



ΕΘΝΙΚΗ
ΣΧΟΛΗ
ΔΗΜΟΣΙΑΣ
ΥΓΕΙΑΣ
ΥΓΕΙΟΝΟΜΙΚΗ ΣΧΟΛΗ
ΑΘΗΝΩΝ 1929-1994

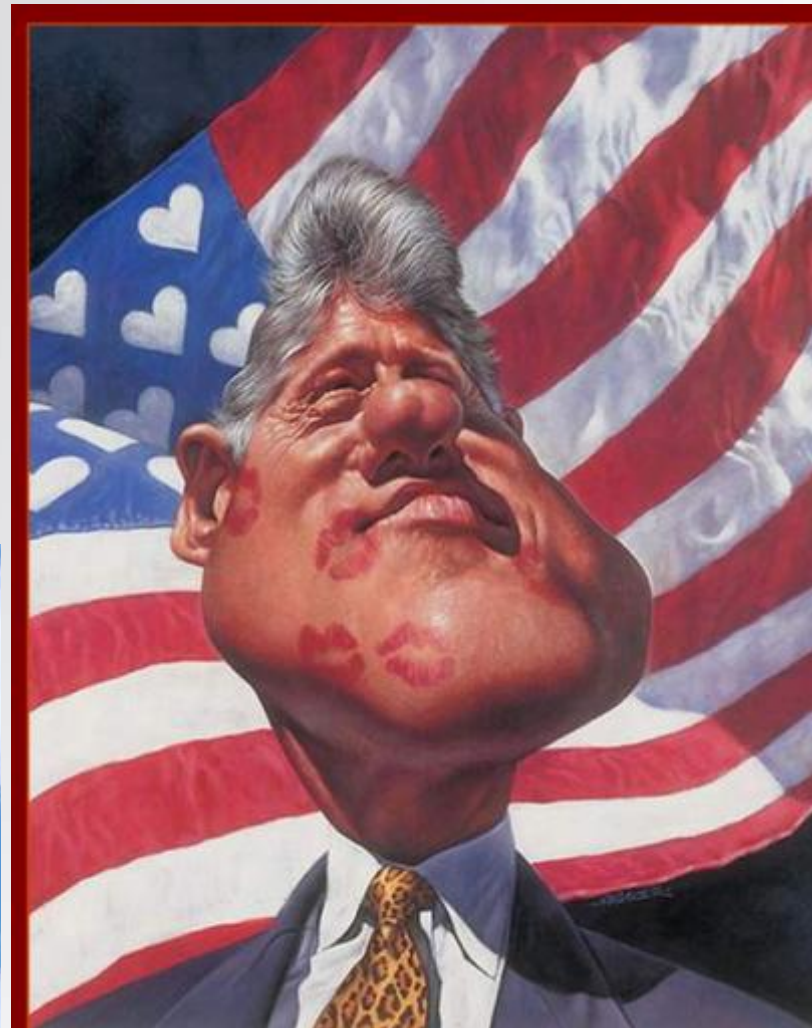
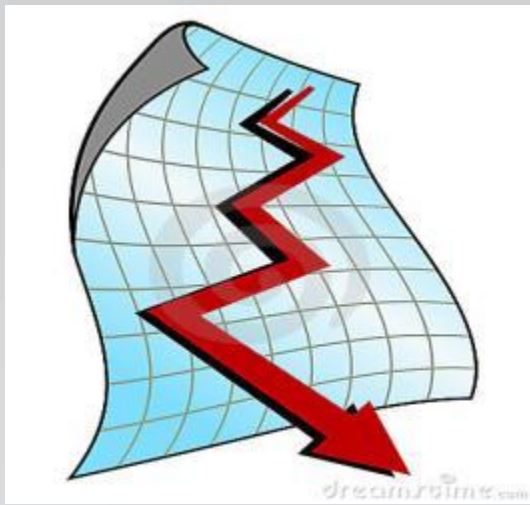


Οι νέες Ρυθμίσεις Στις Υπηρεσίες Υγείας και την Συνταγογράφηση – Σχεδιασμός, Οφέλη, Προβλήματα

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Τομέας Οργάνωσης και Διοίκησης Υπηρεσιών Υγείας
Εθνική Σχολή Δημόσιας Υγείας



Είναι η οικονομία ηλίθε!
ITS THE ECONOMY STUPID!!



Δομή Παρουσίασης

- 
- Διεθνείς Τάσεις στα Οικονομικά και την Οργάνωση του Τομέα της Υγείας

- 
- Συνοπτική Αξιολόγηση του Ελληνικού Συστήματος Υγείας Πριν το Μνημόνιο

- 
- Το Ελληνικό Σύστημα Υγείας και οι Παρεμβάσεις στην Εποχή του Μνημονίου

- 
- Γίνεται να Μετατρέψουμε την Κρίση σε Ευκαιρία? Την Ατυχία σε Καλοτυχία?

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- 
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• Συναρπαστική Ανάλυση του Ελληνικού Συστήματος Υγείας Πριν το Μνημόνιο

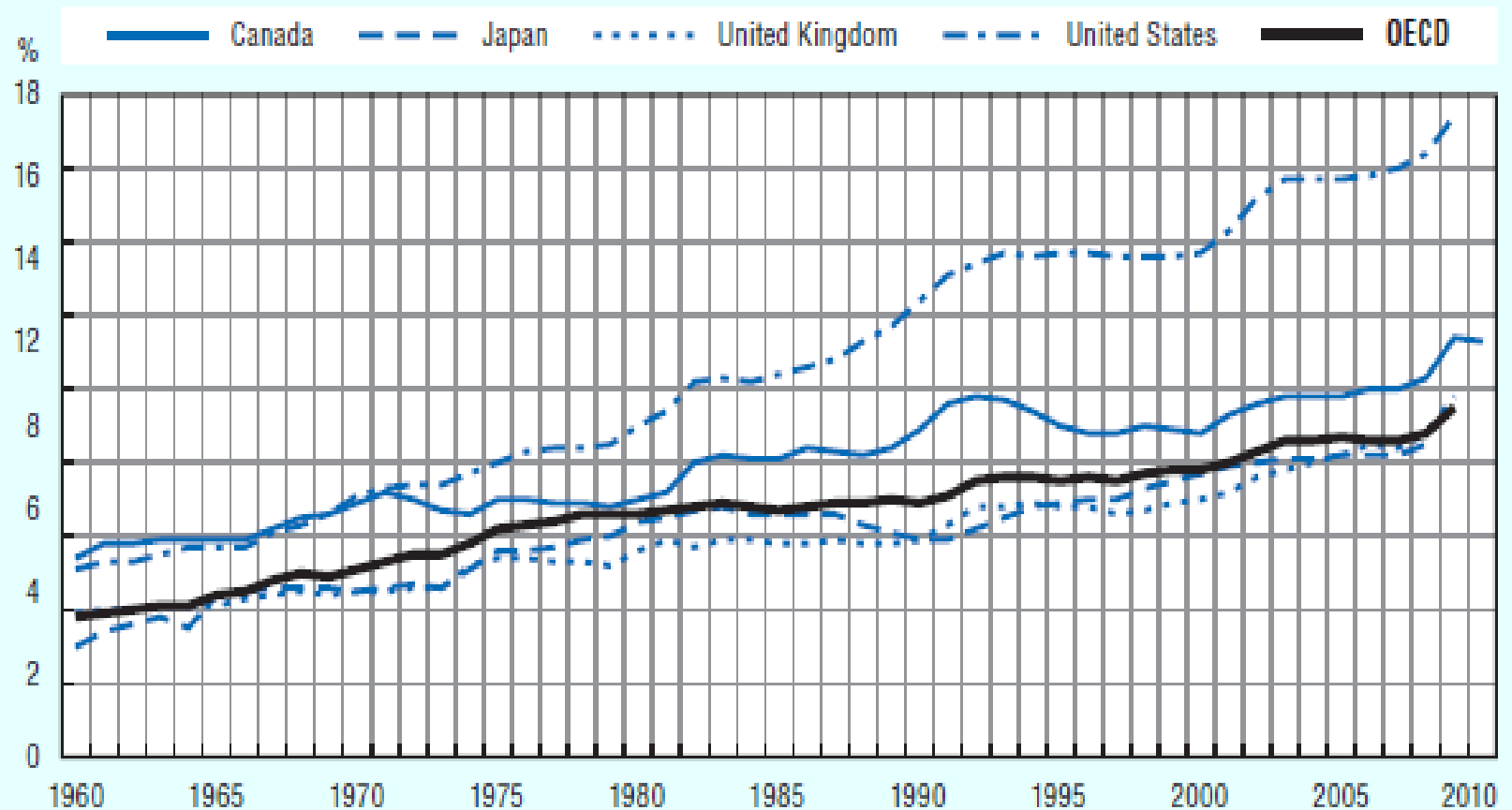


• Το Ελληνικό Σύστημα Υγείας και οι Παρεμβάσεις στην Εποχή του Μνημονίου



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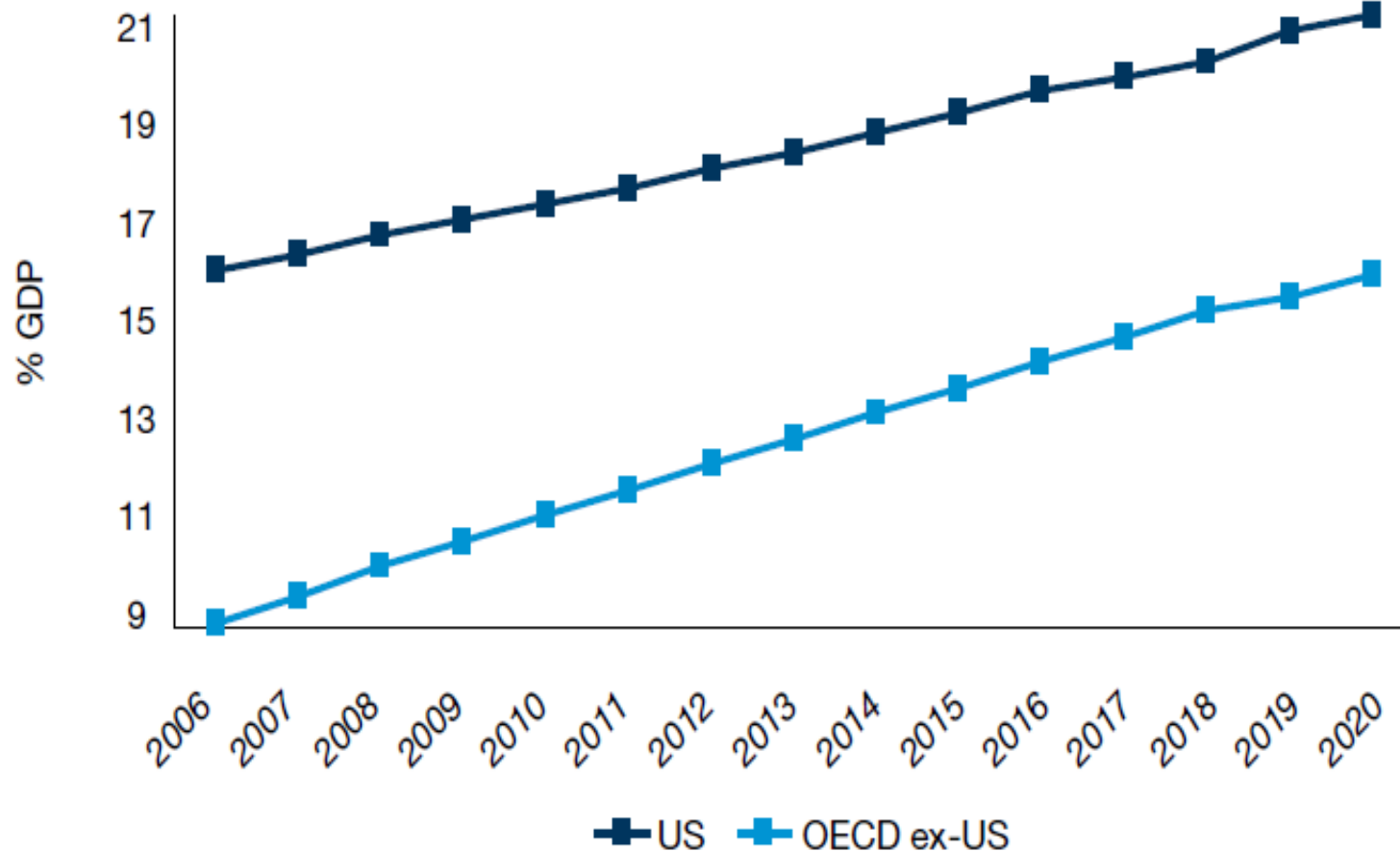
Health expenditure as a share of GDP, 1960-2009, selected OECD countries



Source: OECD Health Data 2011.

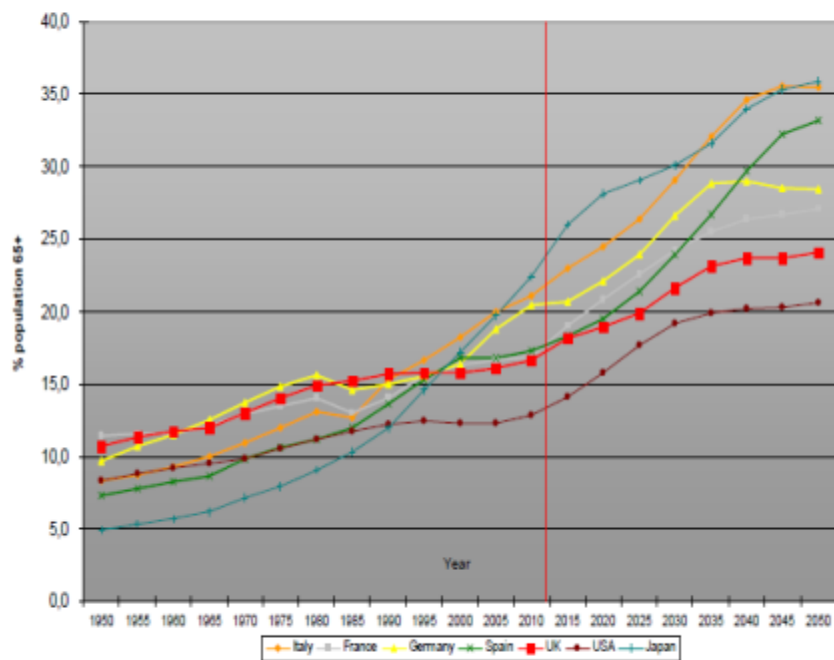
Trends in health care expenditure

Figure 6: Health expenditure as a percentage of GDP is increasing rapidly in the OECD countries



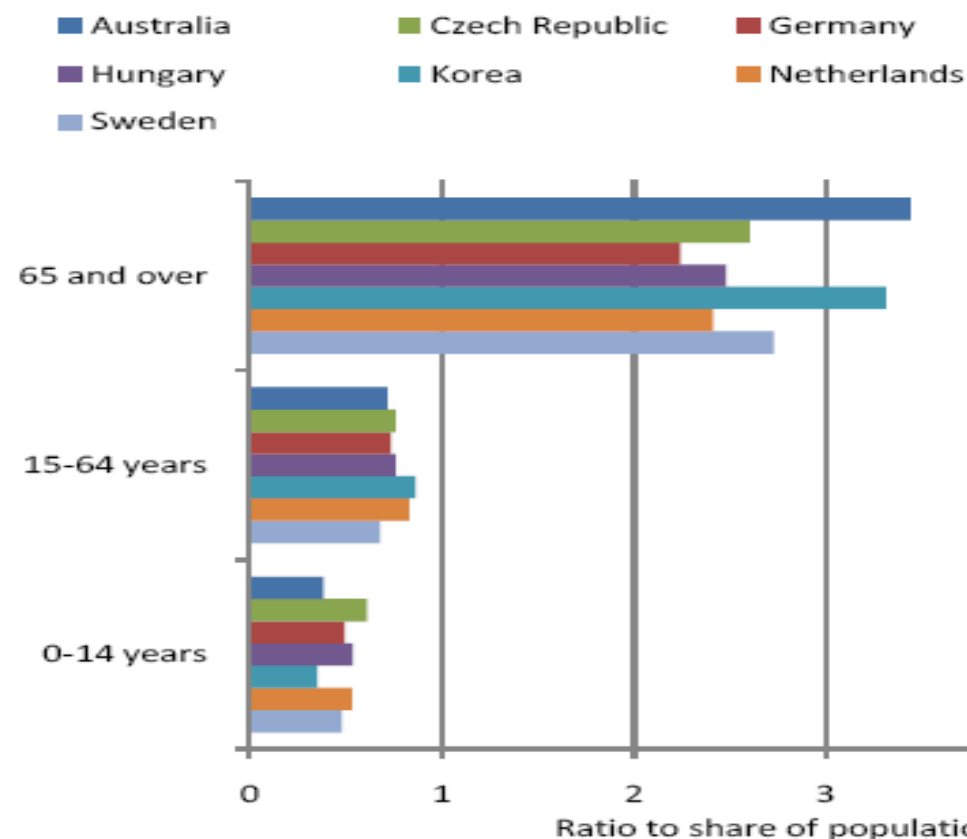
Δημογραφική γήρανση

World population evolution (% of +65)



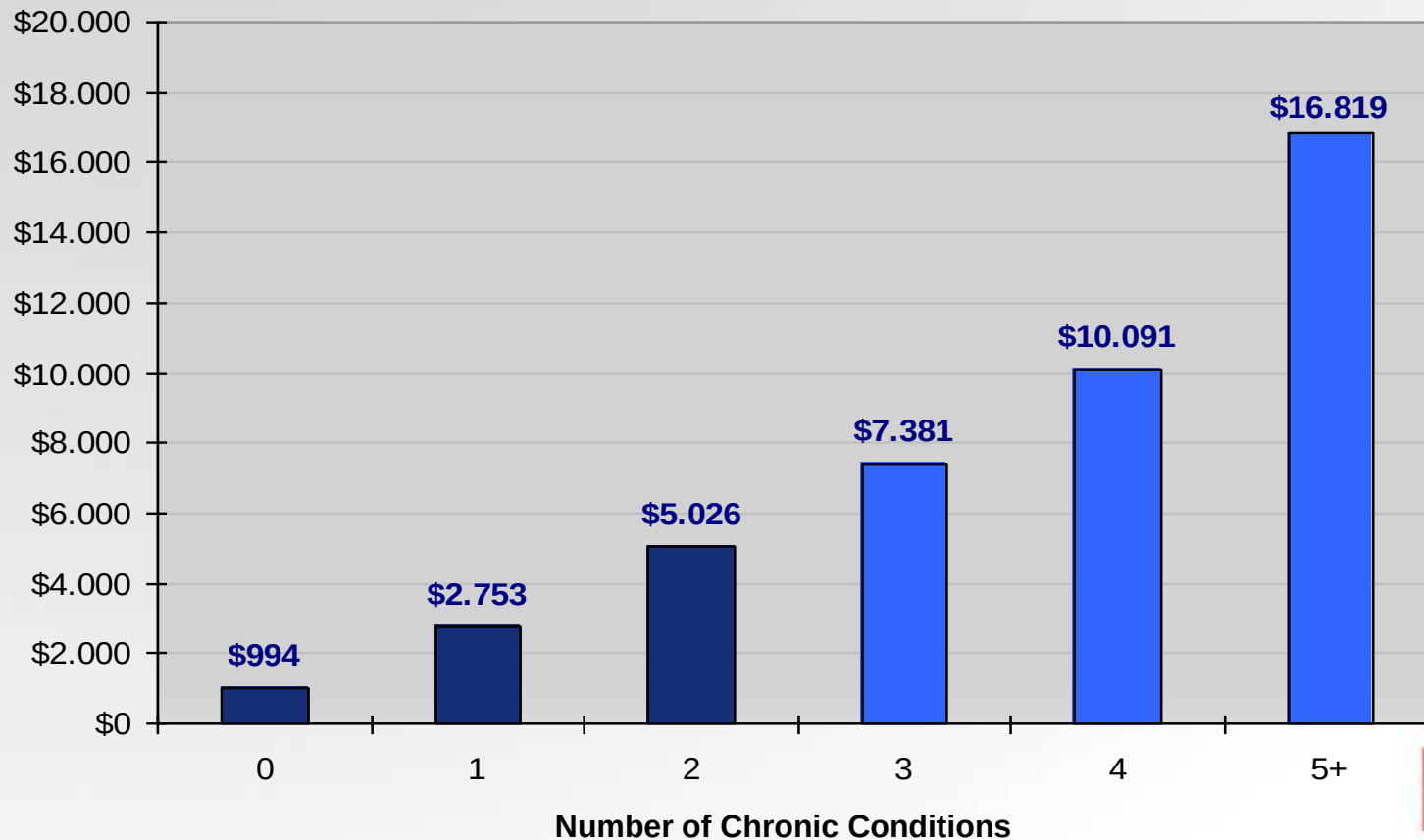
Source: United Nations' Dept Economic & Social Affairs, 2006

Chart 7.5.2. Relative hospital in-patient expenditure by age group



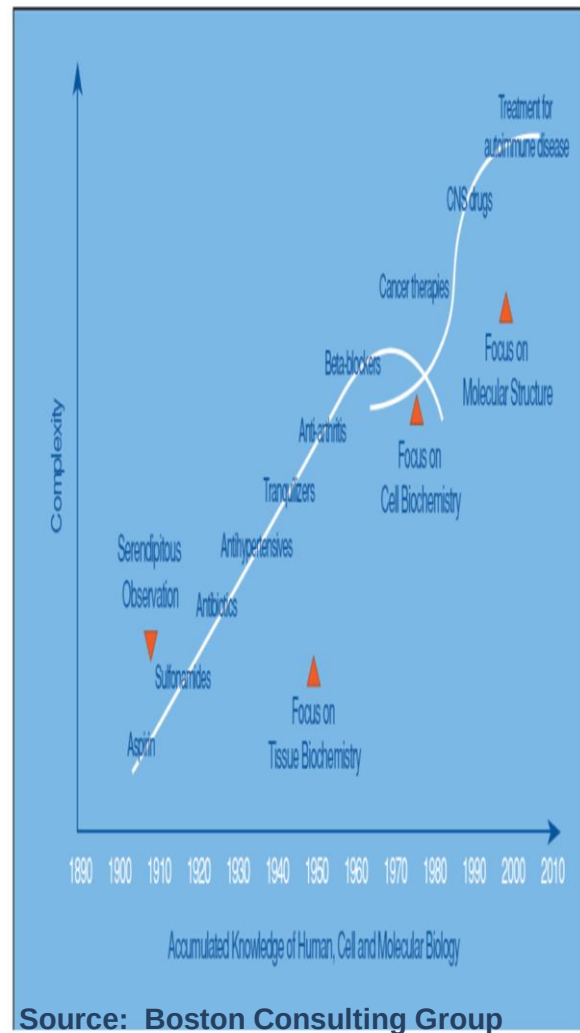
Επίπτωση των χρόνιων παθήσεων

**Average Yearly Per Capita Health Care Spending
for Persons with Chronic Diseases**

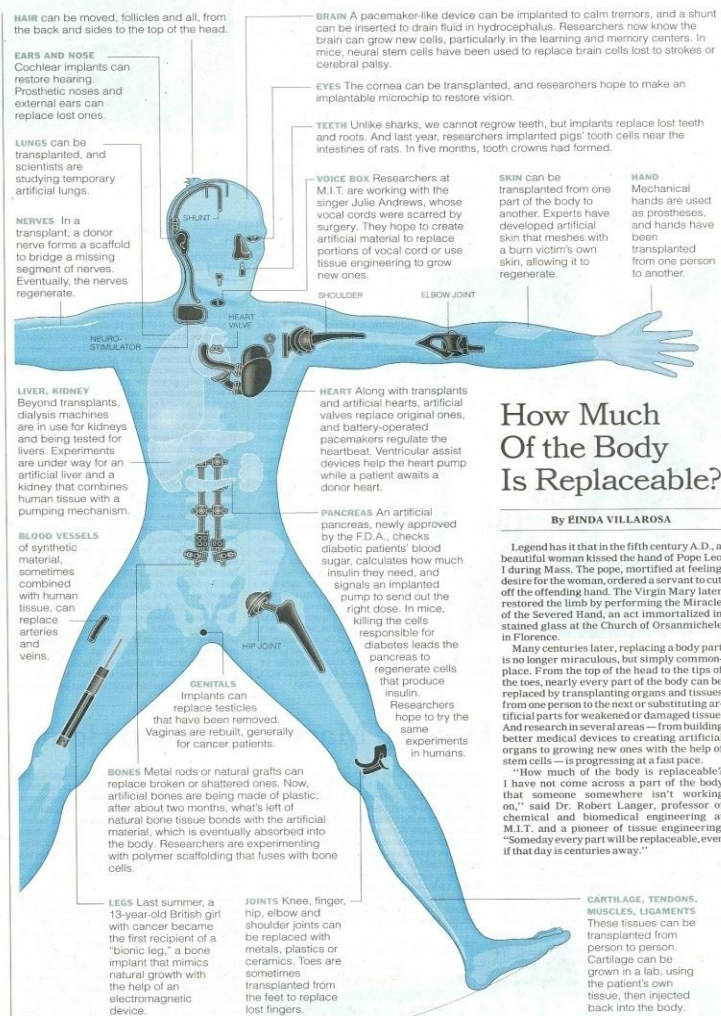


Τεχνολογική επανάσταση

Φάρμακα



Συσκευές



Εξοπλισμός



How Much Of the Body Is Replaceable?

By EINDA VILLAROSA

Legend has it that in the fifth century A.D., a beautiful woman kissed the hand of Pope Leo I during Mass. The pope, mortified at feeling desire for the woman, ordered a servant to cut off the offending hand. The Virgin Mary later restored the limb by performing the Miracle of the Severed Hand, an act immortalized in stained glass at the Church of Orsanmichele in Florence.

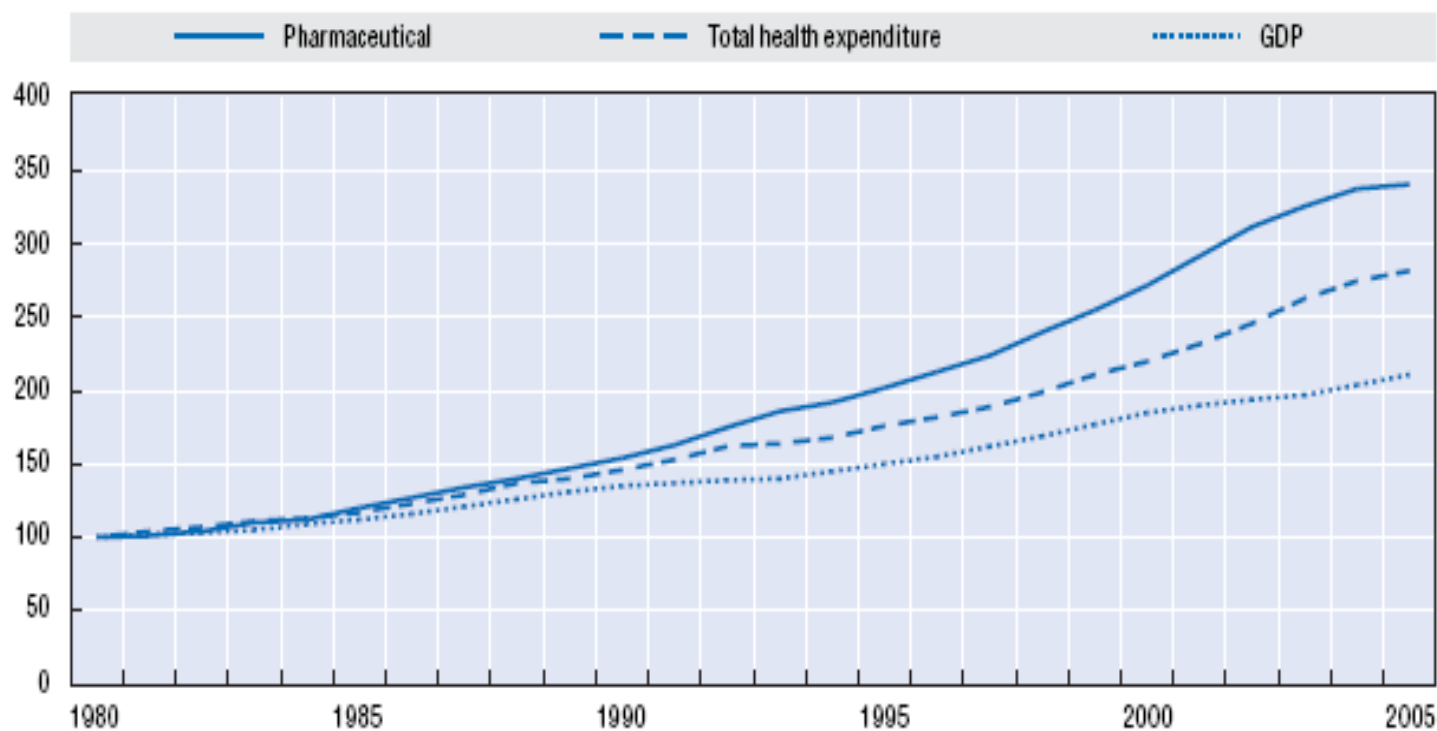
Many centuries later, replacing a body part is no longer miraculous, but simply commonplace. From the top of the head to the tips of the toes, nearly every part of the body can be replaced by transplanting organs and tissues from one person to the next or substituting artificial parts for weakened or damaged tissue. And research in several areas—from building better medical devices to creating artificial organs to growing new ones with the help of stem cells—is progressing at a fast pace.

"How much of the body is replaceable? I have not come across a part of the body that someone somewhere isn't working on," said Dr. Robert Langer, professor of chemical and biomedical engineering at M.I.T. and a pioneer of tissue engineering. "Someday every part will be replaceable, even if that day is centuries away."

Εξέλιξη των Φαρμακευτικών Δαπανών

Figure 1.7. **Trend growth in pharmaceutical and total health expenditure for 15 OECD countries, and GDP, 1980-2005**

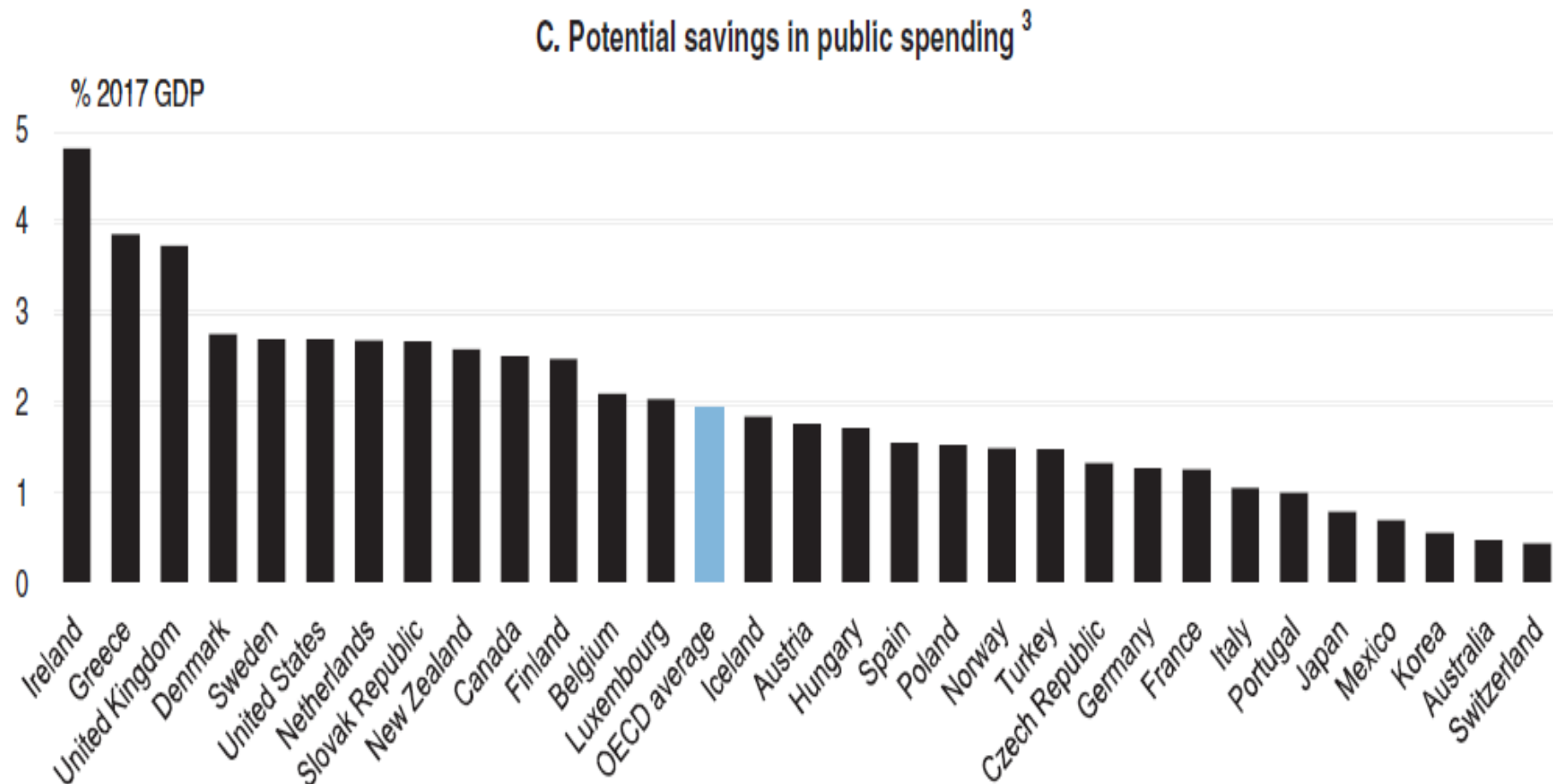
1980 = 100



Note: Indexes were calculated using national currency units at 2000 GDP prices. Pharmaceutical expenditure is excluded from total health expenditure.

Source: OECD Health Data 2007.

Αναποτελεσματικότητα σε μακρο-οικονομικό επίπεδο



3. Potential savings represent the difference between a no-reform scenario and a scenario where countries would become as efficient as the best performing countries.

Source: OECD Health Data 2009; OECD calculations.

Αναποτελεσματικότητα σε επίπεδο ασφάλειας

Workforce
MANAGEMENT

News in Brief

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[Community Center](#)
[Vendor Directory](#)
[Conferences, Commentary & More](#)
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PRINT EDITION

News in Brief: Preventable Medical Errors Still Kill Thousands, Cost Billions as Employers Foot Bill

Preventable Medical Errors Still Kill Thousands, Cost Billions as Employers Foot Bill

Despite a landmark report a decade ago detailing the deadly nature of the U.S. health care system, a consumer group finds that little has been done to prevent errors that cost the nation \$17 billion to \$29 billion and kill as many as 100,000 patients annually.

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May 20, 2009

Preventable Medical Errors Still Kill Thousands, Cost Billions as Employers Foot Bill

Despite a landmark report a decade ago detailing the deadly nature of the U.S. health system, a consumer group said Tuesday, May 19, that little has been done to prevent the errors that still kill as many as 100,000 patients each year—a number that the group said is a conservative estimate.

Consumers Union, which publishes the magazine *Consumer Reports*, published what it called a “review of the scant evidence” of the health system’s efforts to reduce preventable errors that cost the country \$17 billion to \$29 billion annually, a cost borne by the employers that pay for shoddy care.

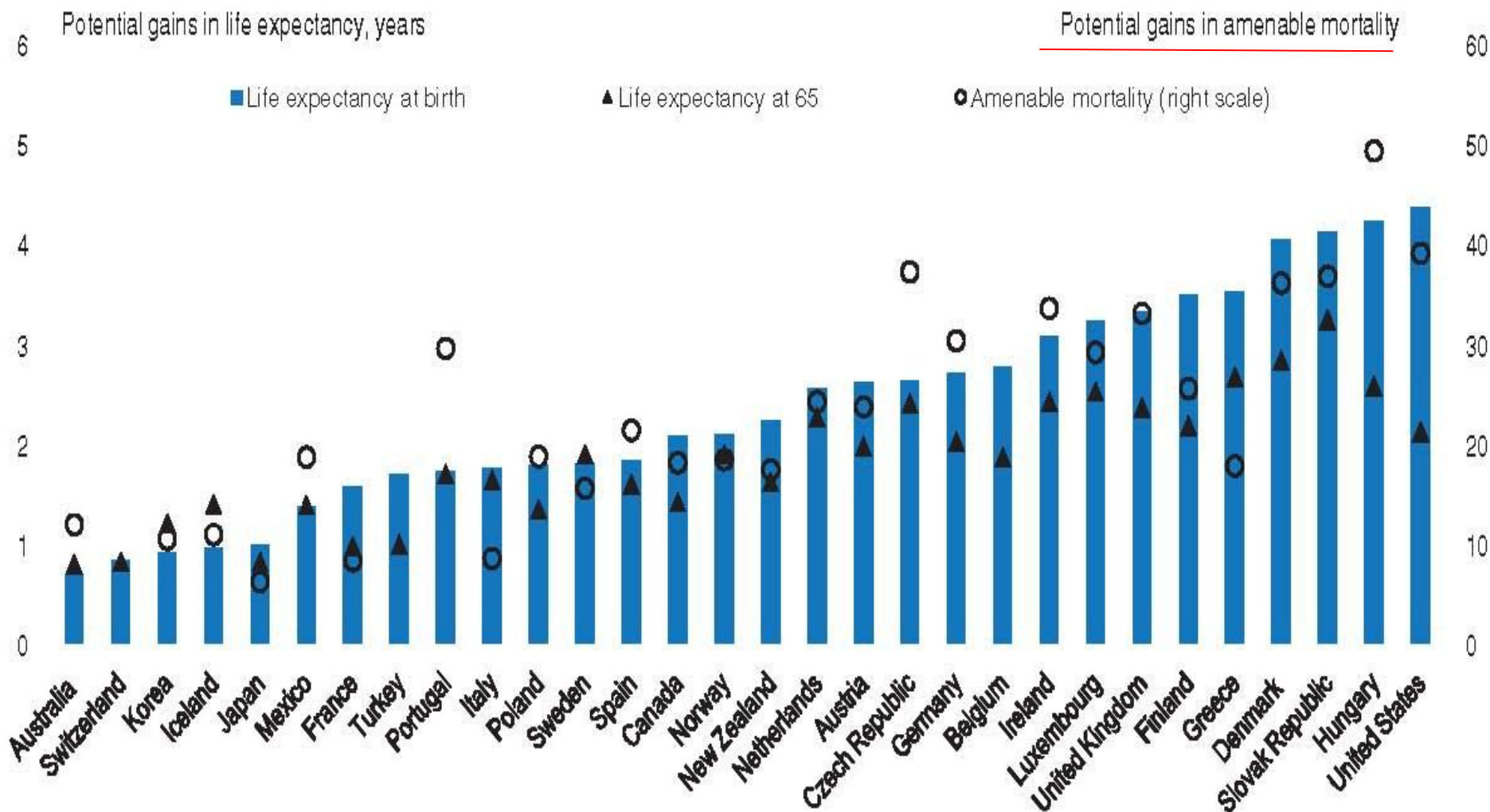
ΕΘΝΙΚΗ
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ΥΠΟΥΡΓΕΙΟ ΕΚΠΑ
ΑΘΗΝΑ 1527-1534

Monitor
Independent Regulator
of NHS Foundation Trusts

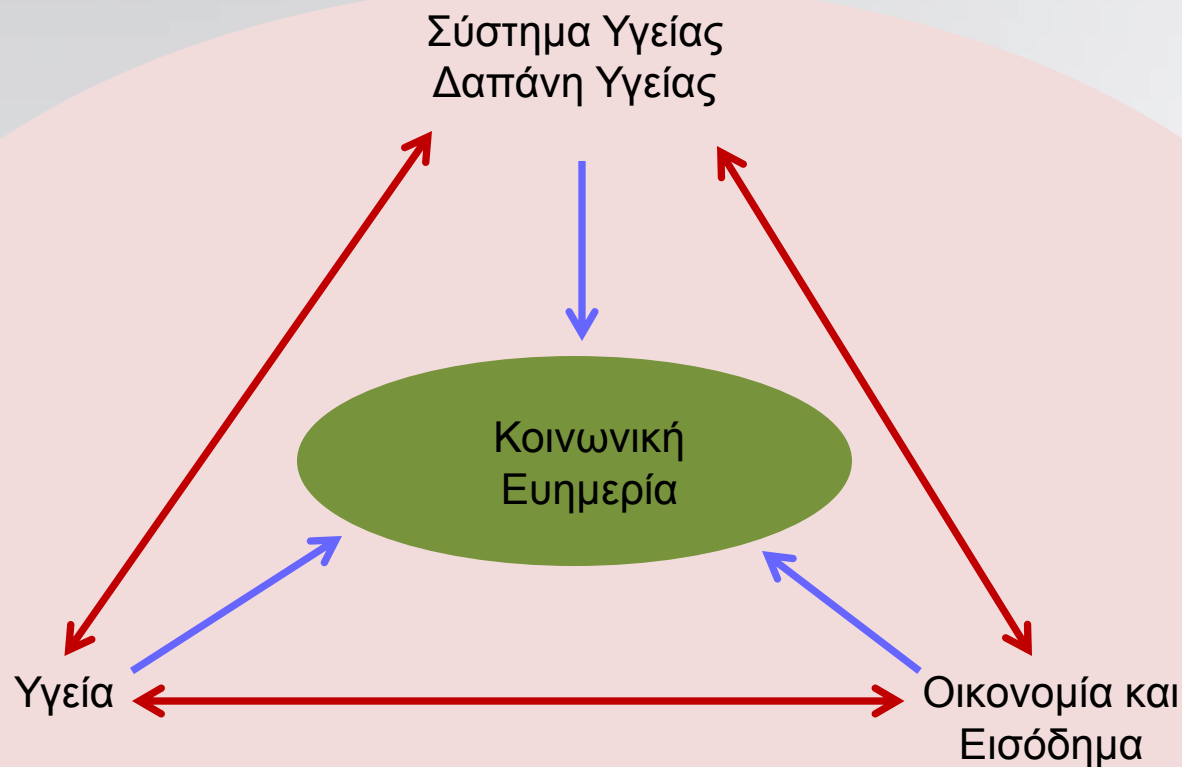


1. Flying would be much safer
2. There would be a crash every week
3. There would be 100,000 passengers killed per year
4. **There would be 17 crashes per day and 600,000 deaths per year**

Αναποτελεσματικότητα στην βελτιστοποίηση των υγειονομικών αποτελεσμάτων



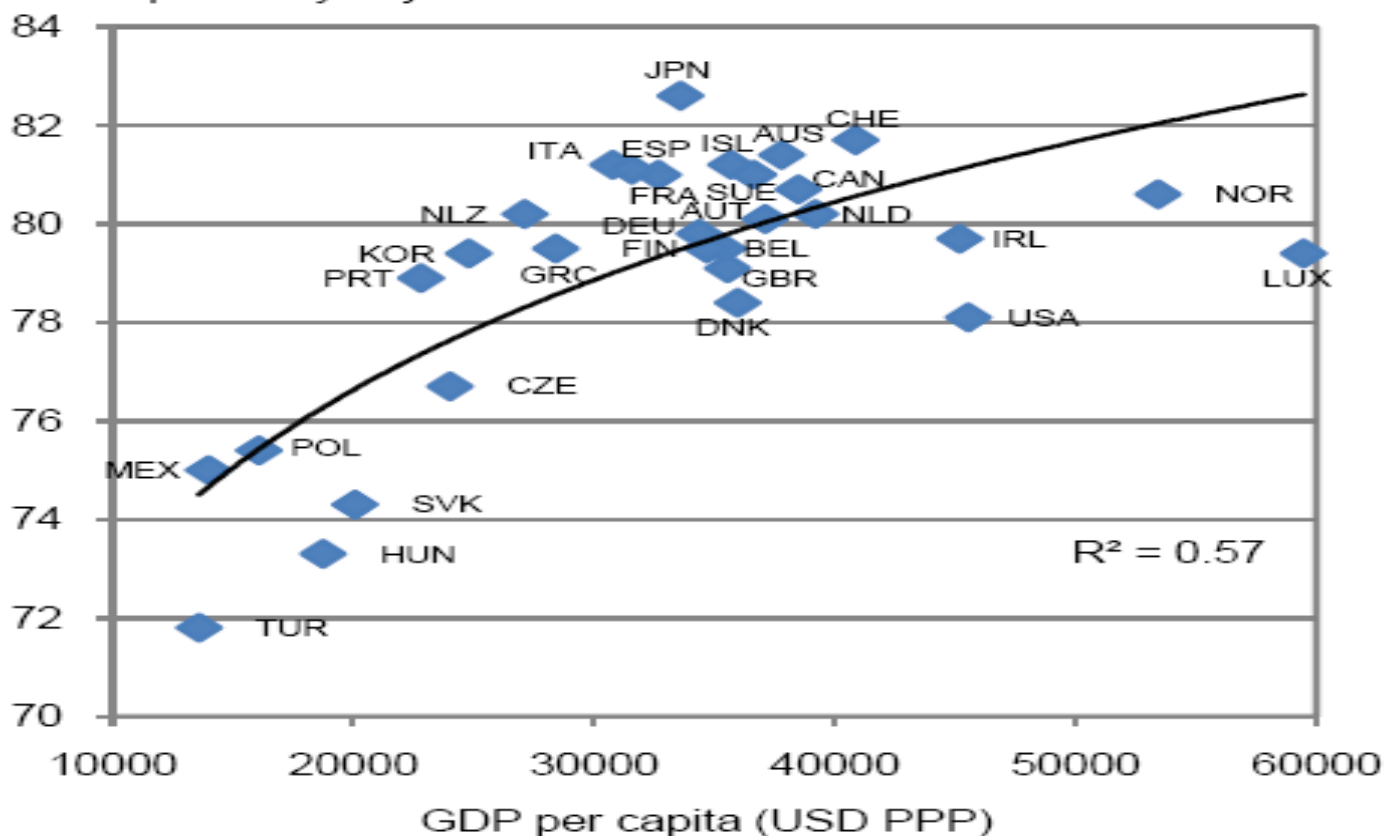
Η σχέση ανάμεσα στο σύστημα υγείας, τον πλούτο, την υγεία και την κοινωνική ευημερία



Η σχέση ανάμεσα στο Εισόδημα και την Υγεία (προσδόκιμο ζωής)

1.1.3. Life expectancy at birth and GDP per capita, 2007 (or latest year available)

Life expectancy in years

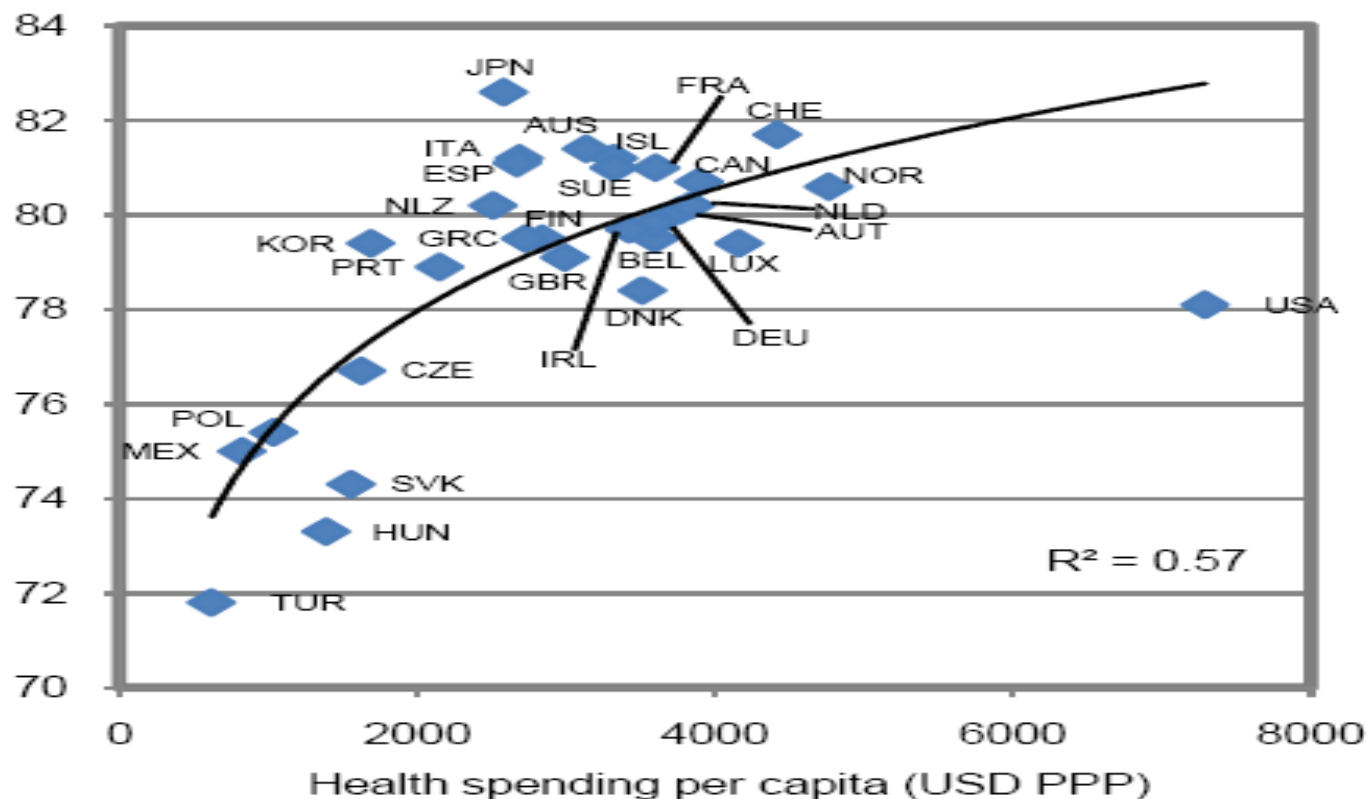


Source: OECD Health Data 2009.

Η σχέση ανάμεσα στις δαπάνες υγείας και την υγεία (προσδόκιμο ζωής)

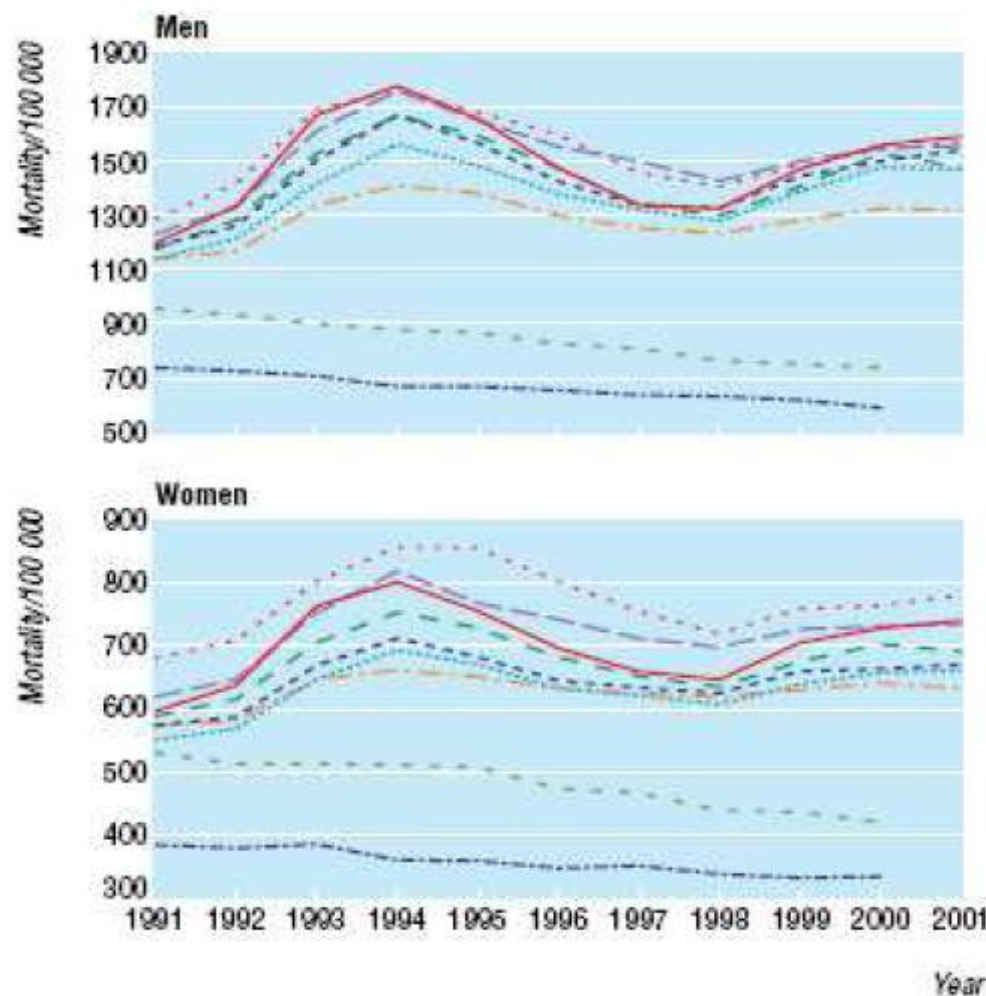
1.1.4. Life expectancy at birth and health spending per capita, 2007 (or latest year available)

Life expectancy in years



Source: OECD Health Data 2009.

Οικονομική κρίση και δείκτες υγείας



Θνησιμότητα
στην Ρωσία
1991-2001
ανά φύλο
(στη βάση των
διαγραμμάτων η
θνησιμότητα της
Τσεχίας και
Φινλανδίας)
T Men, BMJ 2003.

Greek Tragedy?

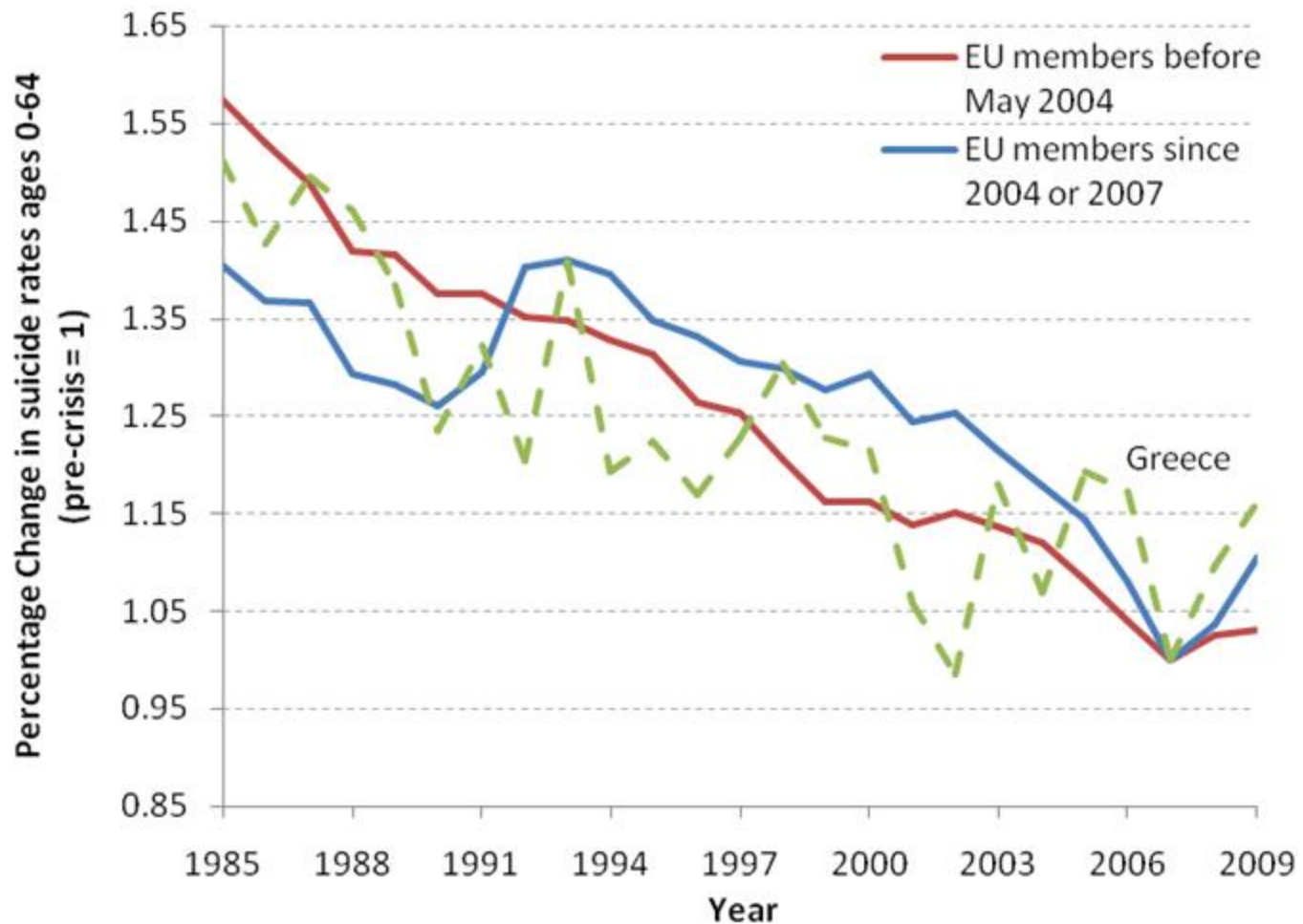
- 52% rise in HIV infections
- 10-fold rise in HIV from injection drug use
- 15% rise in people not going to the doctor despite feeling it was necessary
- 39% less likely to access to sickness benefits
- 20% rise in heroin use
- ~100% rise in homicides and theft rates
- ~60% reported increase in suicides

Source: Kentikelenis A, Karanikolos M, Papanicolas I, Basu S, McKee M, Stuckler D.

Health effects of financial crisis: omens of a Greek tragedy. Lancet 2011



Pre- and Post-Crisis



Greece: Unmet Need

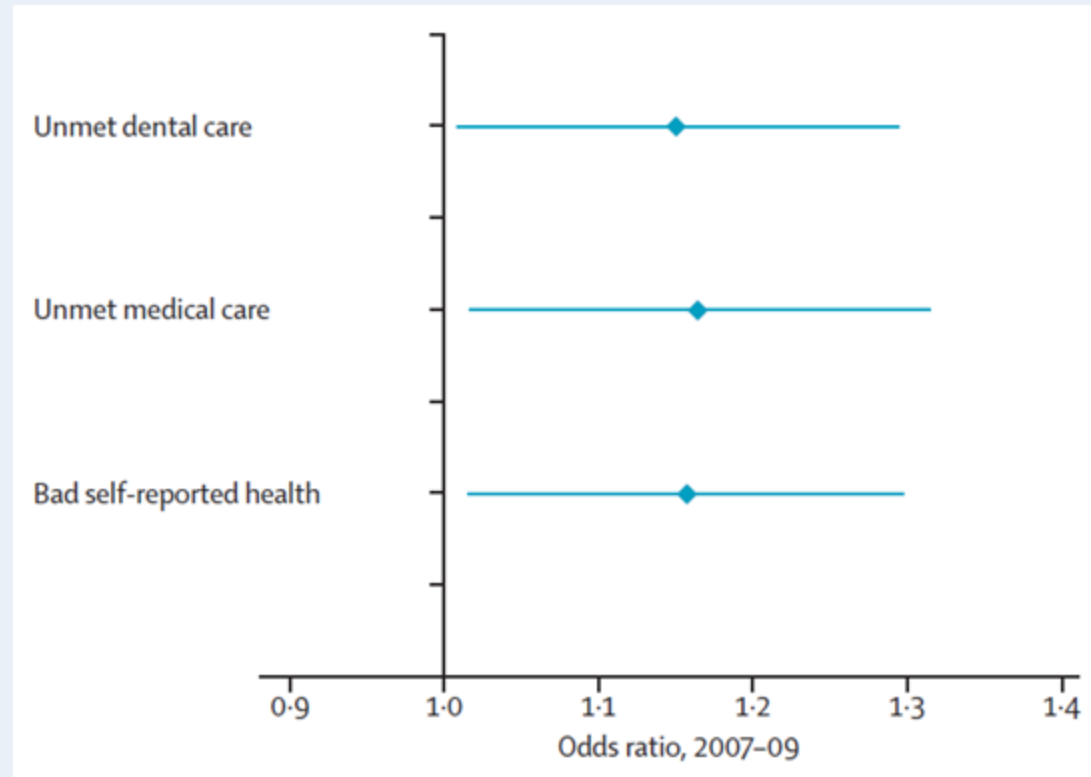
(people who need care but do not get it)

-15% rise in people not going to the doctor despite feeling it was necessary

-39% less likely to access to sickness benefits

-24% rise in public hospital admissions between 2009 and 2010

-25% reported decline in private hospital admissions



Source: Kentikelenis A, Karanikolos M, Papanicolas I, Basu S, McKee M, Stuckler D. Health effects of financial crisis: omens of a Greek tragedy. Lancet 2011

Μέτρα Αύξησης Αποδοτικότητας Μέσα από τον Έλεγχο της Ζήτησης-Κατανάλωσης Υπηρεσιών

	AT	BE	CY	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	NO	PL	PT	RO	SE	SK	SI	UJ
ΙΑΤΡΟΙ																									
Οδηγίες	X	X		X	X	X		X	X	X	X		X	X	X	X	X	X		X		X	X	X	X
Εκπαίδευση και πληροφορία	X	X		X	X	X		X	X	X		X	X				X	X	X	X	X	X	X	X	X
Έλεγχος συνταγογράφησης	X	X		X	X			X	X	X	X	X	X		X		X	X		X	X	X	X	X	X
Ποσοστώσεις συνταγογράφησης		X		X				X							X			X							
Κλειστοί προϋπολογισμοί								X							X						X	X			X
Οικονομικά κίνητρα	X	X		X				X									X					X			X
ΑΣΘΕΝΕΙΣ																									
Επιμόρφωση	X	X		X	X	X			X	X		X	X				X		X	X	X	X	X		X
Συμμετοχή στο κόστος	X	X		X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X
ΦΑΡΜΑΚΟΠΟΙΟΙ																									
Υποκατάσταση με γενόσημα			X	X	X			X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	
Οικονομικά κίνητρα										X		X	X				X	X							X
Επιστροφές - rebates	X	X											X				X		X						X

Μέτρα Αύξησης της Αποδοτικότητας Μέσα από το Έλεγχο της Προσφοράς Υπηρεσιών

	AT	BE	CY	DE	DK	EE	EL	ES	FI	FR	HU	IE	IT	LT	LV	MT	NL	NO	PL	PT	RO	SE	SK	SI	UJ
ΤΙΜΟΛΟΓΗΣΗ																									
Με βάση κλινικά δεδομένα	X	X						X	X	X		X	X		X				X	X			X		
Με βάση οικονομική αξιολόγηση	X	X				X			X			X	X		X					X		X	X	X	
Με αναφορά σε άλλες τιμές	X	X				X		X	X	X	X	X	X		X					X					
Με βάση το κόστος παραγωγής							X	X																	
Με βάση τιμές σε άλλες χώρες	X	X	X			X	X	X	X	X	X	X		X			X	X	X	X	X		X	X	
Controlled price updates		X					X	X	X				X	X	X					X	X		X	X	X
ΕΛΕΓΧΟΣ ΔΑΠΑΝΗΣ																									
Rebates και εκπτώσεις	X			X			X	X		X	X	X	X								X				
Επιστροφές		X								X	X		X							X	X				X
Συμφωνίες price-volume						X				X	X				X			X		X		X	X		
Πάγωμα – μειώσεις τιμών		X					X	X	X	X		X	X					X		X					X
ΑΠΟΖΗΜΙΩΣΗ																									
Με τιμές αναφοράς		X		X	X	X	X	X			X		X	X	X		X		X	X	X		X	X	
Θετικές λίστες	X		X		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Αρνητικές λίστες				X					X		X							X							X
Οικονομική αξιολόγηση	X	X			X	X			X		X	X	X	X	X	X	X	X	X	X		X	X	X	

Νέα κριτήρια αξιολόγησης των παρεμβάσεων μας στο τομέα της Υγείας

Αποτελεσματικότητα, Ασφάλεια, Ποιότητα

- Για να αποφασίσουμε με καθαρά κλινικούς όρους που να επενδύσουμε τα χρήματα που διαθέτουμε για την υγεία

Κόστος

- Για να ξέρουμε πόσο στοιχίζει πραγματικά, και τις επιπτώσεις έχει στο σύστημα υγείας και ασφάλισης. Ένα φάρμακο π.χ. μπορεί να στοιχίζει, αλλά μπορεί να μειώνει την νοσηλεία ή την χρήση άλλων φαρμάκων

Κόστος / Αποτελεσματικότητα

- Για να ξέρουμε ένα αξίζει να επενδύσουμε στο φάρμακο, να κάνουμε επιλογές ανάμεσα σε εναλλακτικά φάρμακα, και να βελτιστοποιούμε τις συνθήκες χρήσεως τους

Προϋπολογισμός

- Για να εκτιμήσουμε τις επιπτώσεις της επιλογής συγκεκριμένων φαρμάκων στον συνολικό προϋπολογισμό μας, ανάλογα με τα διάφορα σενάρια διεξόδου του

Table 33. Use of HTA (Q62)

Country	Structure and capacity for health technology assessment	Cost-effectiveness and affordability taken into account in HTA	New medicine			New procedure			New high-cost equipment		
			Coverage	Reimbursement or price	Guidelines	Coverage	Reimbursement or price	Guidelines	Coverage	Reimbursement or price	Guidelines
Australia	Yes	Yes	X	X	X	X	X	X	X	X	X
Austria	Yes	Yes	X	X							
Belgium	Yes	Yes	X	X	X	X		X	X		
Canada	Yes	Yes	X	X	X				X	X	X
Czech Republic	No	-									
Denmark	Yes	Yes	X	X	X	X	X	X	X	X	X
Finland	Yes	Yes	X	X	X			X			
France	Yes	No	X	X		X	X		X		X
Germany	Yes	n.a.									
Greece	No	-									
Hungary	Yes	Yes	X			X			X		X
Iceland	Yes	n.a.	X								
Ireland	Yes	Yes	X								
Italy	Yes	n.a.									
Japan	Yes	Yes	X	X		X	X		X	X	
Korea	Yes	Yes	X	X		X					
Luxembourg	No	-									
Mexico ⁽¹⁾	Yes	Yes	X	X	X	X		X	X		X
Netherlands	Yes	Yes	X	X	X	X	X	X	X	X	X
New Zealand	Yes	Yes	X	X	X	X			X	X	
Norway	Yes	Yes	X		X	X		X	X		X
Poland	Yes	Yes	X	X		X		X	X		
Portugal	Yes	Yes	X	X	X			X			X
Slovak Republic	No	-									
Spain	Yes	Yes		X		X		X	X		X
Sweden	Yes	Yes	X	X	X						
Switzerland	Yes	Yes	X			X					
Turkey	No	-									
United Kingdom	Yes	Yes	X					X			X

Note (1): In Mexico, the use of HTA is yet limited.

Note: n.a. means Not Available; "-" Not Applicable.

Source: OECD Survey on health system characteristics 2008-2009.

Συμπεράσματα I

- Η βιωσιμότητα των υγειονομικών συστημάτων μακροπρόθεσμα απειλείται εξαιτίας
 - Των δημογραφικών τάσεων
 - Των τεχνολογικών εξελίξεων
 - Την διοικητικής ανεπάρκειας μας
 - Της εξάρτησης τους από τα δημόσια οικονομικά
 - Των δημοσιοοικονομικών κρίσεων
- Στα πλαίσια αυτά έχει οργανωθεί σε μικρο-επίπεδο μια σειρά από παρεμβάσεις με στόχο την αύξηση της αποδοτικότητας στα περισσότερα υγειονομικά συστήματα

Δομή Παρουσίασης



• Διευκρίνιση στα Οικονομικά και την Οργάνωση του Τομέα της Υγείας



- Συνοπτική Αξιολόγηση του Ελληνικού Συστήματος Υγείας Πριν το Μνημόνιο



• Το Ελληνικό Σύστημα Υγείας και οι Παρεμβάσεις στην Εποχή του Μνημονίου



• Γίνεται να Μετατρέψουμε την Κρίση σε Ευκαιρία? Την Ατυχία σε Καλοτυχία?

Chart 7.1.2. Annual average growth rate in real health expenditure per capita, 1997-2007

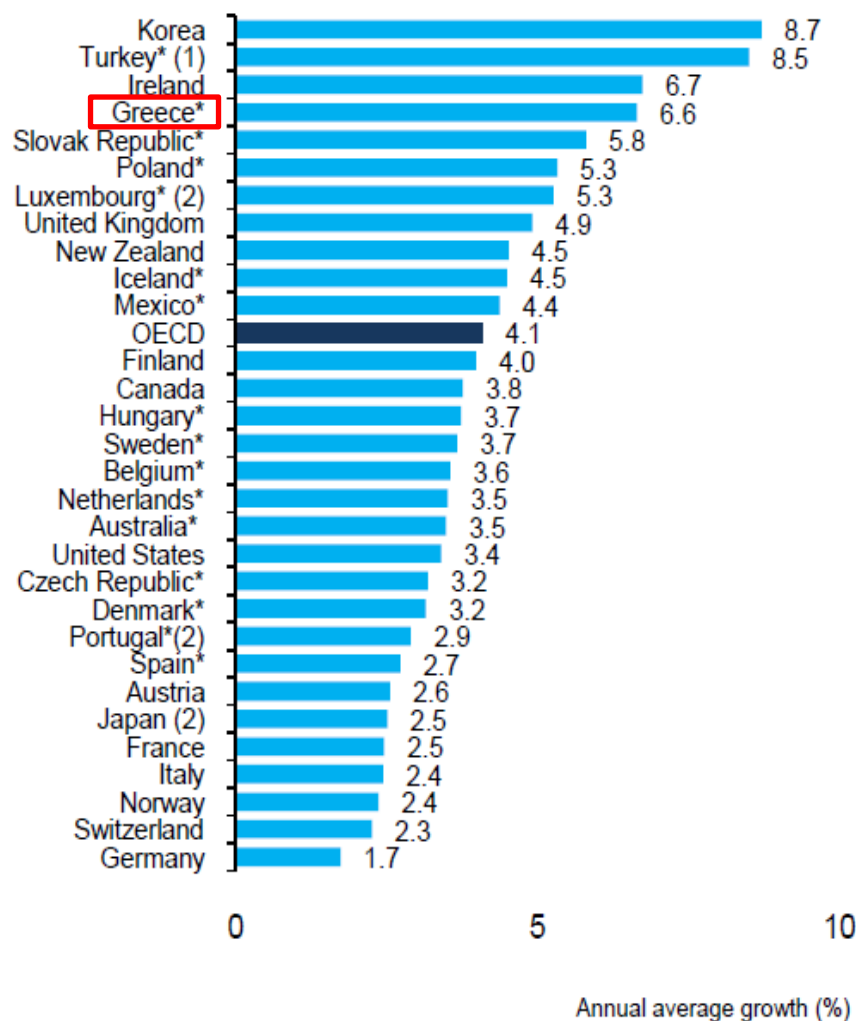
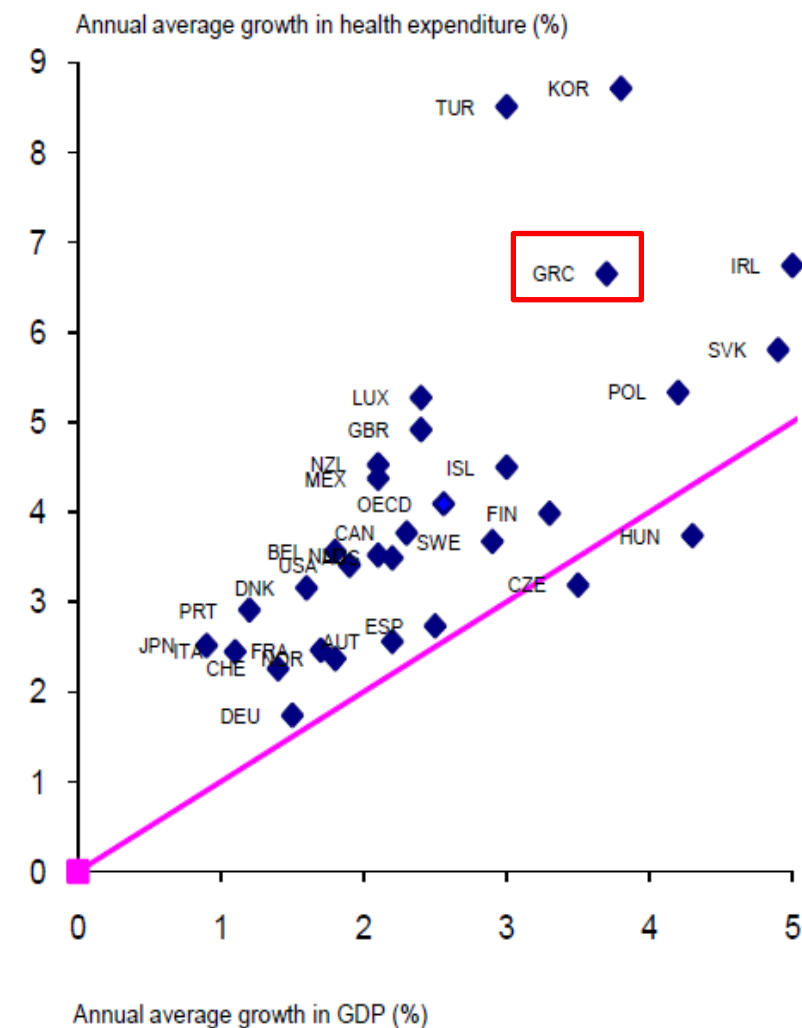


Chart 7.1.3. Annual average growth in real per capita expenditure on health and GDP, 1997 to 2007

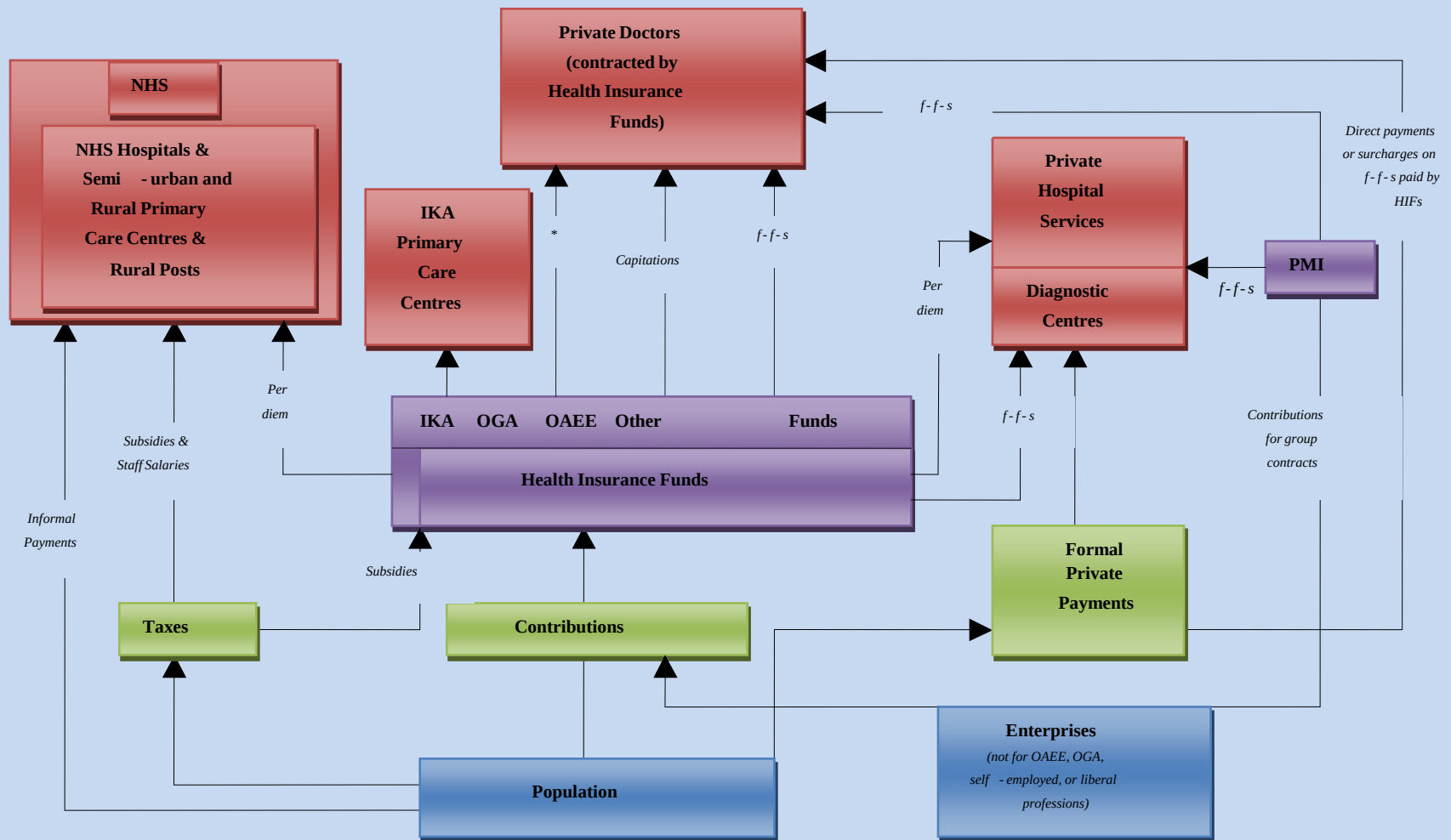


1. 1997-2005. 2. 1997-2006.

* Growth rates adjusted. See box "Definition and deviations".

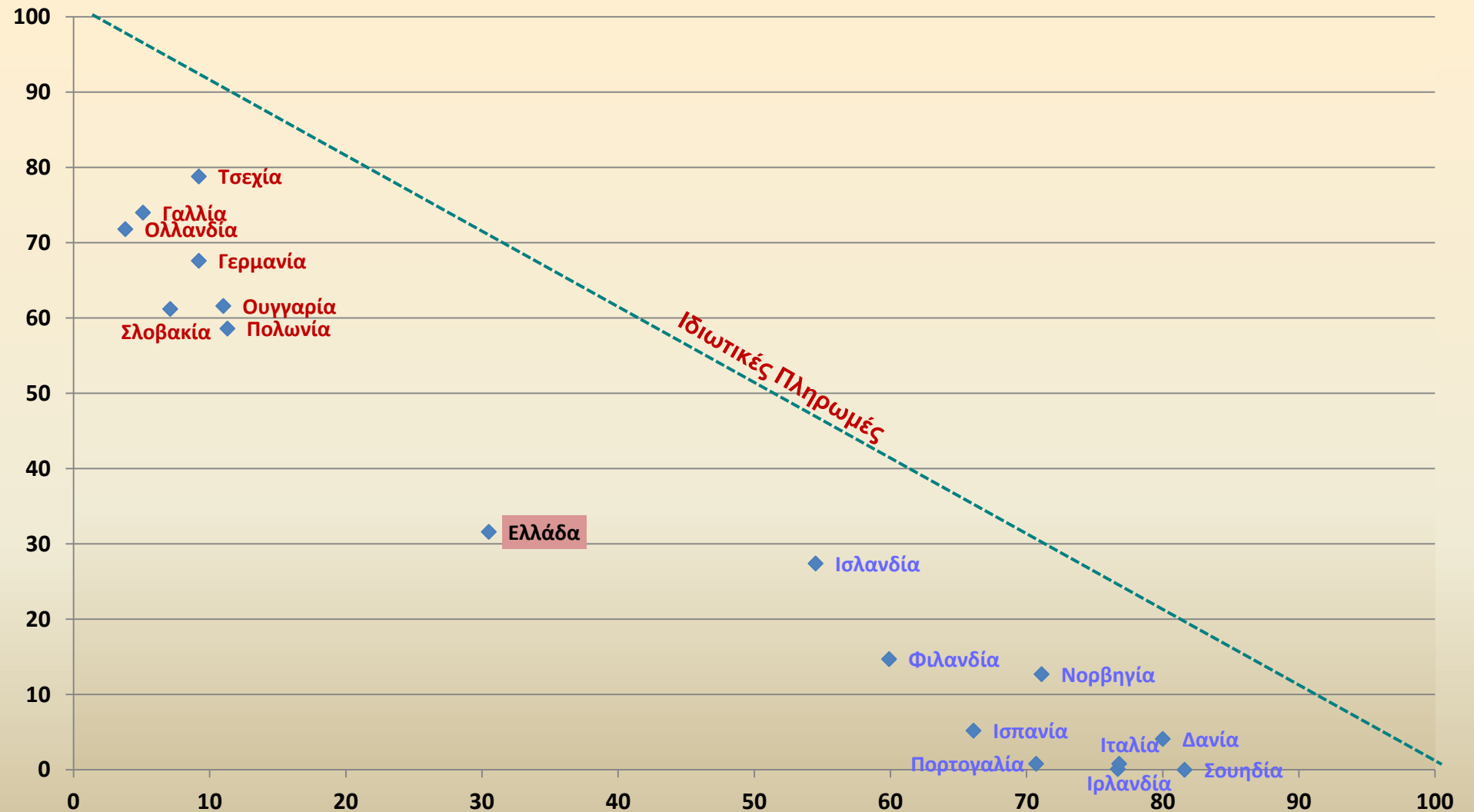
Source: OECD Health Data 2009.

One the most complex and bureaucratic HC systems in the in EU

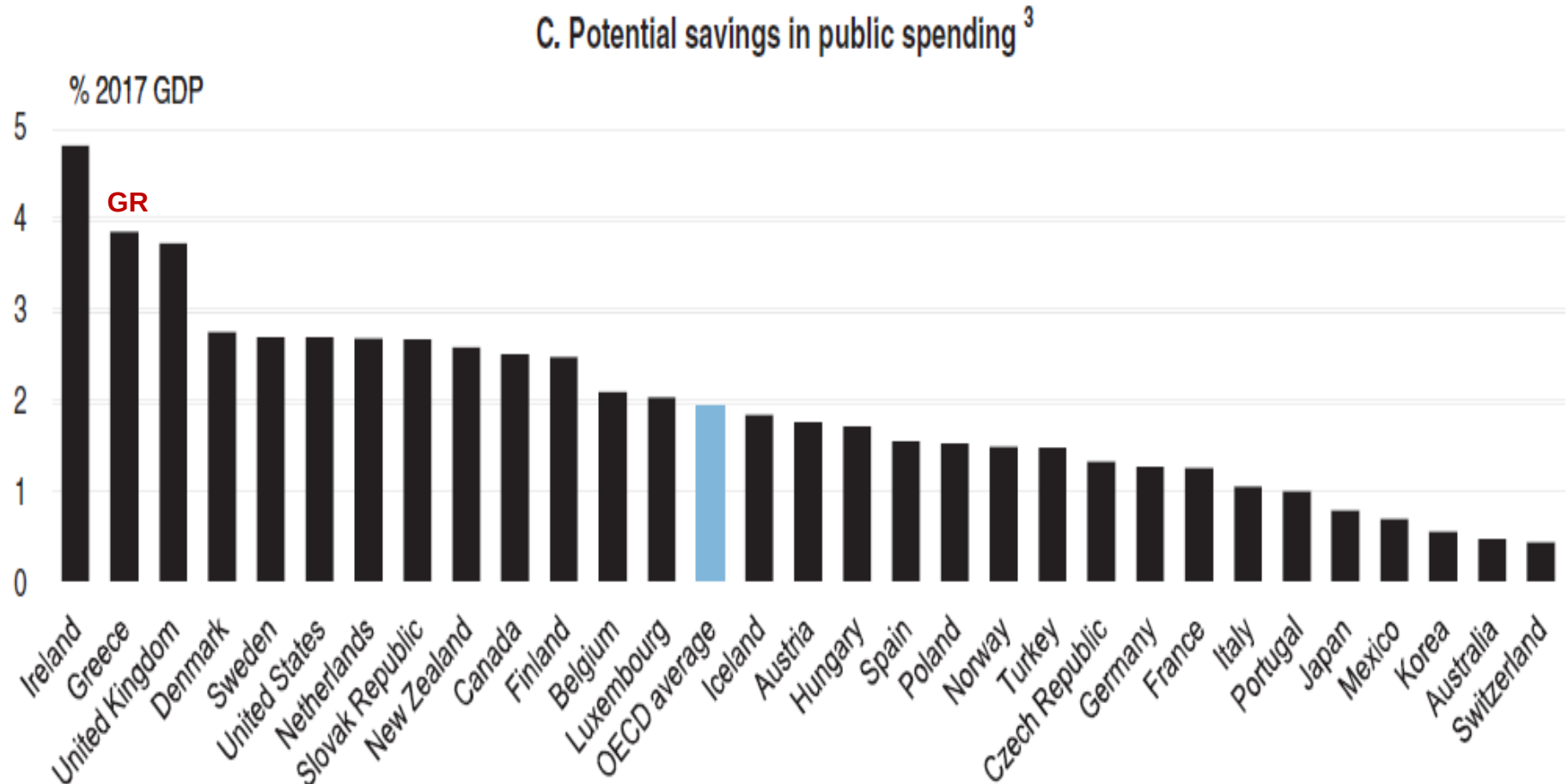


Μοναδικό στην χρηματοδότηση

Ασφάλιση



Αναποτελεσματικότητα σε μακρο-επίπεδο



3. Potential savings represent the difference between a no-reform scenario and a scenario where countries would become as efficient as the best performing countries.

Source: OECD Health Data 2009; OECD calculations.

Αναποτελεσματικό στην κατανομή των ανθρωπίνων πόρων

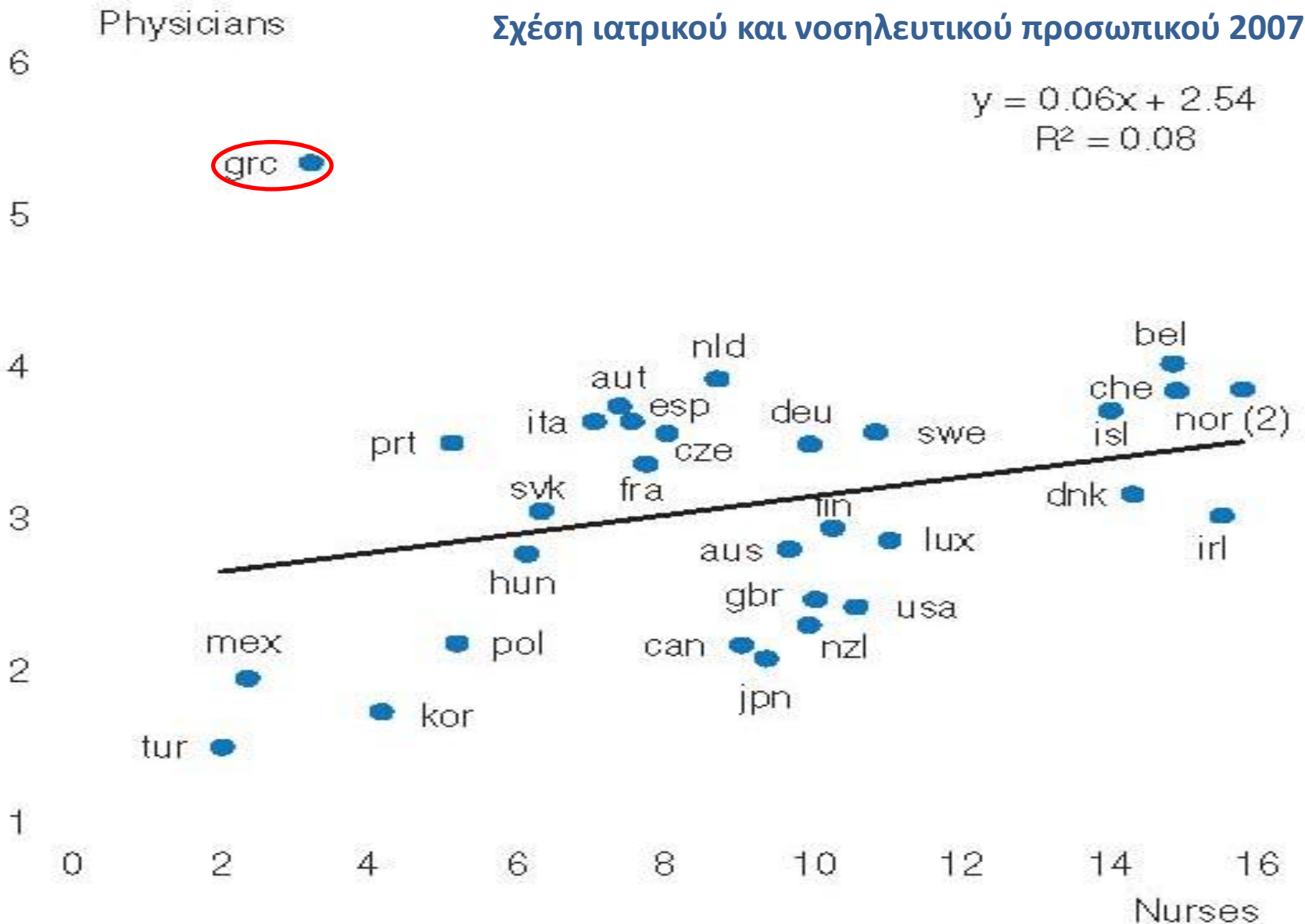
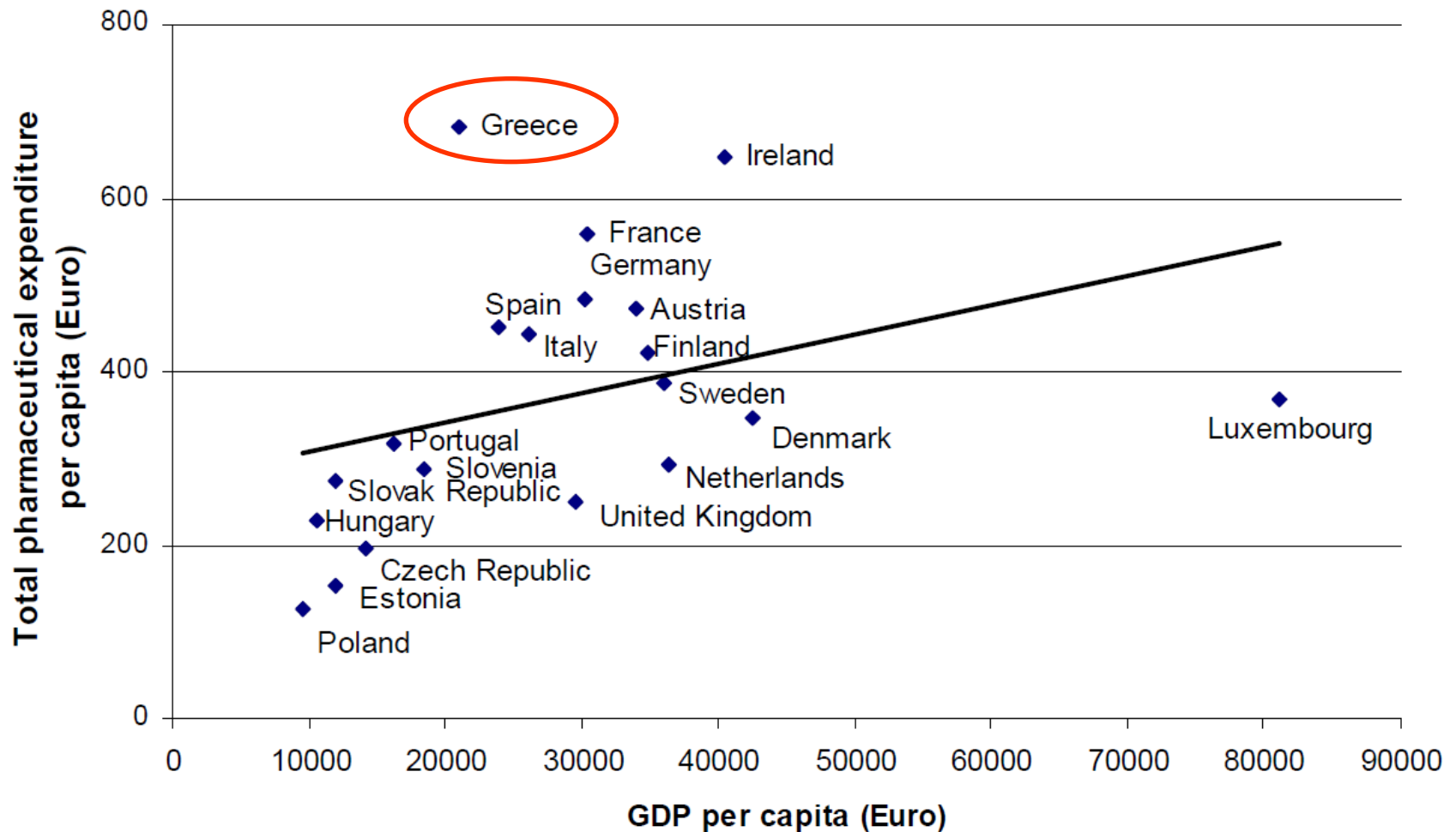
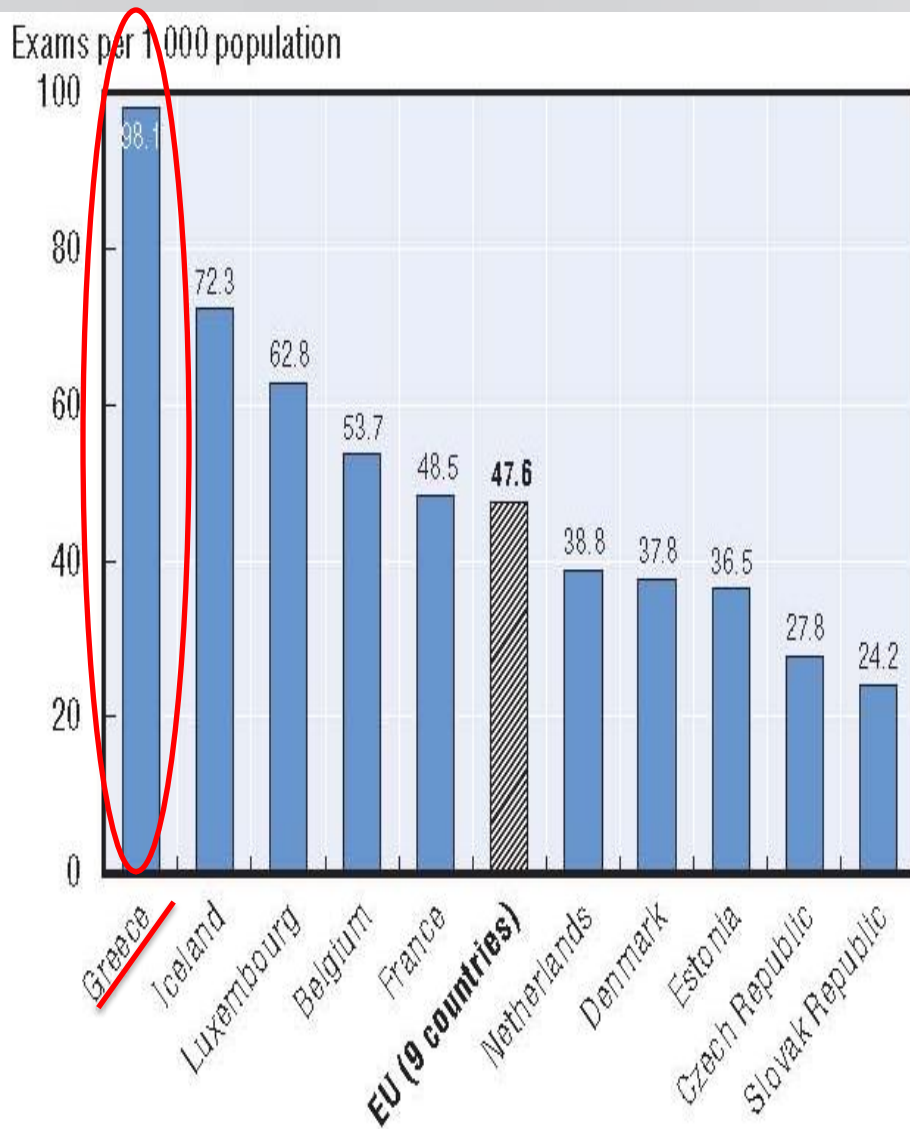


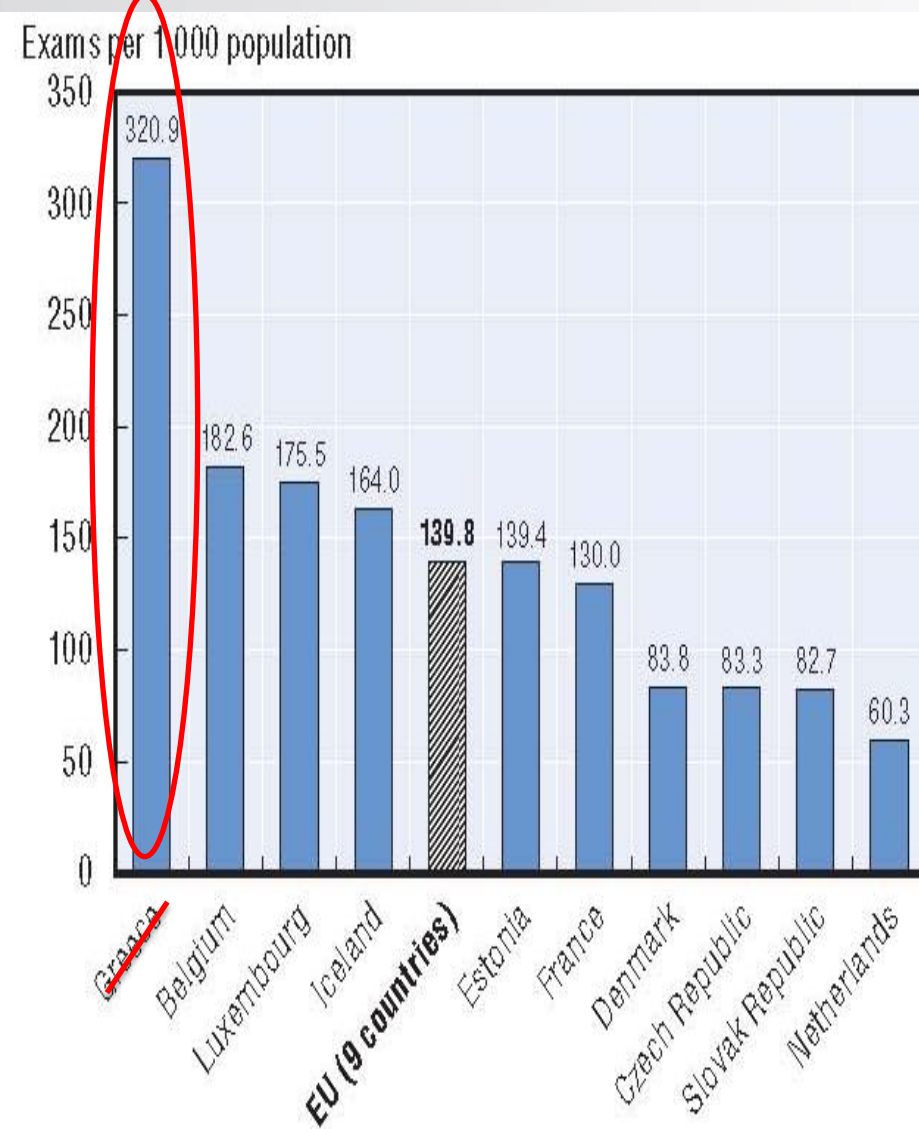
Figure 5: Pharmaceutical expenditure per capita (Euro) and GDP per capita, 2008



With supplier induced demand phenomena, MRI and CAT Scans, 2008

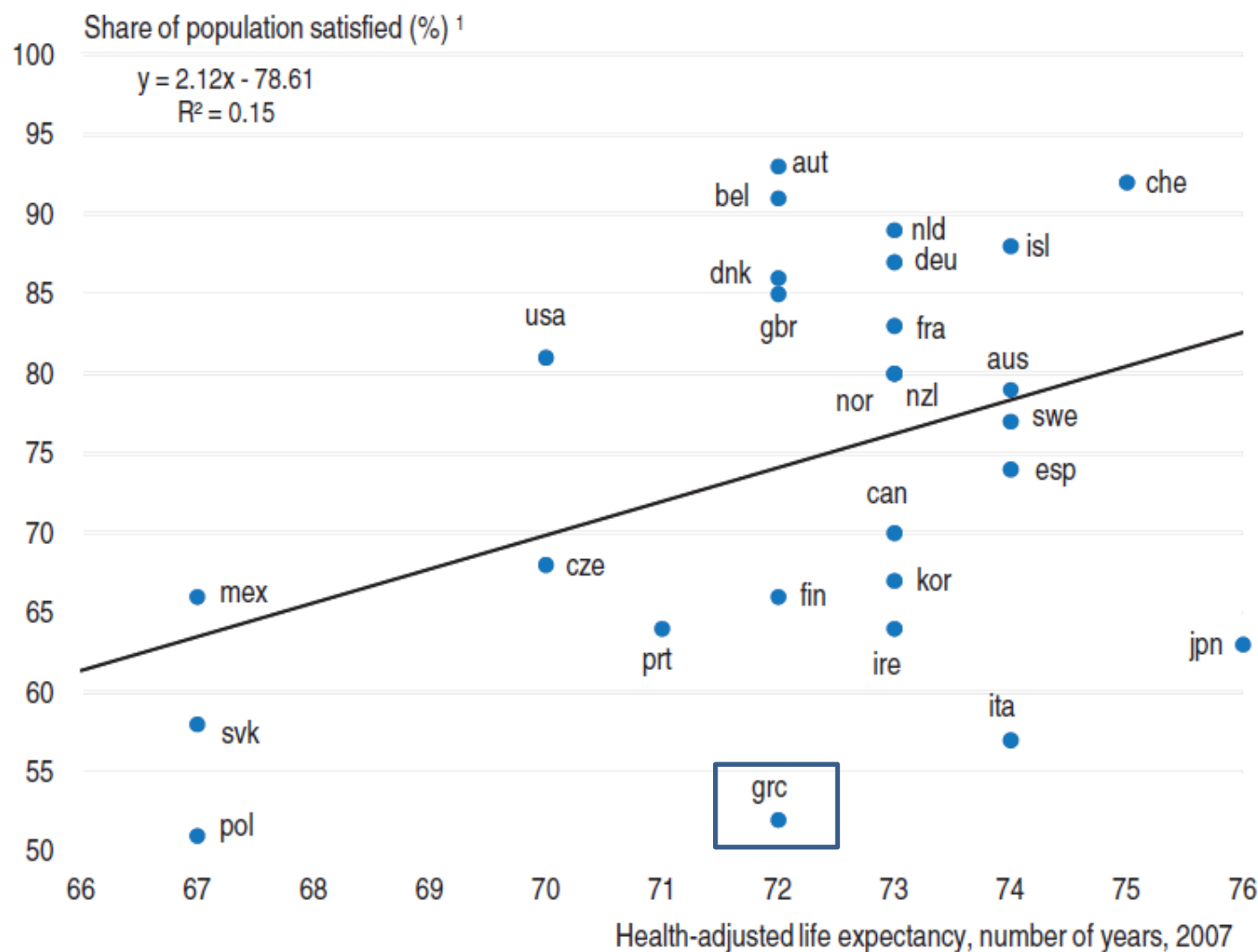


Source: OECD Health Data 2010.



Source: OECD Health Data 2010.

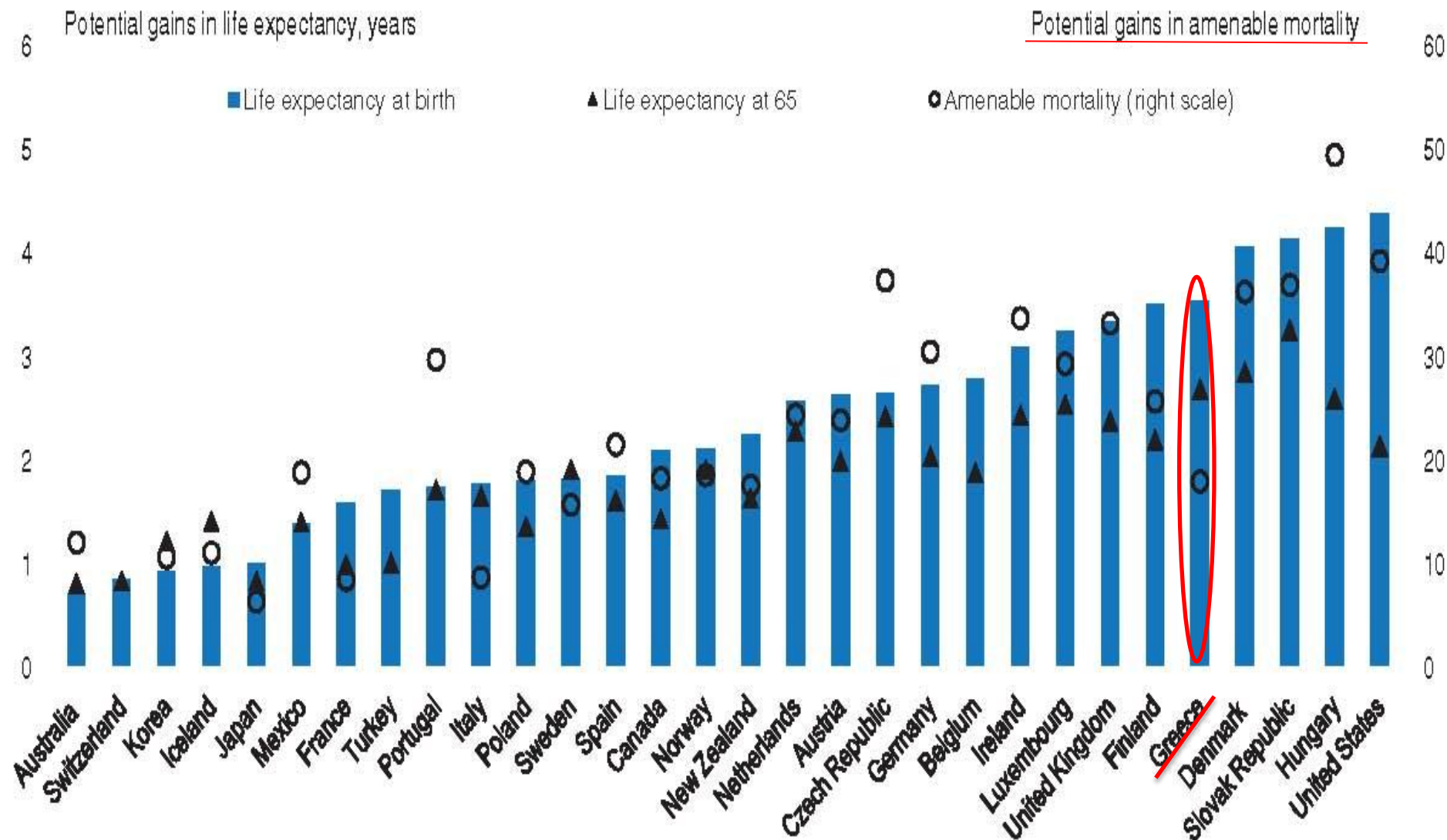
Figure 1.6. **Public satisfaction and health-adjusted life expectancy**



1. Share of population satisfied with availability of quality health care, 2008.

Source: WHO, *World Health Statistics 2010*; OECD Health Data 2009.

Αναποτελεσματικό υγειονομικά



In this panel, all DEAs were performed with two inputs: health care spending *per capita* and a variable referred to in Panel B as ENV. ENV is a composite indicator of the socio-economic environment (GDP *per capita*, educational attainment) and lifestyle factors (nitrogen oxide emissions, consumption of fruit and vegetables, lagged consumption of alcohol and tobacco – 1990 data). All DEAs refer to 2007 except in the case where amenable mortality rates were taken as the outcome since these are only available until 2003 and for 27 countries.

Δομή Παρουσίασης



• Διευκρίνιση θέσεων στα Οικονομικά και την Οργάνωση του Τομέα της Υγείας



• Συνοπτική Αξιολόγηση του Ελληνικού Συστήματος Υγείας Πριν το Μνημόνιο



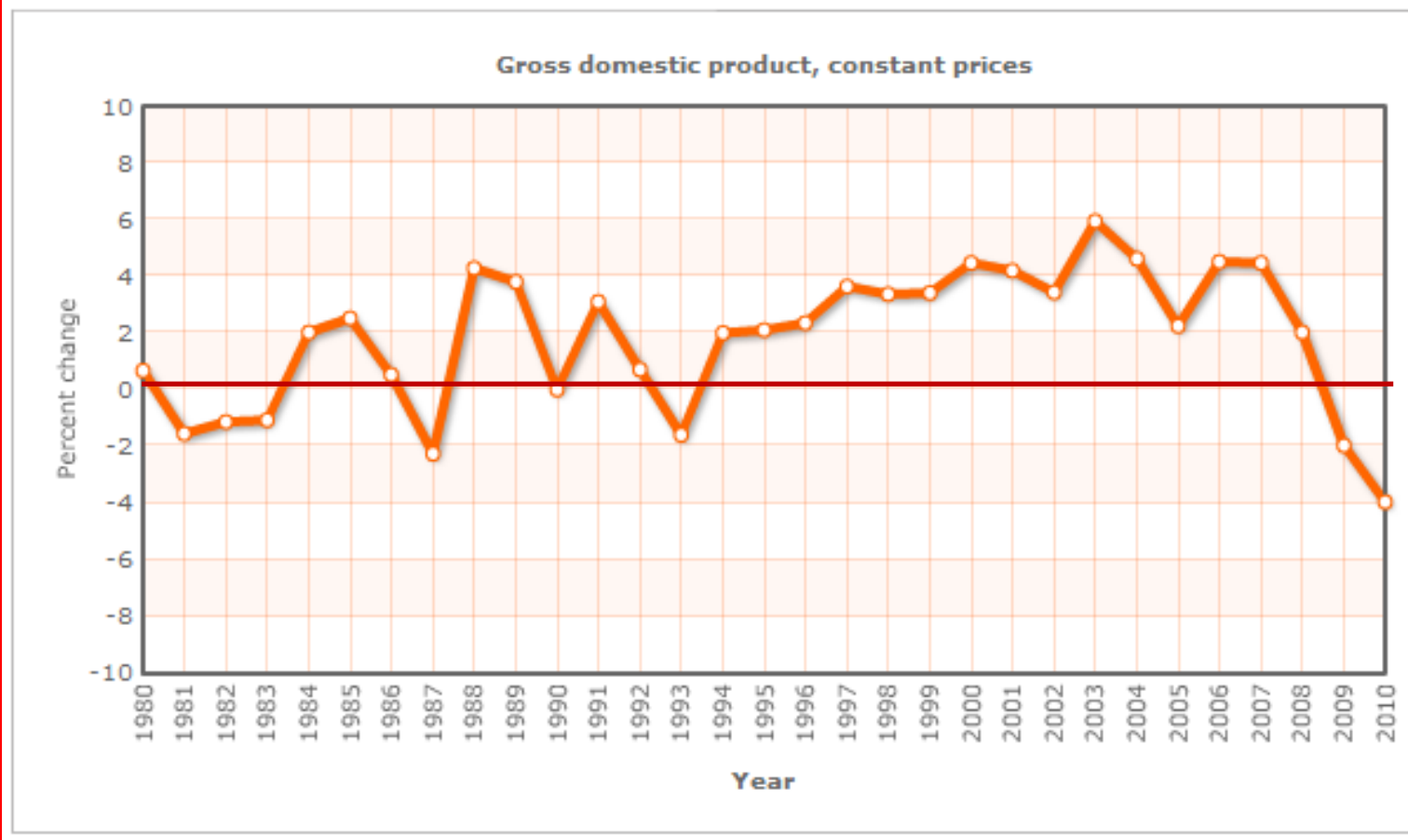
- Το Ελληνικό Σύστημα Υγείας και οι Παρεμβάσεις στην Εποχή του Μνημονίου



• Γίνεται να Μετατρέψουμε την Κρίση σε Ευκαιρία? Την Ατυχία σε Καλοτυχία?

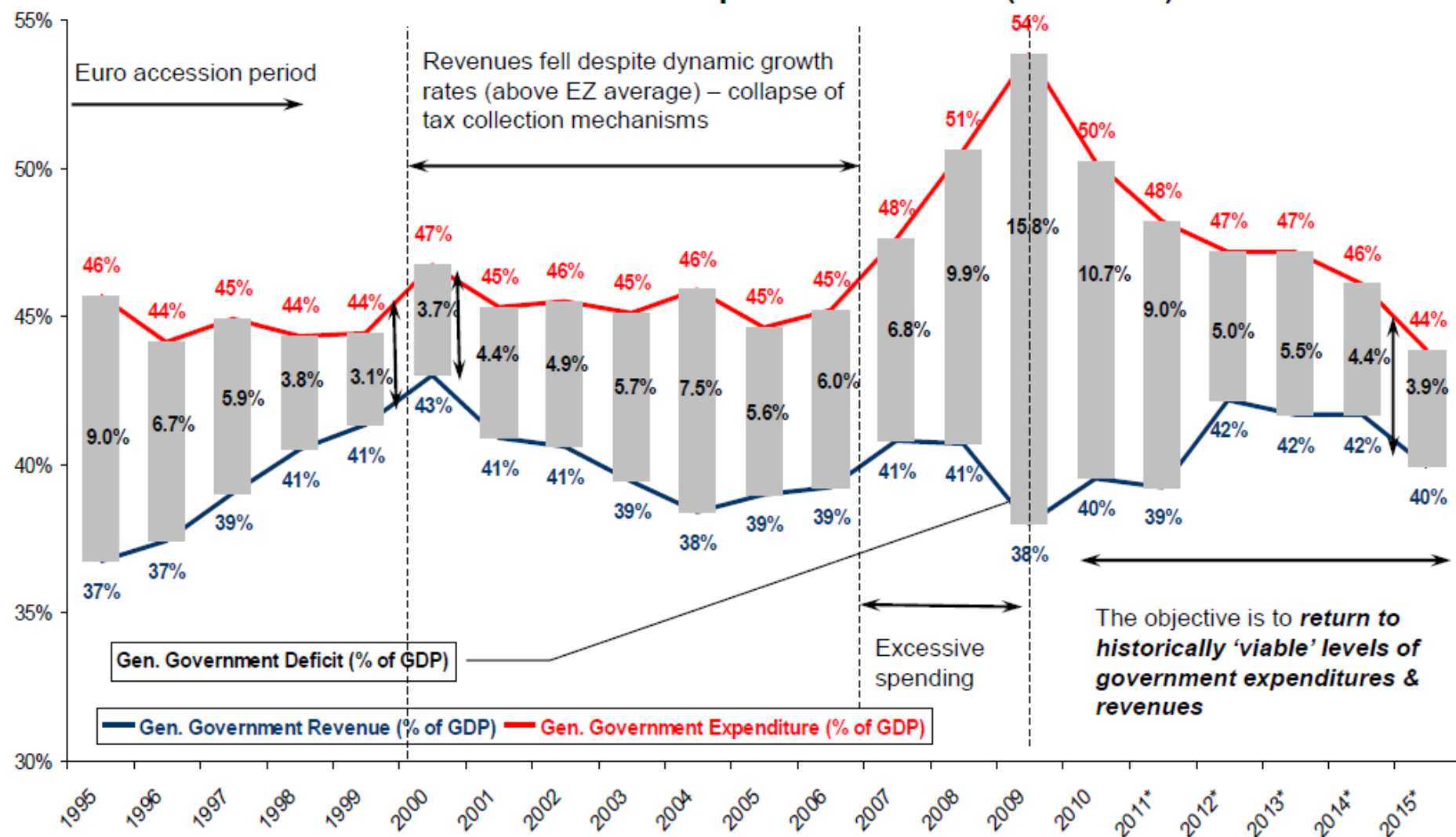
Ελλάδα, Ρυθμός Ανάπτυξης ΑΕΠ

Source: [International Monetary Fund](#) - 2010 World Economic Outlook



Fiscal Derailment: The lost decade

Gen. Government Revenue / Expenditure / Deficit (% of GDP)



* Estimate. Sources: AMECO database, ELSTAT, 2012 Budget, Ministry of Finance, November 2011

Occasional Papers 61 | May 2010



The Economic Adjustment Programme for Greece

ΛΟΙΠΟΝ, ΟΣΟΝ ΕΛΛΗΝΟΝ ΤΑ ΕΠΙΘΕΤΑ ΑΡΧΙΖΟΥΝ
ΑΠΟ Α, Β, Γ, Δ, Ε, Ζ, Η, Θ, Ι, Κ, Λ, Μ, Ν, Ξ, Ο, Π, Ρ, Σ,
Τ, Υ, Φ, Χ, Ψ, ΚΑΙ Ω
ΘΑ ΠΑΡΟΥΝ ΣΥΝΤΑΞΗ
ΣΤΑ 85!



του Χρ. Ζωίδη

Health care spending is a #1 target

Annex 7: Statement by the European Commission, the ECB and IMF on the Second Review Mission to Greece

November 23, 2010

Our overall assessment is that the program remains broadly on track. The end-September quantitative criteria have all been met. While challenges remain, significant progress has been made, particularly in reducing the fiscal deficit.

Regarding the outlook, the economy is expected to begin turning around in 2011. Wage and price inflation is beginning to moderate, setting the stage for improvements in competitiveness.

In the fiscal area, the deficit reduction by 6 percent of GDP in 2010 is larger than the initially targeted change. At the same time, weaker-than-projected revenue collection and data revisions for 2009 mean that an extra effort will be needed to meet the deficit target of 7.5 percent of GDP in 2011, which the government has reaffirmed. New measures have been agreed to broaden tax bases and eliminate wasteful spending, particularly in the areas of:

- Health spending—which is inefficient relative to other euro zone countries;
- State enterprises—which are a heavy burden on the economy with perennial losses for Greek taxpayers; and
- Tax administration—which has instruments now coming into place to strengthen compliance.

Στόχοι για τις Υπηρεσίες Υγείας στο Μνημόνιο

- Να παραμείνουν οι Δημόσιες δαπάνες υγείας $< 6\%$ του ΑΕΠ
- Μείωση των δημοσίων δαπανών φαρμάκου στο 1% του ΑΕΠ έως το 2014
- Αύξηση της ποιότητας και αποδοτικότητας των υπηρεσιών υγείας
- Επιμέρους ποσοτικοί στόχοι με συνδεδεμένοι με διάφορα μέτρα

Παρεμβάσεις Συνοπτικά στα Πρώτα Μνημόνια

Νοσοκομεία

- Χάρτης υγείας, συγχωνεύσεις, μηχανοργάνωση, ολόημερη λειτουργία, έλεγχος αναλωσίμων, διπλογραφικό & αναλυτική λογιστική, προμήθειες, κωδικοποιήσεις, e-prescription, ανακοστολόγηση και ανατιμολόγηση ιατρικών πράξεων και υπηρεσιών

Ταμεία

- Ηλεκτρονική συνταγογράφηση, ενοποίηση παροχών, ΣΥΠΣΥ, ΕΟΠΥΥ, αξιολογήσεις δαπανών, ανακοστολόγηση πράξεων, Κλειστά Ενοποιημένα Νοσήλια

Φάρμακα

- Νέο σύστημα τιμολόγησης, νέο σύστημα αποζημίωσης, 4 λίστες φαρμάκων, Διαγωνισμοί & Διαπραγματεύσεις, Κλειστοί προϋπολογισμοί, συνταγολόγια, E-prescription, υποκατάσταση από γενόσημα, rebate Εταιρειών, περιθώριο χονδρεμπόρων rebate φαρμακείων, πολιτική στο ΥΥΚΑ, διαγωνισμοί, συνταγογράφηση με βάση δραστική

Παρεμβάσεις Συνοπτικά στο Δεύτερο Μνημόνιο

Νοσοκομεία

- Μετατροπές στην διοίκηση υπηρεσιών, μετακινήσεις προσωπικού, μετατροπές λειτουργίας μονάδων, λογιστική, διπλογραφικό auditing, εθνικοί διαγωνισμοί

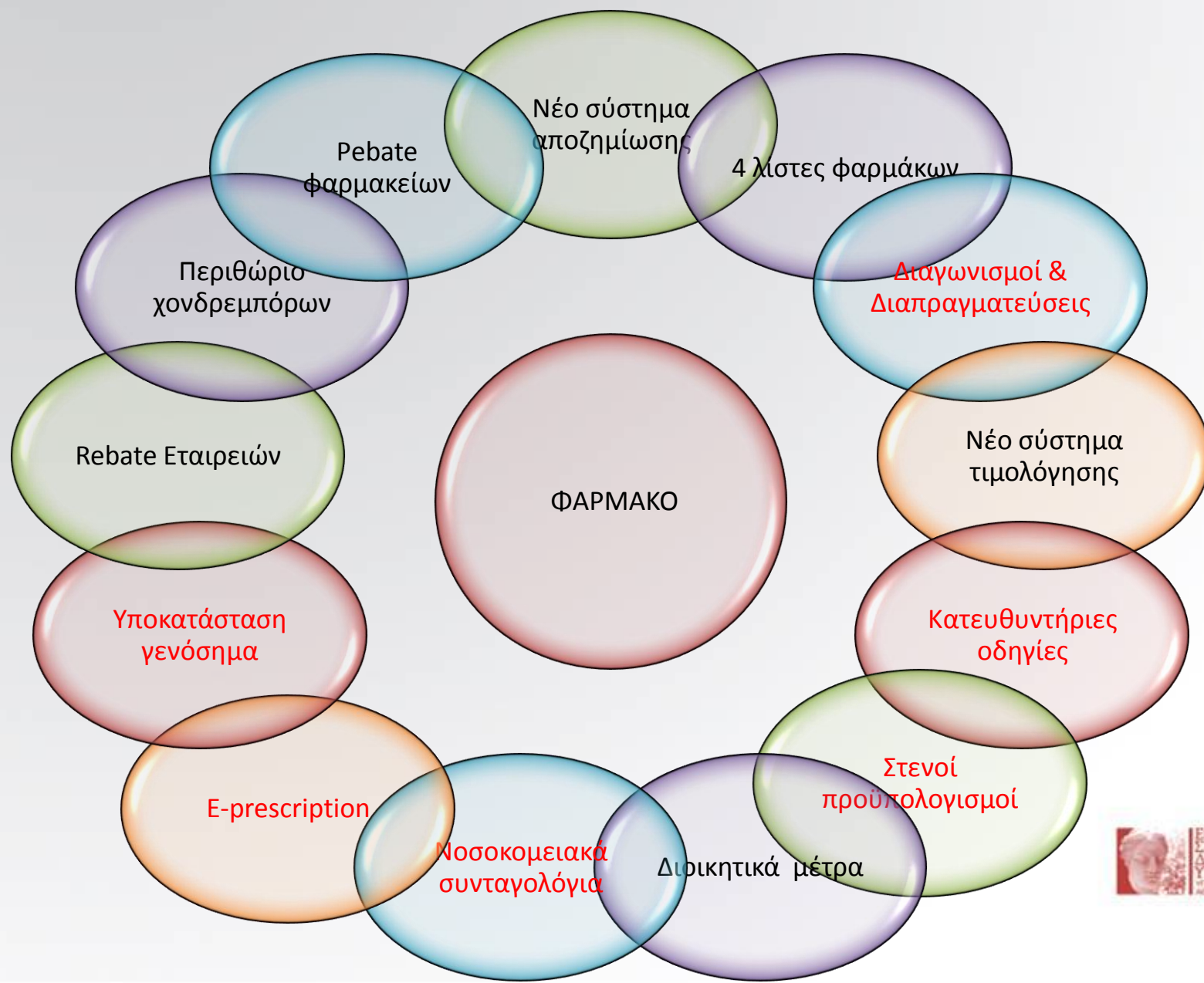
Ταμεία

- ΕΟΠΥΥ στο ΥΓΚΑ, μεταφορά και άλλων ταμείων, μοντέλο χρηματοδότησης και contracting, diagnostics,

Φάρμακα

- Τιμολόγηση στον ΕΟΦ, συμμετοχή ασθενών, δαπάνη με δωδεκατημόρια, επιπλέον μειώσεις στο σύστημα διανομής και rebates, συνταγογράφηση με δραστική, e-prescription Greek model, generic promotion

Μέτρα στοχευμένα στο φάρμακο



Και πιο ήταν το αποτέλεσμα?



Περήφανος για την
μείωση της δαπάνης

Παρέμβαση Πικραμμένου για τις ελλείψεις στα φάρμακα
Επιστολή του πρωθυπουργού προς τον Πρόεδρο του Ελεγκτικού Συνεδρίου,
Ιωάννη Καραβοκύρη.



Εικόνα διάλυσης στα δημόσια νοσοκομεία της Θεσσαλονίκης

Στην κατηγορία: Ρεπορτάζ

Ημερομηνία: 06/06/2012

Διόδωσέ το



Προμηθευτές Υγείας: Στα χέρια των Τραπεζών ο ομαλός εφοδιασμός των Δημόσιων Νοσοκομείων

16:25 14/6/2012 - Πηγή:
Healthier World

**Μπάχαλο!! Καρκινοπαθείς χωρίς φάρμακα...1,9δισ
τα χεωστούμενα του ΕΟΠΥΥ**

10:37 01/06/2012

Πέμπτη 14 Ιουνίου 2012
στο χώρο της Υγείας:
Προμηθευτών Επιστι
Σύλλογος Προμηθευ
Πανελλήνιος Σύλλογος
Υλικού (ΠΑ.ΣΥ.Π.Ο.Υ)
βιωσιμότητά τους όσ
που απέστειλαν την
Κυβέρνησης, τον Υπ
τον Διοικητή της Τρά
Τραπεζών

Tweet 0

+1 0

Μου αρέσει!



Φοβερό μπάχαλο στο τομέα της Υγείας
καθώς αγωνία ζουν καθημερινά οι
καρκινοπαθείς. Η άνεση του χρόνου,
ωστόσο, δεν υπάρχει για τους χρονίως
πάσχοντες ασθενείς με καρκίνο ή
πολλαπλή σκλήρυνση οι οποίοι γνωρίζουν
πολύ καλά ότι ακόμη και μία μέρα
καθυστέρηση στη θεραπεία μπορεί να
κοστίσει την ίδια τους τη ζωή.

Τους τελευταίους μήνες άτομα με σοβαρές
παθήσεις ψάχνουν μάταια για τα φάρμακά
τους από νοσοκομείο σε νοσοκομείο κι
από φαρμακείο σε φαρμακείο.

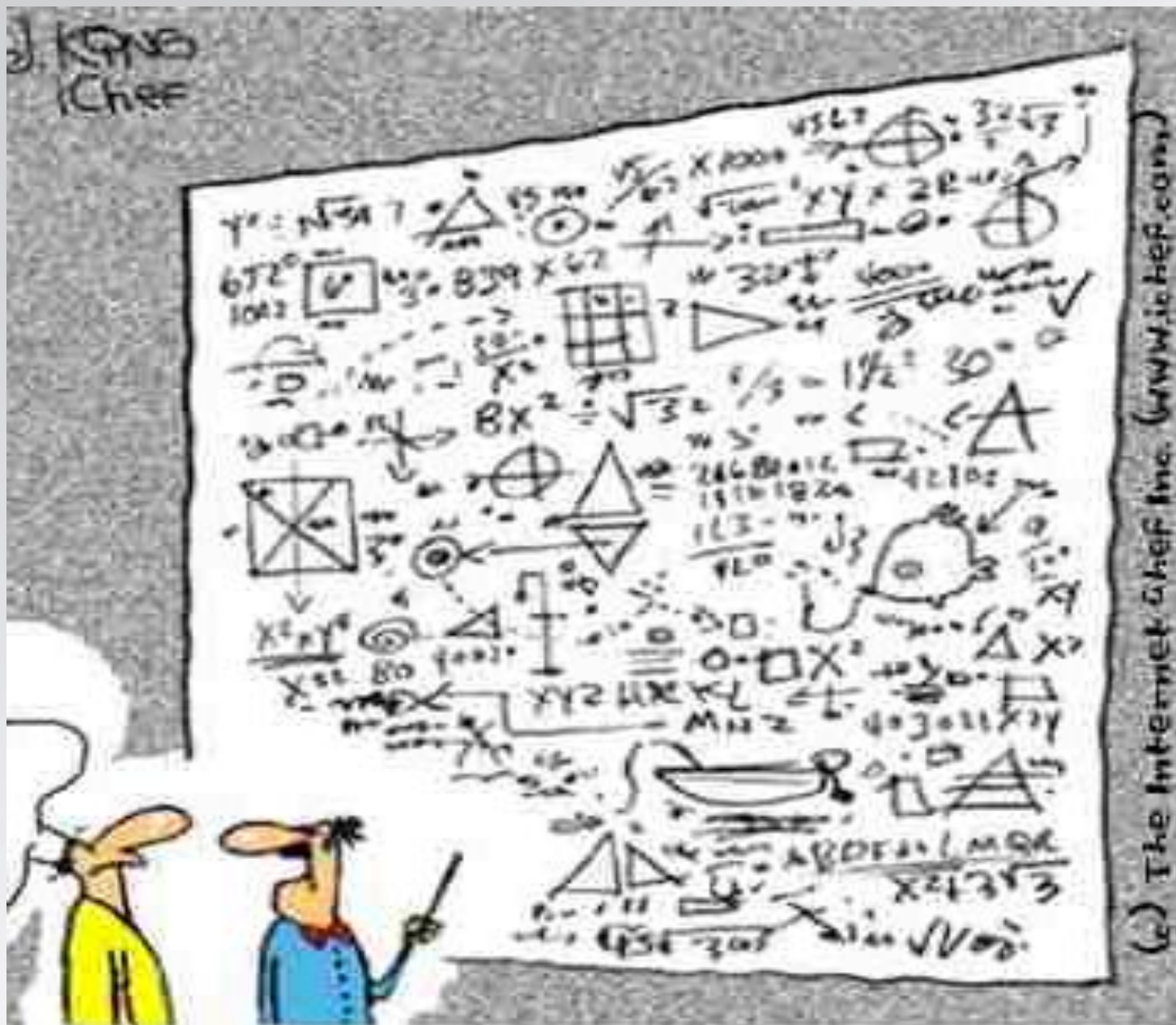
Στο κόκκινο βρίσκονται τα
δημόσια νοσοκομεία της
Θεσσαλονίκης αλλά και
όλης της χώρας. Γάζες,
σύριγγες, γάντια, ακόμη
και το βαμβάκι είναι πλέον
είδος πολυτελείας και
καθημερινά γίνεται
αγώνας, για να κρατηθούν
ανοικτά τμήματα ή κλινικές
και να γίνουν χειρουργικές
επεμβάσεις.





Η συνταγή είχε πρόβλημα





Το πρόβλημα ωστόσο το κύριο είναι στην εφαρμογή

Ανακαλύψαμε Νέα Μοντέλα Εξοικονόμησης Υγειονομικών Πόρων: “Αγαπητέ ασθενή για οικονομία, οι μάνατζερ μας ζητούν να κάνουμε επεμβάσεις χωρίς αναισθησία; Ελπίζω να μην σας πειράζει”



Νέα μοντέλα κατανομής και διαχείρισης προσωπικού

ΕΣΥ ΕΙΣΑΙ
ΝΟΣΗΛΕΥΤΡΙΑ;

ΟΧΙ... ΜΗΧΑΝΟΔΗΓΟΣ ΤΩΝ ΟΣΕ ΕΙΜΑΙ
...ΑΛΛΑ ΓΙΝΑΝΕ ΚΑΤΙ ΜΕΤΑΤΑ-
ΞΕΙΣ ΣΤΟ ΔΗΜΟΣΙΟ...



Παρουσιάσαμε μια ανύπαρκτη εικόνα για να πάρουμε την βούλα



Foto: J. Szecsenyi, 2005

Η πραγματικότητα όμως είναι σκληρή και αντίθετη?



Foto: J. Szecsenyi, 2005

Συμπεράσματα II

- Το σύστημα υγείας ήταν πολύ προβληματικό πριν την έναρξη του μνημονίου
- Ορισμένοι από τους οικονομικούς στόχους ήταν αιτιολογημένοι, ωστόσο άλλοι αλλοπρόσαλλοι δεδομένης της υπο-χρηματοδότησης του συστήματος από δημόσιους πόρους
- Με την έναρξη του επιχειρήθηκε η ταυτόχρονη εφαρμογή δεκάδων μέτρων και πολιτικών από μια δημόσια διοίκηση με χαμηλή αποτελεσματικότητα και δυναμικότητα

Δομή Παρουσίασης



• Διεθνείς Τάσεις στα Οικονομικά και την Οργάνωση του Τομέα της Υγείας



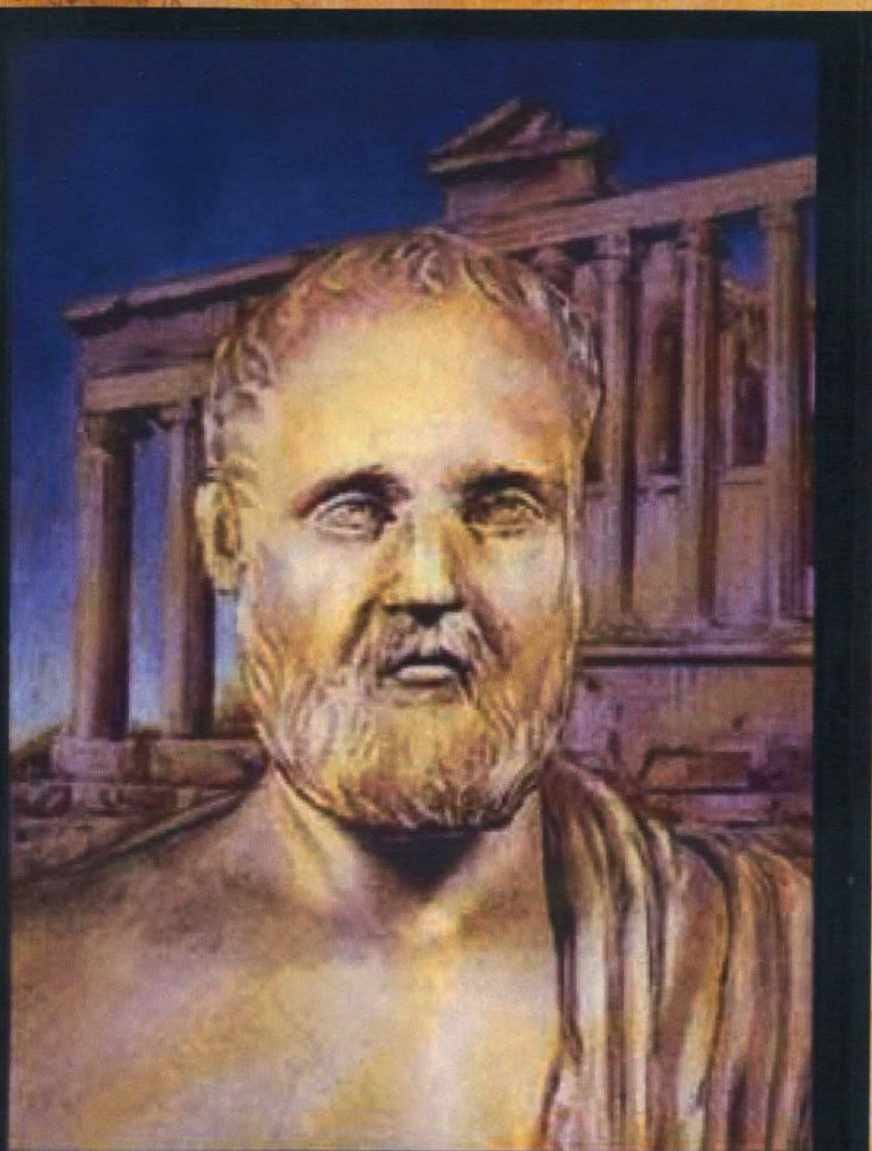
• Συνοπτική Αξιολόγηση του Ελληνικού Συστήματος Υγείας Πριν το Μνημόνιο



• Το Ελληνικό Σύστημα Υγείας και οι Παρεμβάσεις στην Εποχή του Μνημονίου



- Γίνεται να Μετατρέψουμε την Κρίση σε Ευκαιρία? Την Ατυχία σε Καλοτυχία?



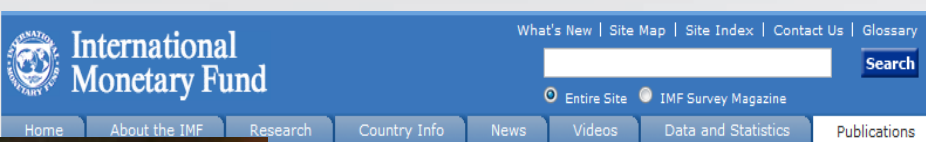
ΙΣΟΚΡΑΤΗΣ

«Η ΔΗΜΟΚΡΑΤΙΑ ΜΑΣ
ΑΥΤΟΚΑΤΑΣΤΡΕΦΕΤΑΙ ΔΙΟΤΙ
ΚΑΤΕΧΡΑΣΘΗ ΤΟ ΔΙΚΑΙΩΜΑ
ΤΗΣ ΕΛΕΥΘΕΡΙΑΣ ΚΑΙ ΤΙΣ
ΙΣΟΤΗΤΑΣ, ΔΙΟΤΙ ΕΜΑΘΕ ΤΟΥΣ
ΠΟΛΙΤΕΣ ΝΑ ΘΕΩΡΟΥΝ ΤΗΝ
ΑΥΘΑΔΕΙΑ ΩΣ ΔΙΚΑΙΩΜΑ, ΤΗΝ
ΠΑΡΑΝΟΜΙΑ ΩΣ ΕΛΕΥΘΕΡΙΑ,
ΤΗΝ ΑΝΑΙΔΕΙΑ ΤΟΥ ΛΟΓΟΥ ΩΣ
ΙΣΟΤΗΤΑ ΚΑΙ ΤΗΝ ΑΝΑΡΧΙΑ ΩΣ
ΕΥΔΑΙΜΟΝΙΑ»

ΙΣΟΚΡΑΤΗΣ 436π.Χ - 338π.Χ



Ποιος φταίει τελικά?



IMF Survey Magazine: Countries & Regions

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STAFF-LEVEL AGREEMENT

Europe and IMF Agree €110 Billion Financing Plan With Greece

IMF Survey online

May 02, 2010

- Twin pillars of ambitious program aim to...



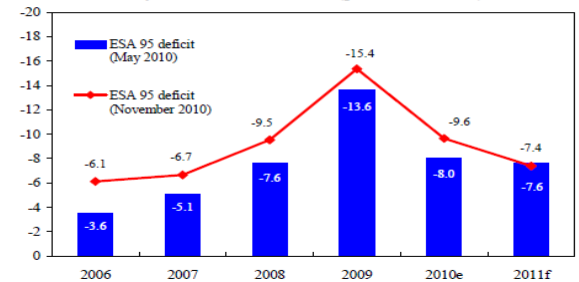
In Athens, Greek prime minister, George Papandreou announced a targeted program to cut spending, boost revenues, and modernize the economy (photo: Zuma/Newscom)



Έχουμε μακρά ιστορία, μακρύ δρόμο μπροστά μας και σκληρό DNA!!



Graph 14. Path for the ESA government balance in
May and November 2010 (percent of GDP)



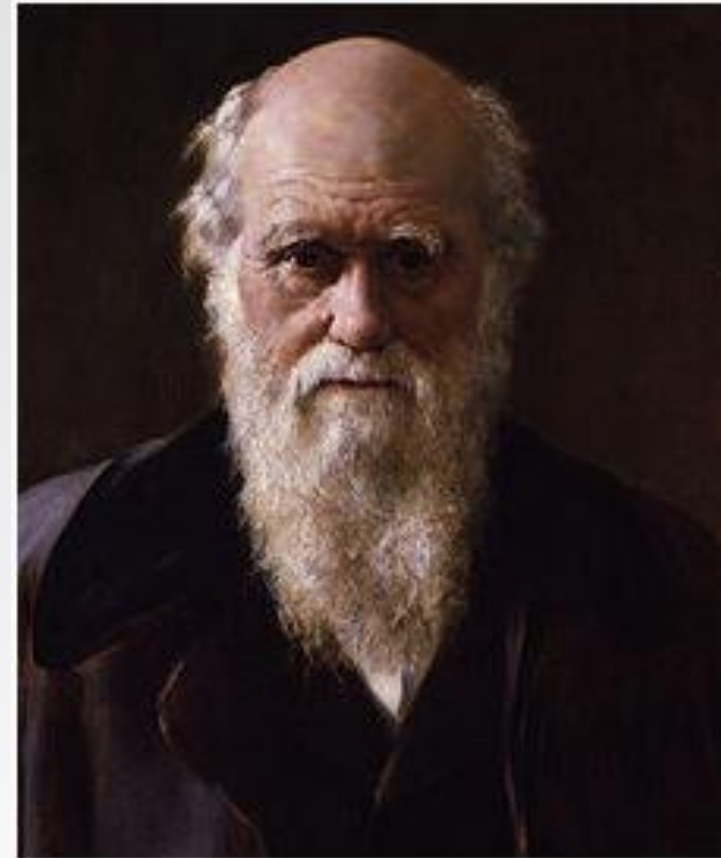
Source: Commission estimates



Πως θα επιβιώσουμε ?

"Survival of the fittest"

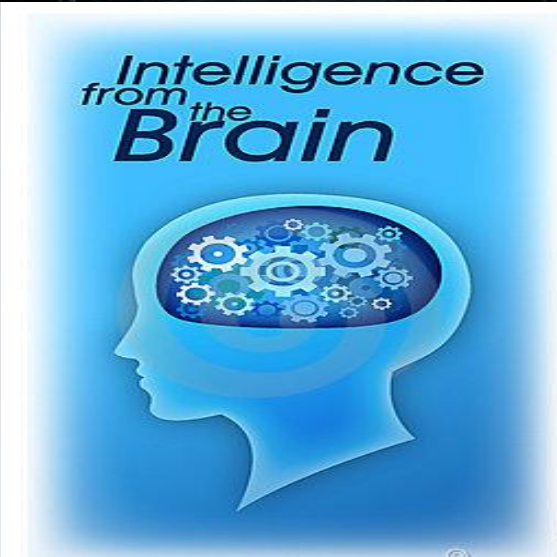
"better adapted for immediate, local environment"



INNOVATION



B⁺
BE POSITIVE



~~Reactive~~
Proactive

BE COOL

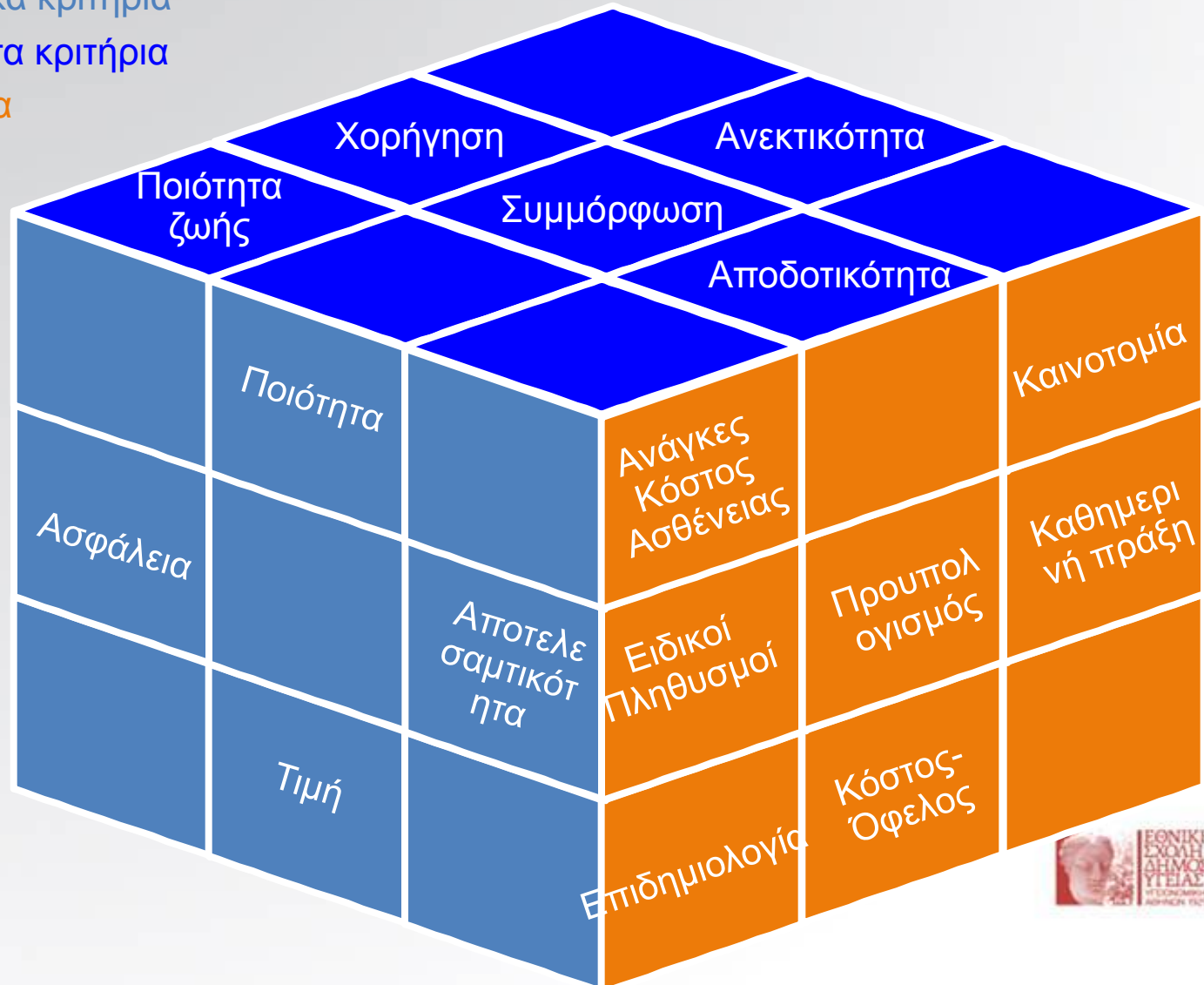


Τομείς παρέμβασης

- Συνταγολογία και Διαγωνισμοί
- Συνταγογράφηση και υποκατάσταση
- Κατευθυντήριες οδηγίες
- Οικονομική αξιολόγηση - κόστος

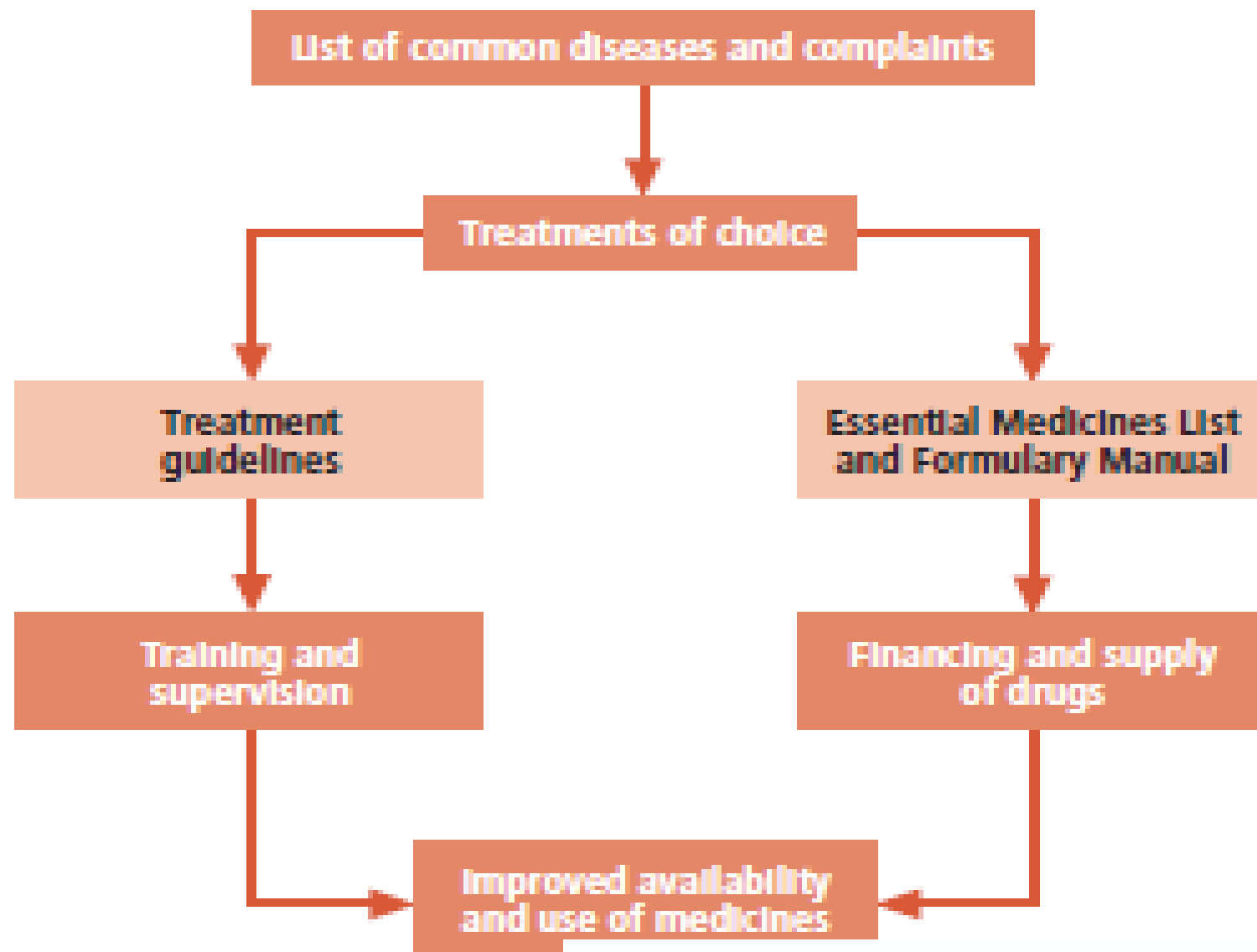
Η αξιολόγηση και χρήση των φαρμάκων και ιατρικών παρεμβάσεων πρέπει να βασίζεται σε πλήθος παραγόντων και κριτηρίων

-  = Παραδοσιακά κριτήρια
-  = Επιπρόσθετα κριτήρια
-  = Νέα κριτήρια



Λίστες – Συνταγολόγια - Οδηγίες

Figure 3.1 How STGs and EMLs lead to better prevention and care



4. Assessing new medicines



Summary

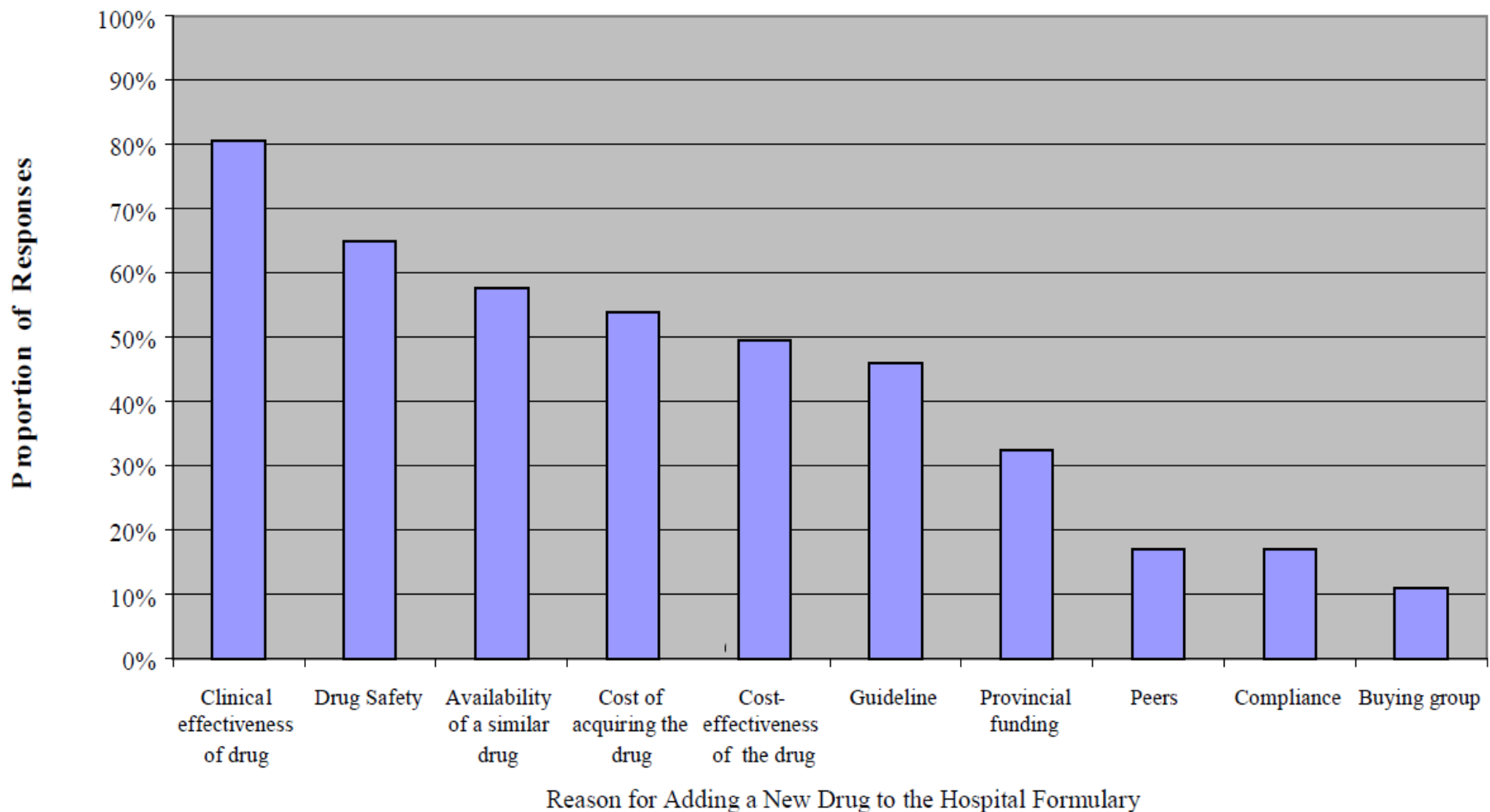
The assessment of new medicines is critical to managing a formulary list, which involves adding new medicines and deleting old ones. Drugs should be evaluated and compared on the basis of:

- efficacy, comparative efficacy
- effectiveness, comparative effectiveness
- safety, comparative safety
- cost of use
- quality.

Efficacy, effectiveness and safety can be evaluated from a critical assessment of the literature. Much of the information may be biased and it is very important that those evaluating new medicines have the necessary skills and time to assess the literature critically. Once efficacy and safety are established, medicines should be compared according to cost of use and, if possible, cost-effectiveness. Drug costs and quality will vary with locality.

A SURVEY OF PHARMACY AND THERAPEUTIC COMMITTEES ACROSS CANADA: SCOPE AND RESPONSIBILITIES

Nicole Mittmann^{1,2}, Sandra Knowles³



Drug and Therapeutics (D & T) committees in Dutch hospitals: a nation-wide survey of structure, activities, and drug selection procedures

Figure 1 The information requested on an HDF drug application form.

A. Product-specific information:

Proprietary name and generic name
Form(s) of administration and possible route(s) of administration
Strength(s)
Pharmaceutical industr(y)(ies)
Registered and nonregistered indication(s)
Replacement (if yes, which product) or addition
Price (per smallest dosage unit)

B. Pharmacotherapeutic and pharmacoeconomic information

Scientific literature about clinical performance (inclusion of copies)
Pharmacological mechanism: innovative or known
Contra indication(s), adverse effects, and drug–drug interaction(s)
Hospitals in which the product is already being used (national or international)
Number of patients/year that will probably use the product
Number of medical specialties and (outpatients') departments that will prescribe the product
Expenditures/year (in case of replacement, savings or extra costs)
Possibility of use within primary and tertiary healthcare
Included in formularies or guidelines used in primary and tertiary healthcare or neighbouring hospitals

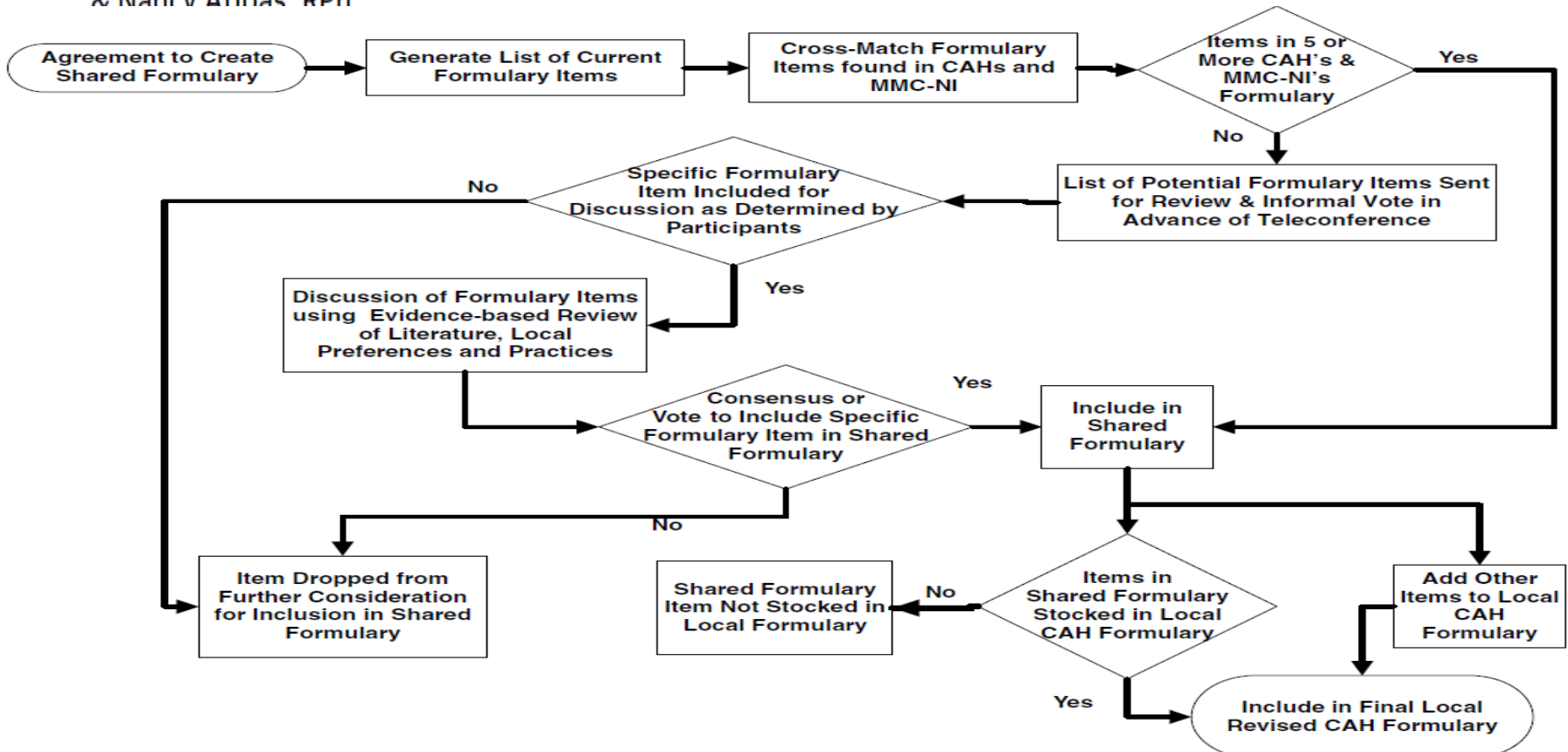
C. Applicant information

Name of the medical specialist
Other medical specialists that support this application
Signature and date

ORIGINAL ARTICLE

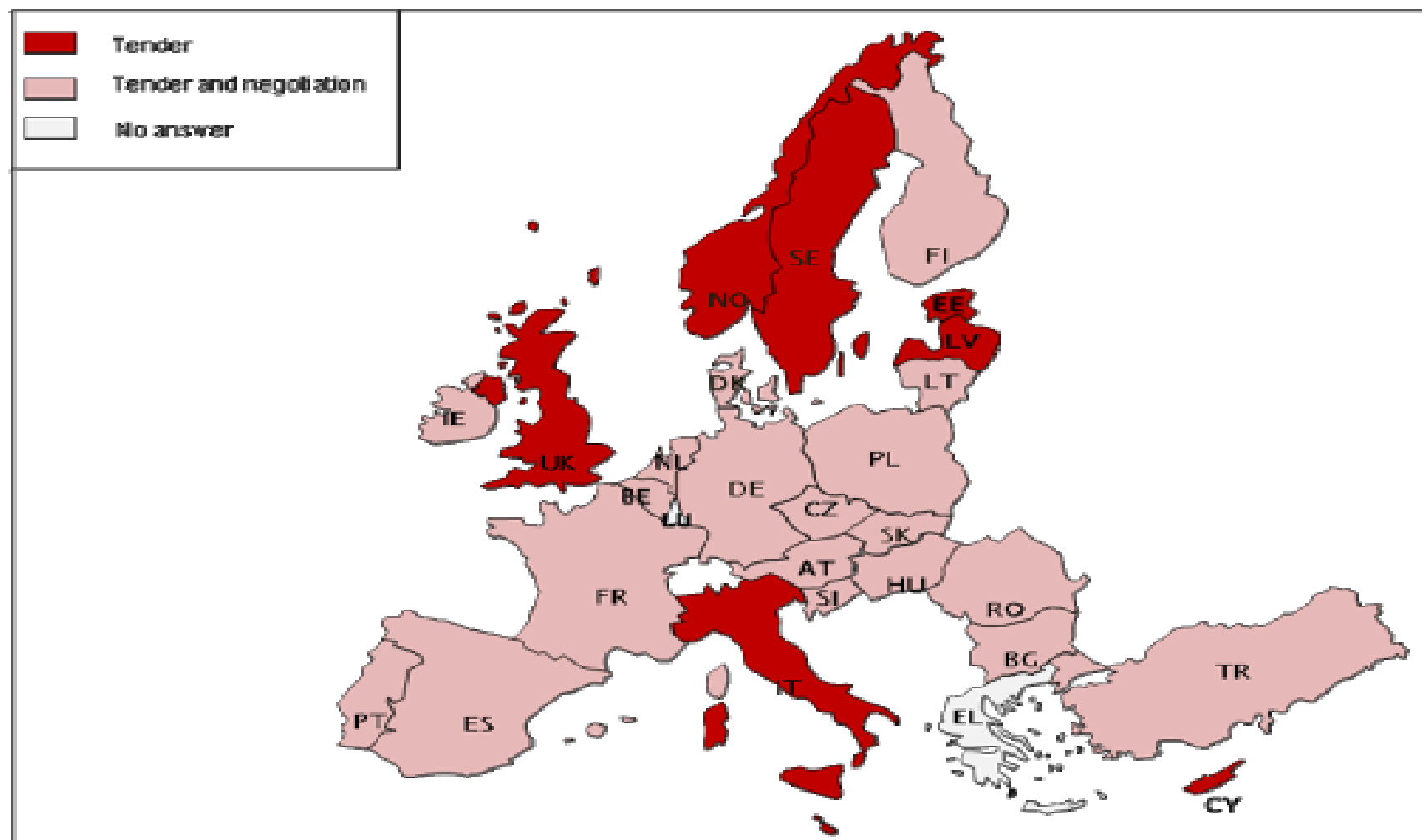
Creating a Shared Formulary in 7 Critical Access Hospitals

Douglas S. Wakefield, PhD;¹ Marcia M. Ward, PhD;² Jean L. Loes, MS, RN;³ John O'Brien, MBA;⁴
& Nancy Ahhas, RPh³



Διαγωνισμοί

Figure 4.1: European survey – Purchasing policies for medicines used in hospitals in European countries, 2009



Data not available for EL, LU

Source: PHIS 2009c-u, PHIS 2009v



**Tender systems for outpatient pharmaceuticals in the
European Union: Evidence from the Netherlands,
Germany and Belgium**

Panos Kanavos, Liz Seeley and Sotiri Vondoros

LSE Health

London School of Economics

Table 1
Key features of tendering systems in European countries , 2008 - 2009

Country	Tendering system in place	Year of introduction	Hospital care	Ambulatory care	Types of procured pharmaceuticals	Frequency	Criteria
Austria	Y	NA	✓	No	Vaccines, pharmaceuticals as defined in pandemic plans; also pharmaceuticals for military and prisoner population	Depending on need	Best price/offer
Belgium	Y	NA	✓	✓	Hospital care: Vaccines, pharmaceuticals as defined in pandemic plans and specific therapeutic groups of pharmaceuticals; also pharmaceuticals for military and prisoner population	Annually (hospital care)	NA
Cyprus	Y ¹	Before 1970	✓ ²	✓ ²	NA	Bi-annually (hospital care)	NA
Czech R	Y	NA	✓	✓	Hospital care: Vaccines, pharmaceuticals as defined in pandemic plans; pharmaceuticals relevant for public hygiene in competence of MoH	Annually (hospital care)	NA
Germany	Y ³	2003	No	✓	Pharmaceuticals in ambulatory care; mostly generics (also biosimilars), some branded ; AOK tenders for >90 molecules; tenders can be regionalized for AOK	Annually or every 2 years	Lowest price, product portfolio, supply
Denmark	Y	1990	✓	No	Vaccines, pharmaceuticals against communicable diseases, pandemics	Annually	NA
Estonia	Y	NA	✓	✓	Hospital care: Vaccines, pharmaceuticals against communicable diseases and drug addiction disorders	Annually (hospital care)	NA
Finland	Y	NA	✓	No	NA	At 1-3 year interval	Price, quality, supply, availability
France	Y	NA	✓	No	NA	Annually or every 2 years	NA
Hungary	Y	1994	✓	✓	Hospital care: Vaccines, pharmaceuticals	Annually	Lowest

Table 1
Key features of tendering systems in European countries , 2008 - 2009

Country	Tendering system in place	Year of introduction	Hospital care	Ambulatory care	Types of procured pharmaceuticals against communicable diseases, pandemics	Frequency (hospital care)	Criteria price; most reliable supplier
Ireland	Y	NA	✓	✓	Hospital care: Vaccines, pharmaceuticals against communicable diseases, pandemics	Annually or multi-annually (hospital care)	MEAT ⁴
Latvia	Y	1998	✓	✓	Hospital care: Vaccines, pharmaceuticals against communicable diseases, pandemics and oncology drugs	3-4 months before the agreement with the seller expires; irregular (hospital care)	Lowest price
Malta	Y	NA	✓ ²	✓ ²	NA	3 years (hospital care)	NA
The Netherlands ⁵	Y	Q3 2005	No	✓	Currently 33 molecules; vary by insurer; possibility to extend to more molecules	6-monthly (originally for the 3 molecules of the combined preference system introduced in 2005) - Currently the duration is 12 months	Lowest price
Romania	Y	March 2002	✓ ²	✓ ²	Hospital care: Vaccines and pharmaceuticals as defined in pandemic plans	Annually (hospital care)	Lowest price
Sweden	Y	NA	✓	No	NA	Locally decided, most commonly bi-annual	NA
Slovenia	Y	Jan. 1998	✓ ²	✓ ²	NA	Annually (hospital care)	NA
UK	Y	NA	✓	No	Vaccines, pharmaceuticals against communicable diseases, pandemics	Determined by tendering strategy	Generally MEAT ⁴
Switzerland	Y	NA	✓	No	Vaccines, pharmaceuticals as defined in pandemic plans	Only in specific cases	NA
Iceland	Y	Jan. 2004	✓	✓	NA	Every 2 years (hospital care)	NA
Norway	Y	NA	✓	No	Pharmaceuticals as defined in pandemic plans	Annually	Lowest price; best economic offer

Table 4

Likely effects of tendering practices for retail market drugs in the Netherlands and Germany, 2009

Stakeholder	The Netherlands	Germany
Sickness funds	<u>Short-term</u>: significant savings through discounts, by influencing price directly through tender process; these need to be benchmarked against pharmacy remuneration <u>Long-term</u>: sustain the same or comparable level of savings provided there is sufficient competition on the supply-side	<u>Short-term</u>: significant savings through rebates, by influencing price directly through rebate process <u>Long-term</u>: sustain the same or comparable level of savings provided there is sufficient competition on the supply-side
Indirect impact on Patients	Likelihood of reduced premium or smaller increases in premium depending on size of savings	Likelihood of reduced premium or smaller increases in premium depending on size of savings
Direct impact on Patients	Smaller deductions from their (annual) excess	Zero co-pays if rebated price is 30% below reference price
Physicians	No incentives; complaints about increased workload at having to explain changes in treatment	Fiscal incentives planned: doctors to receive €0.50 per prescription for informing patients about likely changes to the product prescribed
Pharmacies	• Discount eliminated (or vastly reduced) from the pharmacy remuneration • Significant opposition to the preference policy due to its impact on overall remuneration level • Increase in dispensing fee by over €1 to counteract the effect on remuneration	• A bonus of €1,000 per pharmacy to enable them enforce the policy and tackle increased workload (only in North Rhine Westphalia) • Pharmacy remuneration based on the list price, not the tender price • Pharmacy remuneration does not encompass discounts

Generics industry	• One company wins entire molecule market • Lowest price is the winning factor • Price competition can lead to exit over the longer term	• One company wins molecule market • Lowest price is key in determining contract, but other factors such as product portfolio (for a specific molecule) are important • Possibility for more than one company to join forces and offer an inclusive deal for a molecule based on price and portfolio (number of putups based on dosage) • Price competition can lead to exit over the longer term
Originator-brand industry	• Complete exclusion from market if tender is not won • In-patent products (currently) excluded from preference policy • Based on the clustering the prices for patented products can be influenced downwards by generic products in the same cluster.	• Legal uncertainty about whether jumbo groups can be included in rebate policy • Individual in-patent products are included in rebate policy (with sales exceeding €800,000 pa) • Complete exclusion from market if tender is not won • Possibility to conclude rebate contracts prior to patent expiry which may also be valid for a certain time period beyond patent expiry • Increasing generic erosion via tendering may put more pressure on margins of originator companies. This may subsequently lead to higher prices of new products.



Operational principles

Four strategic objectives of pharmaceutical procurement

1. Procure the most cost-effective drugs in the right quantities
2. Select reliable suppliers of high-quality products
3. Ensure timely delivery
4. Achieve the lowest possible total cost

Product Selection and Monitoring Advisory Group. Factor X scoresheet.

SCORING CRITERIA			SCORES AWARDED				
			Product 1	Product 2	Product 3	Product 4	Product 5
Phase 1							
Safety	Plasma Source	20					
	Donor Test	10					
	Pool Size	5					
	Plasma Quarantine	5					
	Mini Pool NAT	5					
	Manufacturing Pool NAT	5					
	Viral Inactivation	25					
	Inhibitors	10					
	Measurement of Activation	5					
	Reported Incidence of Thrombosis	15					
	Presence of Factors in addition to Factor X	5					
	Total for Safety	110					
Efficacy	Recovery	10					
	Clinical Response	30					
	Total for Efficacy	40					
Quality	Qualitative and Quantitative Composition of Active Component	10					
	Excipients (presence or absence of albumin as a stabilier)	5					
	Stability	5					
	Volume of Administration	3					
	Instructions for Use & Handling	3					
	Ease of Administration	4					
	Total for Quality	30					

(continued on next page)

Security of Supply / Availability	Number of Manufacturing Plants	4					
	Security of Supply	6					
	Total for Supply/ Availability	10					
Scientific Support	Clinical Opinion	4					
	Consumer Opinion	3					
	Tender	3					
	Total for Scientific Support	10					
Total Scores Awarded: Phase 1		200					
Phase 2							
Cost	Total For Cost	20					
Total Scores Awarded: Phase 2							

Οικονομική Αξιολόγηση

Τιμή, Κόστος και κόστος-όφελος

Περίπτωση 1η

ΤΙΜΗ $\neq$ ΚΟΣΤΟΣ ΘΕΡΑΠΕΙΑΣ

ORIGINAL ARTICLE

Economic analysis of a multicentre, randomised, phase III trial comparing FOLFOXIRI with FOLFIRI in patients with metastatic colorectal cancer in Greece

N. Maniadakis^a, A. Pallis^b, V. Fragoulakis^c, P. Prezerakos^d and V. Georgoulas^b

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Table 2. Cost per item

Chemotherapy	Cost(€)
Folinic acid per mg	0.34
Irinotecan per mg	2.39
Oxaliplatin per mg	8.17
5-Fluorouracil per mg	0.18
Second line drugs	
Capecitabine 150 mg	88.12
Temozolomide 5 mg	33.34
Cisplatin 10 mg	7.38
Gemcitabine per mg	0.18
Cetuximab 100 mg	339.67
Bavacizumab 100 mg	531.11
RhG-CSF	
Granocyte 263 µg	444.78
Diagnostics	
CT scan	70.0
X-ray	5.0
SGOT	4.49
SGPT	4.49
γGT	5.02
LHD	4.75
Serum creatine	4.05
Albumin	5.22
Bilirubin	2.88
Na	5.22
K	5.22
LDH	4.75
ALP	5.02
Uric acid	2.88
CBC	2.71
Resource use	
Hospital day	73.0
Day visit	73.0

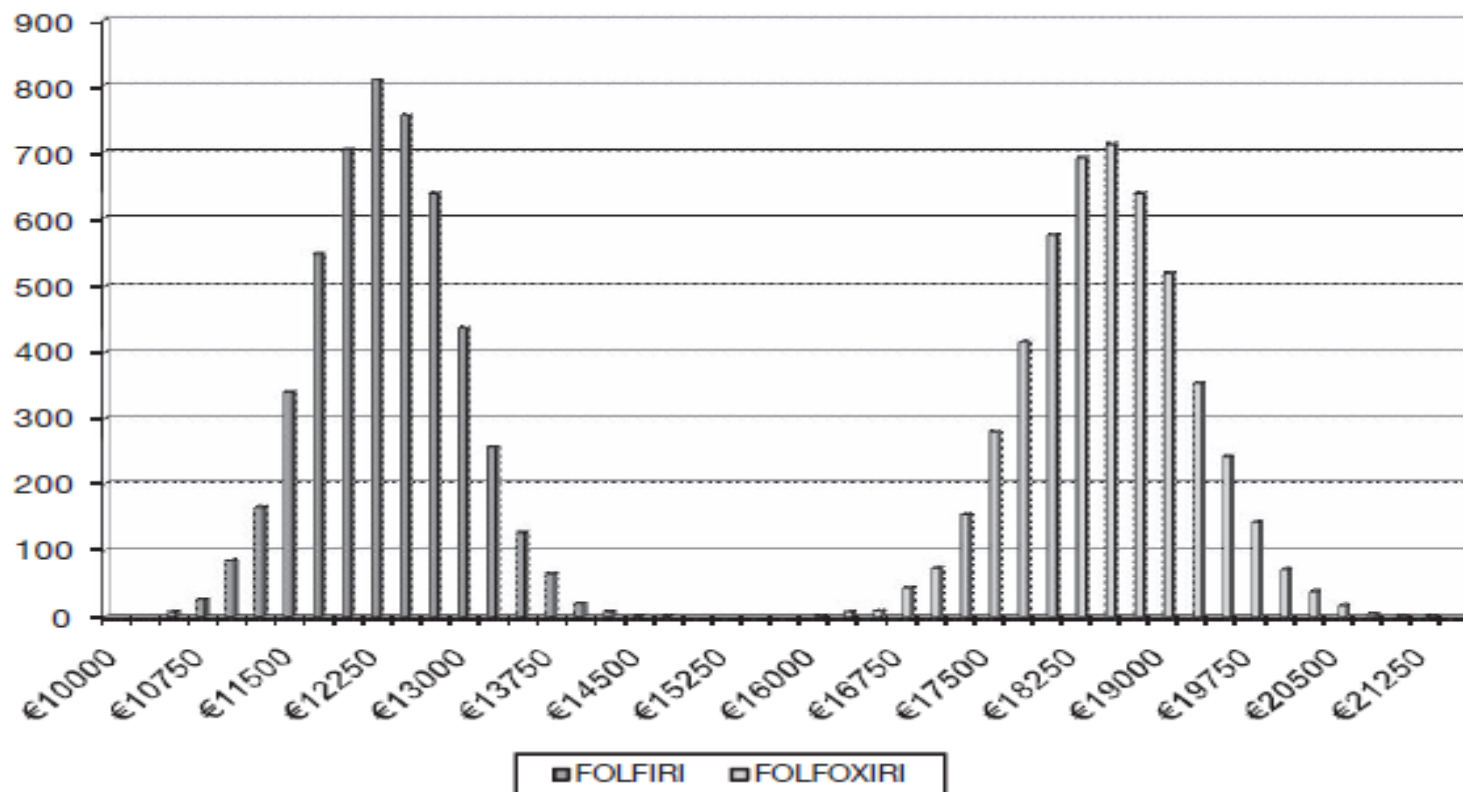


Table 3. Total treatment cost and differences between treatment groups

	FOLFIRI	FOLFOXIRI	Difference
Min	855	1666	811
Max	45 796	50 280	4484
Mean	12 201	18 344	6143
S.D.	610	712	660
95%UCI	13 427	19 776	6253
95%LCI	11 011	16 951	6033

Περίπτωση 2η

ΤΙΜΗ ΜΕΓΑΛΥΤΕΡΗ ΑΛΛΑ
ΚΟΣΤΟΣ ΘΕΡΑΠΕΙΑΣ ΧΑΜΗΛΟΤΕΡΟ

ORIGINAL ARTICLE

XELOX versus FOLFOX6 as an adjuvant treatment in colorectal cancer: an economic analysis

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Dimitrios Pectasides^c and George Fountzilas^d

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Key words: Capecitabine – Colorectal cancer – Economics – FOLFOX – XELOX

Table 2. Unit price data used to estimate treatment cost

Cost item	Cost (€) (per package)	Cost item	Cost (€) (per item)
Chemotherapy		Laboratory and Diagnostic Tests	
Oxaliplatin 5 mg/ml BT×1 Vial×10 ml	125.73	Haematology and biochemistry test	72.84
Oxaliplatin C.S. Vial×100mg×20 ml	441.44	CT scan	80.62
Capecitabine F.C.Tab. BT 120 × 500 mg	340.67	Serum glutamic pyruvic transaminase	8.98
Capecitabine F.C.Tab. BT 60 × 150 mg	51.36	Gamma-glutamyl transpeptidase	5.02
Irinotecan Hydrochloride 100 Mg/5 Ml	123.32	Albumin	5.87
Irinotecan Hydrochloride 40 Mg/2 Ml	50.46	Bilirubin	2.90
Erythropoietin		Sodium	5.22
Epoetinum alfa InjSol1 Vial × 4000 IU/ML	309.99	Potassium	5.22
Granulocyte Colony Stimulating Factor		Lactate dehydrogenase	4.75
Lenograstim (263 Mcg)	288.96	Alkaline phosphatase	5.02
Filgrastim (480 Mcg)	53.88	Haemoglobin	4.00
Antibiotics		Uric acid	2.88
Ceftazidime 2 g	11.81	Serum creatinine	4.05
Amicasil Inj Sol 1 Vial×500 Mg/2 Ml	2.64	Other Resources	
Metronidazole 500mg	2.58	Reimbursement for hospitalisation day	73.37
Clindamycin	6.56	Hospital real cost of inpatient day	480.00
Piperacillin/Tazobactam 4.5 g	10.16	Catheters and ports real/reimbursed cost	525.00
Ceftriaxone 2 g	12.19	Outpatient chemotherapy administration	30.00
Targoplanin 200 mg	14.74	Travel cost per kilometre	0.30
Teicoplanin 400 mg	33.78	Average salary per month	1000

XELOX versus FOLFOX6 as an adjuvant treatment in colorectal cancer: an economic analysis

Nikos Maniadakis^a, Vasilios Fragoulakis^b,
Dimitrios Pectasides^c and George Fountzilas^d

*Table 3. Mean treatment cost (in euros) per item and treatment group**

	FOLFOX6 (n = 86)	XELOX (n = 83)	Difference A – B	p value
National Health Service Perspective				
Total Cost	17 480 (15 846; 19 085)	12 525 (11 328; 13 778)	4955 (2423; 6524)	<0.001
Chemotherapy	8762 (7857; 9916)	9713 (8862; 10 710)	–954 (–2386; 484)	0.1943
Hospitalisations	5154 (4816; 5598)	1050 (958; 1146)	4104 (3677; 4530)	<0.001
Erythropoietin	2754 (2473; 3085)	1714 (1511; 1905)	1040 (662; 1417)	<0.001
G-CSF, Labs, Other Drugs	638 (560; 730)	357 (318; 397)	281 (185; 377)	<0.001
Social Insurance Perspective				
Total Cost	16 240 (14 668; 17 793)	12 617 (11 522; 13 830)	3623 (1467; 5439)	<0.001
Chemotherapy	9164 (8240; 10 335)	10 160 (9237; 11 250)	–996 (–4263; 2271)	0.1924
Hospitalisations	3079 (2874; 3344)	185 (154; 226)	2829 (1836; 3788)	<0.001
Erythropoietin	2892 (2593; 3247)	1800 (1578; 2003)	1092 (695; 1489)	<0.001
G-CSF, Labs, Other Drugs	661 (582; 755)	369 (328; 413)	292 (193; 391)	<0.001

*Figures in parentheses represent 95% lower and upper uncertainty intervals

ΠΕΡΙΠΤΩΣΗ 3η

ΤΙΜΗ ΜΕΓΑΛΥΤΕΡΗ ΑΛΛΑ
ΚΟΣΤΟΣ – ΟΦΕΛΟΣ ΕΛΚΥΣΤΙΚΟ



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q1 Economic evaluation of docetaxel/gemcitabine versus docetaxel as frontline treatment of patients with advanced/metastatic non-small cell lung cancer in Greece[☆]

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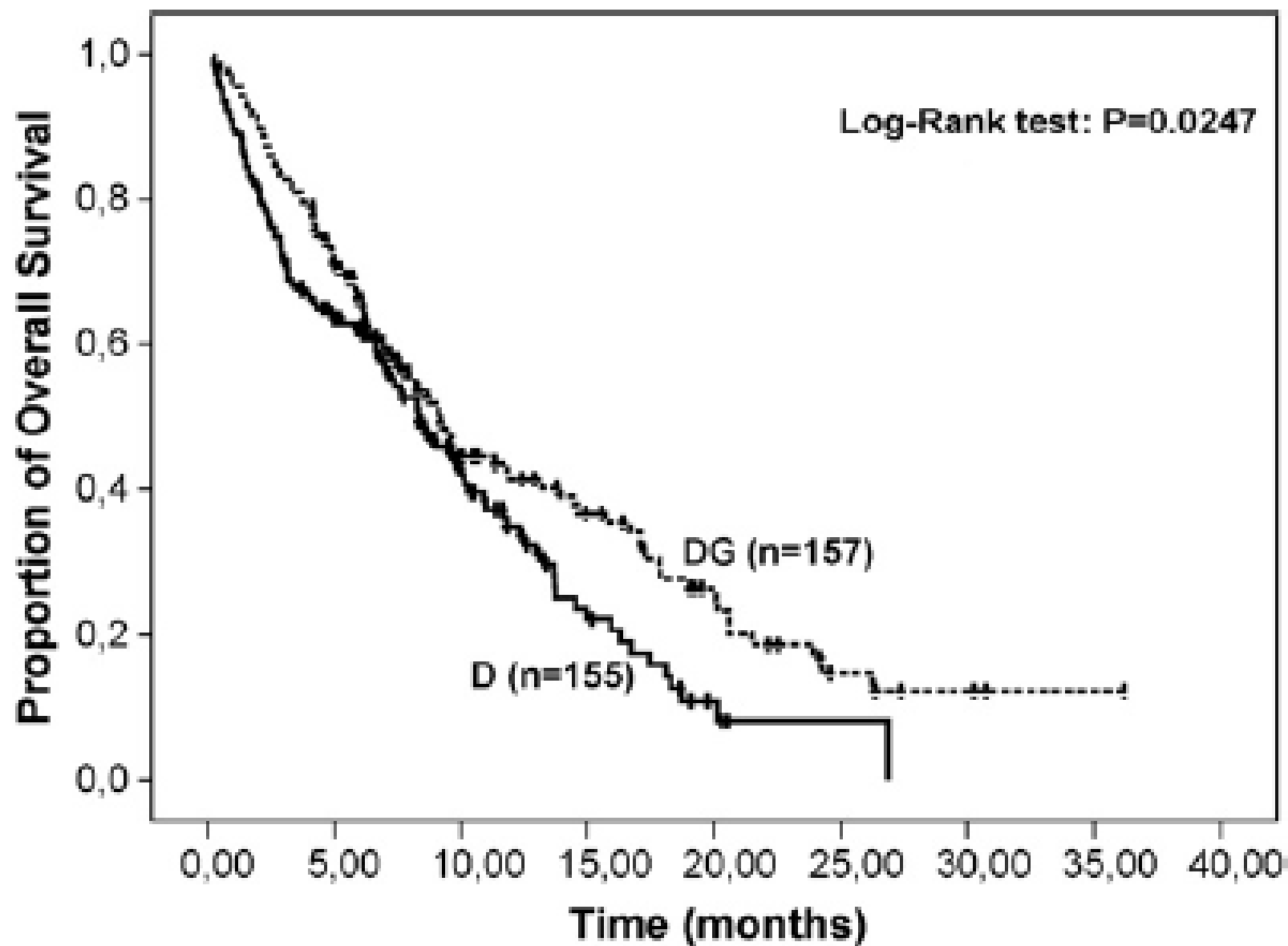


Fig. 1 Kaplan-Meier survival curve.

Table 2 Unit cost data used

Cost item	Cost (€)
Chemotherapy	
Docetaxel 20 mg	139.15
Docetaxel 80 mg	544.24
Gemcitabine 1 g	104.26
Gemcitabine 200 mg	21.83
Antibiotics	
Ceftazidime 2 g	11.81
Amikacin 250 mg	2.06
Amikacin 500 mg	3.01
Metronidazole 500 mg	3.23
Clindamycin 600 mg	2.44
Piperacillin/tazobactam 4.5 g	12.70
Ceftriaxone 2 g	15.23
Teicoplanin 200 mg	18.42
Teicoplanin 400 mg	36.82
Lenograstim (G-CSF)	57.80
Second-line chemotherapy	
Vinorelbine 10 mg	16.29
Vinorelbine 50 mg	74.50
Irinotecan 40 mg	63.06
Irinotecan 100 mg	154.16
Paclitaxel 30 mg	121.88
Paclitaxel 100 mg	405.25
Carboplatin 150 mg	55.45
Cisplatin 10 mg	4.40
Cisplatin 50 mg	2.01
Topotecan 20 mg	223.00
Temozolamide 20 mg	15.90
Temozolamide 100 mg	79.22
Temozolamide 250 mg	196.74

Other resources

Radiotherapy planning	290.63
Radiotherapy adjustment	290.63
Radiotherapy cost/session	14.01
Day of hospitalization	73.37
Outpatient chem. administration	30.00
Laboratory and diagnostic tests	
Hematology and biochemistry test	72.84
CT scan	80.62
X RAY	15.00
SGOT	8.98
SGPT	8.98
γGT	5.02
Creatin	4.05
Albumin	5.87
Bilirubin	2.90
Na	5.22
K	5.22
LDH	4.75
ALP	5.02

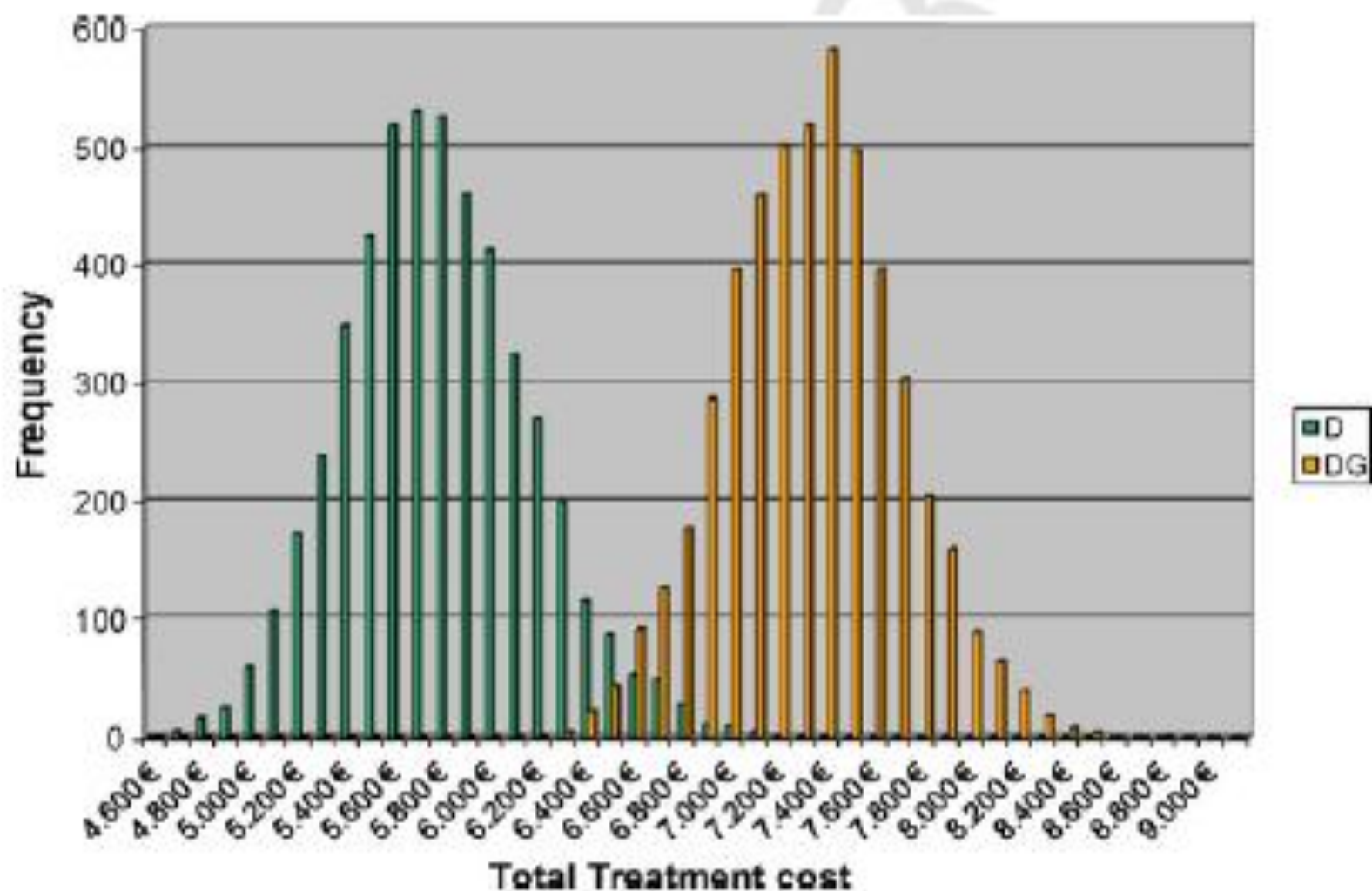


Fig. 3 Distribution of treatment cost (€) per therapy arm based on bootstrapped data.

Table 4 Cost–effectiveness

	D	DG	Difference
Effectiveness (months)			
Mean survival	7.25	9.19	1.94
S.D.	0.50	0.65	0.82
95%LCI	6.29	8.98	0.43
95%UCI	8.23	10.51	3.59
Treatment cost (€)			
Mean cost	5730	7272	1542
S.D.	384	362	532
95%LCI	5023	6571	499
95%UCI	6559	8012	2561

Incremental cost per life year saved of DG vs. D: € 9.538.

ΠΕΡΙΠΤΩΣΗ 4ⁿ

ΔΙΑΦΟΡΕΤΙΚΗ Η ΟΙΚΟΝΟΜΙΑ ΤΟΥ ΦΑΡΜΑΚΟΥ ΑΝΑ ΚΑΤΗΓΟΡΙΑ ΑΣΘΕΝΩΝ

original article

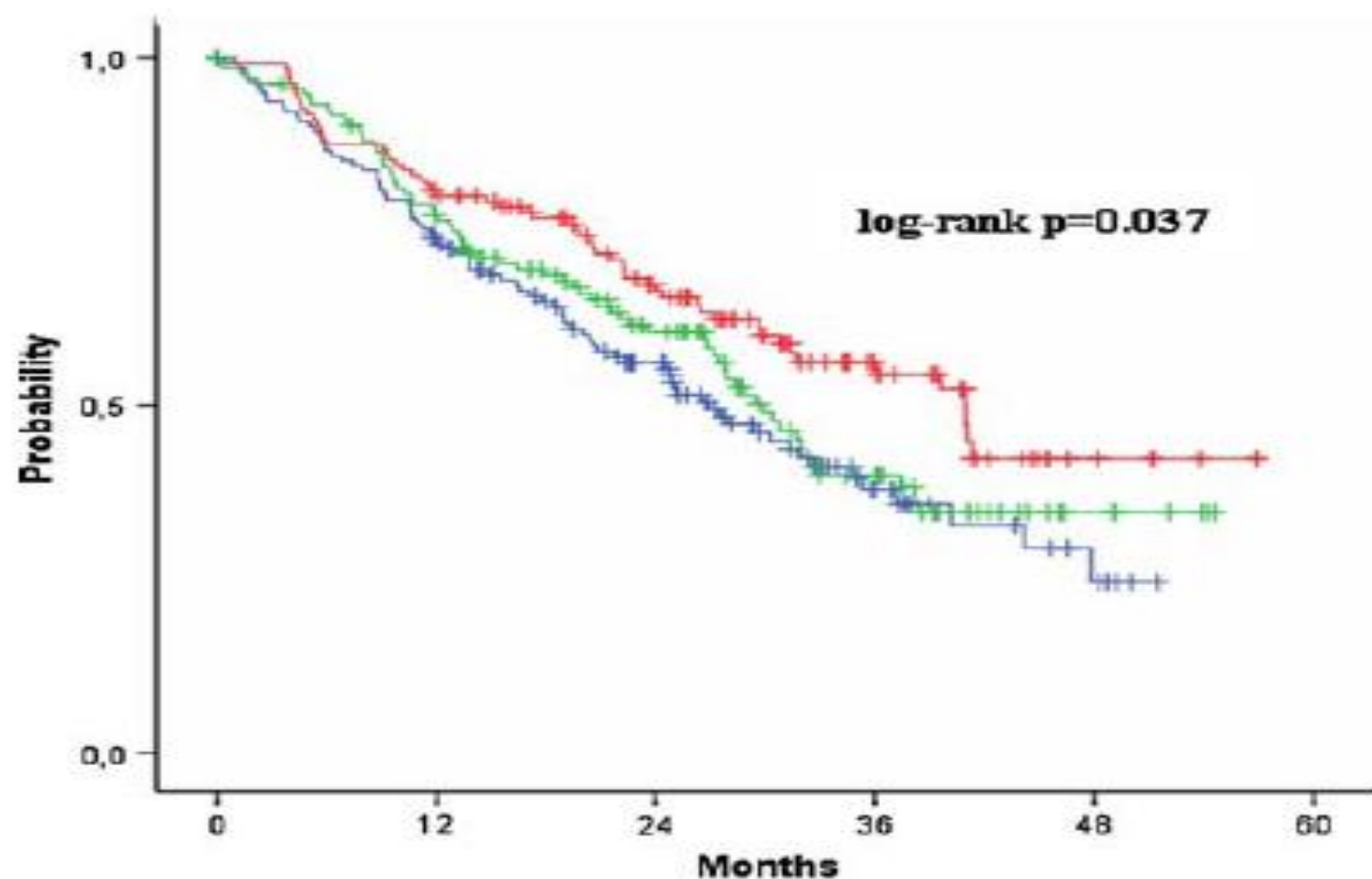
Annals of Oncology
doi:10.1093/annonc/mdn634

Economic evaluation of taxane-based first-line chemotherapy in the treatment of patients with metastatic breast cancer in Greece: an analysis alongside a multicenter, randomized phase III clinical trial

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Patients at risk

PCb	136	101	62	28	6
GDoc	144	102	64	21	5
Pw	136	108	72	32	7

Fig. 2 Survival of patients treated with PCb (—), GDoc (—), or Pw (—) ($P = 0.037$)

Table 3. Treatment cost (EUR) per item and treatment group (undiscounted)

	PCb (<i>n</i> = 131)	GDoc (<i>n</i> = 134)	Pw (<i>n</i> = 133)
Total cost	20 498 (19 044–22 020)	19 343 (18 088–20 570)	20 578 (19 249–21 985)
Chemotherapy	12 687 (11 853–13 516)	11 198 (10 490–11 872)	11 934 (11 239–12 614)
Bisphosphonates	768 (362–1395)	745 (562–935)	448 (303–606)
Erythropoietin	740 (487–1052)	931 (617–1307)	834 (554–1123)
Granulocyte colony-stimulating factor	694 (508–902)	876 (701–1063)	397 (266–542)
Hormonotherapy	477 (382–578)	499 (412–589)	517 (415–629)
Hospitalization	464 (421–521)	880 (809–957)	947 (892–1004)
Laboratory exams	203 (185–222)	255 (227–285)	350 (309–394)
Imaging	2190 (2065–2322)	2088 (1952–2224)	2187 (2047–2336)
Trastuzumab	2275 (1576–3010)	1871 (1289–2507)	2963 (2057–4012)

Figures in parentheses represent 95% lower and upper uncertainty intervals.

PCb, paclitaxel with carboplatin; GDoc, gemcitabine with docetaxel; Pw, weekly paclitaxel.

Table 5. Incremental cost (EUR) per life year saved of Pw versus GDoc for various patient subgroups

	PS0	PS1	TNo	TYes	HER2 OvNo	HER2OvYes
Mean	6878	Dominance	Dominance	Dominance	Dominance	26 162
Standard deviation	38 641	9941	2662	267 734	3344	510 242
95%LUI	Dominance	Dominance	Dominance	Dominance	Dominance	Dominance
95%UUI	20 158	Dominance	3197	1935	1371	227 270
	HTNo	HTYes	MET1	MET2	MET3	AGE70
Mean	5396	199	12 948	1831	Dominance	Dominance
SD	104 626	2465	76 140	18 152	5938	165 095
95%LUI	Dominance	Dominance	883	Dominance	Dominance	Dominance
95%UUI	24 731	4384	63 472	9850	5215	109 087

EUR, Euros; Pw, weekly paclitaxel; GDoc, gemcitabine with docetaxel; PS0, 1, performance status 0 or 1; TNo, Yes, trastuzumab administration no or yes; HER2OvNo, YES, HER2 overexpression no or yes; LUI, lower uncertainty interval; UUI, upper uncertainty interval; HTNo, Yes, hormonal therapy No or Yes; MET1, 2, 3, metastatic sites 1, 2, ≥3 at study entry; AGE70, age greater than 70.

Table 5.1 HTA agencies and units in Europe

Agency	Country	Since	Scope	Annual HTA budget (US\$ million) ^a	Population served (million)	Per capita HTA budget	Permanent staff	Consultants
CEDIT	France	1982	Regional	0.34	11.0	0.03	11	variable
CMT	Sweden	1984	Regional	1.5	n.a.	n.a.	17	5-8
SBU	Sweden	1987	National	6.8	9.0	0.76	33	variable 300
LBIGHTA ^a	Austria	1990	National	0.93	8.0	0.12	10	variable
CAHTA ^b	Spain	1991	Regional	2.4	7.0	0.34	45	150
MTU	Switzerland	1992	National	n.a.	7.6	n.a.	6	60
OSTEBA	Spain	1992	Regional	0.3	2.1	0.14	6	40
AETS	Spain	1994	National	0.6	46.1	0.01	11	80
FinOHTA	Finland	1995	National	2.0	5.1	0.39	18	65
VSMITVA	Latvia	1995	National	0.05	2.3	0.02	8	variable
AETSA	Spain	1996	Regional	0.9	7.5	0.12	15	variable
NCOHTA	United Kingdom	1996	National	21.6	69.8	0.36	36	variable
DACEHTA ^c	Denmark	1997	National	3.8	5.4	0.7	15	variable
NHSC	United Kingdom	1998	National	1.2	60.0	0.02	7	variable
AVALIA-t	Spain	1999	Regional	0.35	2.7	0.13	7	variable
MTV-Aarhus	Denmark	1999	Regional	n.a.	n.a.	n.a.	n.a.	n.a.
DAHTA	Germany	2000	National	1.5	80.0	0.19	8	variable
ZonMw	Netherlands	2001	National	13.5	16.0	0.84	7	variable
MTV-Odense	Denmark	2001	Hospital	n.a.	n.a.	n.a.	n.a.	n.a.
A. Gemelli	Italy	2001	Hospital	n.a.	n.a.	n.a.	n.a.	n.a.
KCE	Belgium	2002	National	3.1	10.3	0.3	35	variable
NHS QIS ^d	United Kingdom	2003	Regional	0.8	5.1	0.16	15	variable
NOKO ^e	Norway	2003	National	4.0	4.5	0.89	30	100
ROHTO	Finland	2003	National	n.a.	5.1	n.a.	n.a.	n.a.
UETS	Spain	2003	Regional	0.8	6.0	0.13	10	variable
IQWiG	Germany	2004	National	17.0	80.0	0.21	70	variable
AHTAPol	Poland	2005	National	3.6	38.2	0.09	40	variable
HAS ^f	France	2006	National	1.0 (60.0) ^h	65.0	0.01-1.2	17	225
HIQA	Ireland	2007	National	n.a.	4.2	n.a.	n.a.	n.a.

Consultations

- ▶ MoorLDI2 Burns Imager - a laser Doppler blood flow imager for the assessment of burn wounds: medical technologies consultation
- ▶ Follicular non-Hodgkin's lymphoma - rituximab: appraisal consultation
- ▶ Thrombocytopenic purpura - romiplostim: second appraisal consultation
- ▶ CG47 Feverish illness in children: review proposal consultation
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- Lymphoma, non-hodgkin's (6)
- Melanoma (4)
- Metastasis (8)
- Myelodysplastic syndrome (1)
- Myeloma (4)
- Oesophageal cancer (3)
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- Sarcoma (2)
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- Πρέπει να εκμεταλλευτούμε την εμπειρία των υπολοίπων ευρωπαϊκών χωρών στην παροχή υπηρεσιών υγείας
- Απαιτούνται νέες υποδομές, στοιχεία, δεξιότητες, κριτήρια λήψης αποφάσεων και κουλτούρα
- Απαιτείται ολιστική και τεκμηριωμένη με στοιχεία και αναλύσεις λήψη αποφάσεων σε όλα τα επίπεδα



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ΑΘΗΝΩΝ 1929-1994



Ευχαριστώ θερμά για την προσοχή σας!

