cancer survival.
- The key explanatory variables:
 - early detection through a screening programme (national rollout, nationwide coverage, interval),
 - easy access to cancer services
 (waiting time from diagnosis to initial treatment),
 - provision of **optimal treatment** (combined surgery, radiotherapy, chemotherapy).



Practive: Mammography screening, percentage of women aged 50-69 screened, 2000 to 2009 (or nearest year)



1. Programme. 2. Survey.

Source: OECD Health Data 2011.



Waiting time

Average waiting time between cancer diagnosis and initial treatment, latest year available

Country	Breast cancer	Cervical cancer	Colorectal cancer	Lung cancer	All cancers
Canada	30 days (Median)	20 days (Median)	21 days (Median)	29 days (Median)	25 days (Median)
Czech Republic*	weeks not months	weeks not months	weeks not months	weeks not months	weeks not months
France	26 days	-	-	20 days	-
Germany	7 days	7-14 days	7-14 days	7-14 days	7-14 days
Iceland*	1-4 days	1-4 days	1-4 days	1-4 days	1-4 days
Israel	Radiotherapy: 15- 45 days	Radiotherapy: 15- 45 days	Radiotherapy: 15-45 days	Radiotherapy: 15-45 days	Radiotherapy: 15- 45 days
Japan*	same day-weeks	same day-weeks	same day-weeks	same day- weeks	same day-weeks
Korea	31.1 days	19.2 days	51.3 days	38.7 days	48.7 days
Luxembourg*	< 3 days	< 3 days	< 3 days	< 3 days	< 3 days
Latvia	30 days (Median)	30 days	30 days	30 days	30 days
Malta*	weeks not months	weeks not months	weeks not months	weeks not months	weeks not months
Netherlands	25 days	15 days	10-50 days (up to 1st treatment for rectum or colon cancers)	21 days	approx. 40 days
Norway*	2-4 weeks	-	-	-	-
Poland	3-12 weeks	3-6 weeks	4-8 weeks	4-6 weeks	4-6 weeks
Scotland	24 days	-	23 days	25 days	-
Slovak Republic	7-21 days	7-21 days	7-21 days	7-21 days	7-21 days
Slovenia*	3-6 months	3-6 months	2 months	2 months	-
Sweden	19 days	weeks not months	weeks not months	weeks not months	weeks not months

Governance

- Approximately one quarter of differences in cancer survival may be explained by governance.
- Key explanatory variables:
 - NCCP fully implemented, or
 - cancer specific targets,
 - stewardship,
 - timeframes,
 - monitoring,
 - guidelines,
 - case management,
 - coordination,
 - quality assurance.

tional Cancer Control Plan

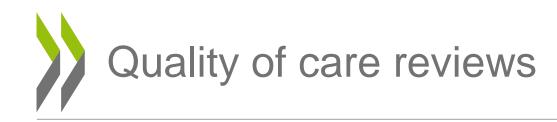
National Cancer Control Plans and national health policies with a focus on cancer care, introduction years

1996 1997 1998 1999	NOR	KOR	ISR	AUS]		National cancer control plans/strategies Specific cancer policies National
2000		IRL	LUX	CHL	SVN]	
2001	DNK	PRT	ISL	SVK		=	
2002							
2003	FRA	KOR	ESP	HUN			
2004	CZE	JPN	NLD	PRT			
2005	DNK	HUN	POL	ISR			
2006	ITA	NOR	ESP				
2007	CAN	DNK	ENG	EST	IRL	POL	PRT ISL
2008	BEL	DEU	SCT	LUX			
2009		ESP	SWE	TUR			
2010	MLT	SVN					

- <u>Higher performers</u> focuse mainly on good **governance** and **resource** input.
- <u>"Underperformers"</u> countries exhibit issues evenly in the areas of **governance** and **process quality**.
- Governance of cancer control is likely to be of relevance to all countries: **better-performers** have cancer policy priorities, implemented key elements of cancer control, introduced integrated care processes and actively worked on the delivery of cancer services.



HEALTH CARE QUALITY REVIEWS



- What works and does not work in improving quality.
- Key objectives :
 - Benchmarking country efforts on quality policies
 - Providing advice on reforms to improve quality of care
 - Highlighting best practice policies
- Review countries: South Korea, Israel, Denmark, Sweden, Turkey, Czech Republic, Italy, Australia (England under discussion)
- Plan to produce a final report of lessons learnt.



All reviews have a chapter covering policies to monitor and improve quality

- Legal frameworks on quality of care (professionals, technologies, patients)
- Inputs
 - Professional certification/licensing and re-certification
 - Accreditation and quality assessment for health care organisations
 - Quality and safety of devices and pharmaceuticals

Monitoring and standardisation

- National audit studies
- (national) practice guidelines
- (national) performance reports on quality of care
- Quality Indicators
- Systematic measurement of patient experiences
- Public reporting of performance

Improvement

- Quality systems within organisations
- Financial incentives for quality
- Clinical pathways within and between services
- National patient safety programmes
- National quality improvement programme



Quality Reviews: Key topics

	Korea	Israel
Strengths and challenges	 Fastest increase in health expenditure amongst OECD Acute-centric hospital system World leading health IT infrastructure 	 Strong community care system Inequalities between regional and ethnic groups Quality shortfalls in the hospitals sector
Topics of focus	 Financing reform to deliver more appropriate hospital services Strengthening primary care The quality of cardiovascular care 	 Primary and community care Tackling health inequalities The quality of care for diabetes and care coordination



No country performs better on all measure of primary care quality

Indicators of quality of primary care:

	Asthma hospital admission rates	COPD hospital admission rates	Uncontrolled diabetes hospital admission rates	Diabetes long- term complications admission rates	Congestive
Denmark	36.5	276.8	65.4	61.3	157.4
Israel	68.4	233.5	7.0	68.6	240.1
Korea OECD	101.5	221.9	127.5	209.1	106.2
average	51.8	198.4	50.3	106.6	227.7



Primary care arrangements differ

- Israel primary care characterised by community based services organised into multi-doctor clinics
- Denmark has well-established primary care professionals
- Korea: no primary care 'system' as in many other countries, patients access acute services easily



But share common challenges

- Attracting primary care physicians
- Embracing a new organisational model to respond to demographic pressures
 - Based on larger organisational units
 - With up-to date skills
 - With comprehensive information systems in primary care
 - With well developed quality initiatives in primary care
 - Delivering prevention and coordination



Ready for this new practice model?

	Denmark	Israel	Korea
GP as a specialisation	YES, but supply	YES, but a large	YES but few
in doctors' training	of GPs below	share of GPs	doctors choose
	OECD average	heading for	family medicine and
		retirement in	financial incentives
		Israel	favour acute care
Size of practice	Mostly solo	3.4 general	Mostly individually
	practice	practitioners,	owned clinics,
Primary care doctor	FFS and	Salary (Clalit),	Fee-for-Service
remuneration	capitation	contracting and	
		FFS health funds	
Out-of-office	Yes	Yes	Limited
availability of doctors			
Nurses in advance	No	Yes	Limited
practice roles			
Gatekeeping	Strong	Strong	Weak
Requirements for	No, but	No	Yes, not mandated
continuing medical	encouraged		
education			



Quality initiatives in primary care most developed in Israel

Asthma

Care

Control medication

Influenza vaccination

Cancer screening

Breast cancer

Colon cancer

Immunisations for older adults

Influenza vaccination

Pneumococcal vaccination

Child and adolescent health

Anemia screening (infants)

BMI assessment (adolescents)

Israel Quality Indicators in Community Healthcare

Cardiovascular health

Primary prevention

- Cholesterol assessment
- Weight assessment
- Blood pressure assessment

Care

- •Use of LDL modifiers
- •Use of ACEI/ARB
- Use of beta blockers

Effectiveness of care

• Cholesterol assessment for cardiac patients

Diabetes

Care

- Glycemic control
- Cholesterol assessment
- Eye care
- Kidney care
- Immunisations
- Blood pressure assessment
- Weight assessment

Effectiveness of care

- Glycemic control
- Cholesterol management
- Blood pressure management



Few systematic initiatives around coordination across pathways of care

- Separate budgets and FFS discourage collaboration and coordination
- Transfer of discharge summaries, diagnostic test and clinical observations still limited
- Few clinical guidelines for managing multiple chronic conditions and points of transitions
- Effectiveness of primary care coordinators roles to be evaluated
- Patient involvement in self-management could be improved



Looking into the future: standardisation of practice and information

- Korea could
 - expand IT infrastructure to primary care
 - monitor preventable admissions and readmission rates
- Israel could
 - Monitor other chronic conditions (e.g., mental health,
 COPD, heat failure) and co-morbidities
- Denmark could
 - Develop measures of effective and safe care around rehabilitation and LTC services delivered by municipalities
- All could develop clinical guidelines for primary care based on multi morbidities



To prepare health professionals for the future, the three countries could

- Further encourage clinical training in PHC
- Denmark already encouraging multidisciplinary municipality health centres
- Formalise peer exchanges through quality circles or continuous medical education
- Extend competences of GPs and nurses to defined clinical area



THANK YOU!