

Matching the supply of doctors with Alberta's needs.

Professor Des Gorman MD PhD

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The Edinburgh Declaration of Medical Education 1988

**How many doctors does
Alberta need?**

Is there an unmet health need that arises because a suitable doctor is not available in Alberta?

**What can we learn from
looking at comprehensive
surveys of unmet health
need in EU countries?**

Eurostat 2013	Cost barriers	Travel barriers	Waiting time barriers	Non health system factors	Total unmet need (% of total pop.)
Sweden	0.5	0.2	1.2	11.7	13.6
France	2.1	0.1	0.5	3.5	6.2
Germany	0.6	0.1	0.8	4.5	6
UK	0.1	0.1	1.4	1.5	3.1
Switzerland	1	0	0.1	1.2	2.3
Netherland	0.1	0.1	0.3	1.1	1.6

Eurostat 2013	Non health system factors	Total unmet need (% of total pop.)
Sweden	11.7	13.6
France	3.5	6.2
Germany	4.5	6
UK	1.5	3.1
Switzerland	1.2	2.3
Netherlands	1.1	1.6

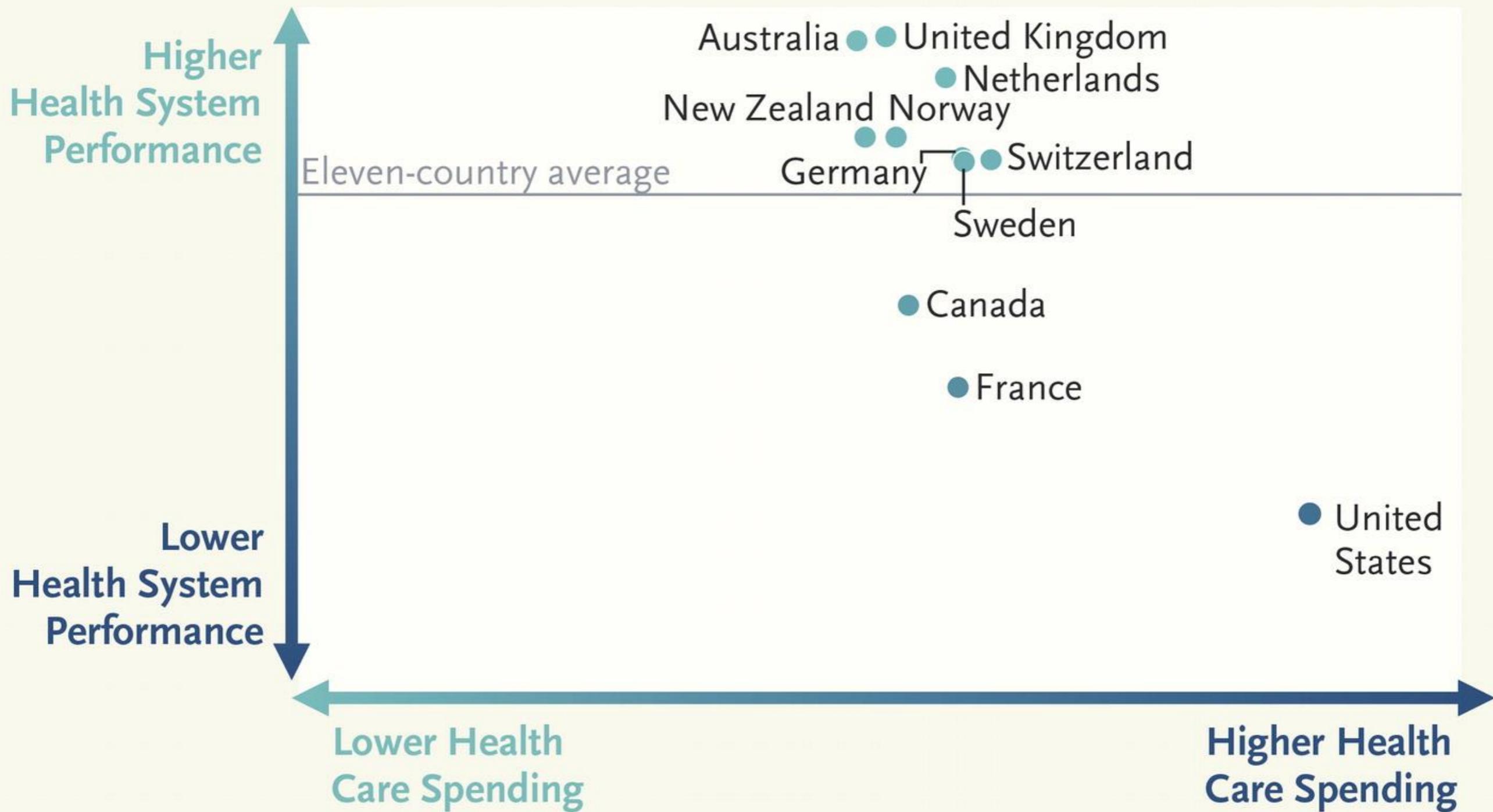
What conclusions can you draw about health care in comparison to other service industries in the context of these data?

**Auntie's story and the
comparison of virtual
services in banking versus
the uptake of virtual
healthcare**

What impact would a widespread take up of virtual healthcare, and particularly in community settings, have on the need for doctors?

Eurostat 2013	Cost barriers	<i>Annual health spend per capita in USD</i>	Total unmet need (% of total pop.)
Sweden	0.5	3,925	13.6
France	2.1	4,118	6.2
Germany	0.6	4,495	6
UK	0.1	3,905	3.1
Switzerland	1	5,643	2.3
Netherlands	0.1	5,099	1.6

	% GDP health spend	CF Ranking
UK	9.9	1
Australia	9.0	2
Netherlands	10.9	3
New Zealand	9.4	4
Norway	9.3	
Sweden	11.2	6
Switzerland	11.4	
Germany	11.0	8
Canada	10.0	9
France	11.1	10
USA	16.6	11



Schneider & Squires N Engl J Med 2017; 377 (10): 1-4

Eurostat 2013	Waiting time barriers	Doctors per 1,000 pop. (ratio of OECD mean)	Total unmet need (% of total pop.)
Sweden	1.2	1.1	13.6
France	0.5	1.1	6.2
Germany	0.8	1.1	6
UK	1.4	0.7	3.1
Switzerland	0.1	1.2	2.3
Netherlands	0.3	1.2	1.6

**Based on these data,
increasing the number of
doctors or health funding, in
isolation, would predictably
have little impact on the
level of unmet health need
in these EU countries.**

**The number of doctors
that any jurisdiction needs
depends upon what the
doctors do.**

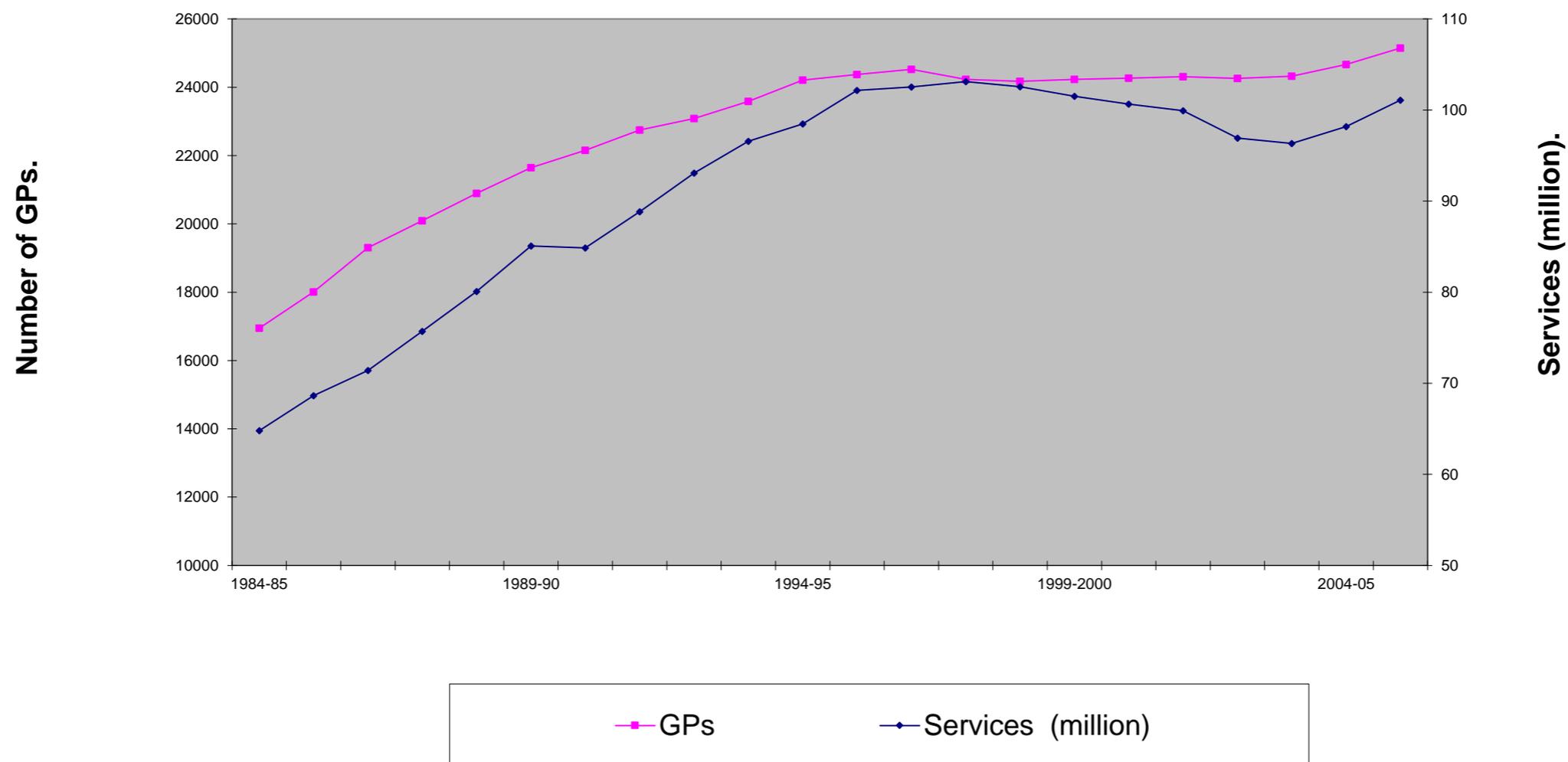
The Soweto Story

**The number of doctors that
are apparently needed to
meet need will also depend
upon how they are
recognised, remunerated
and rewarded.**

Relationship between GP numbers and services in the Australian fee-for-service health system

Dr Ian McRae (Australian National University)

GP Numbers and GP Services 1984-85 to 2005-06



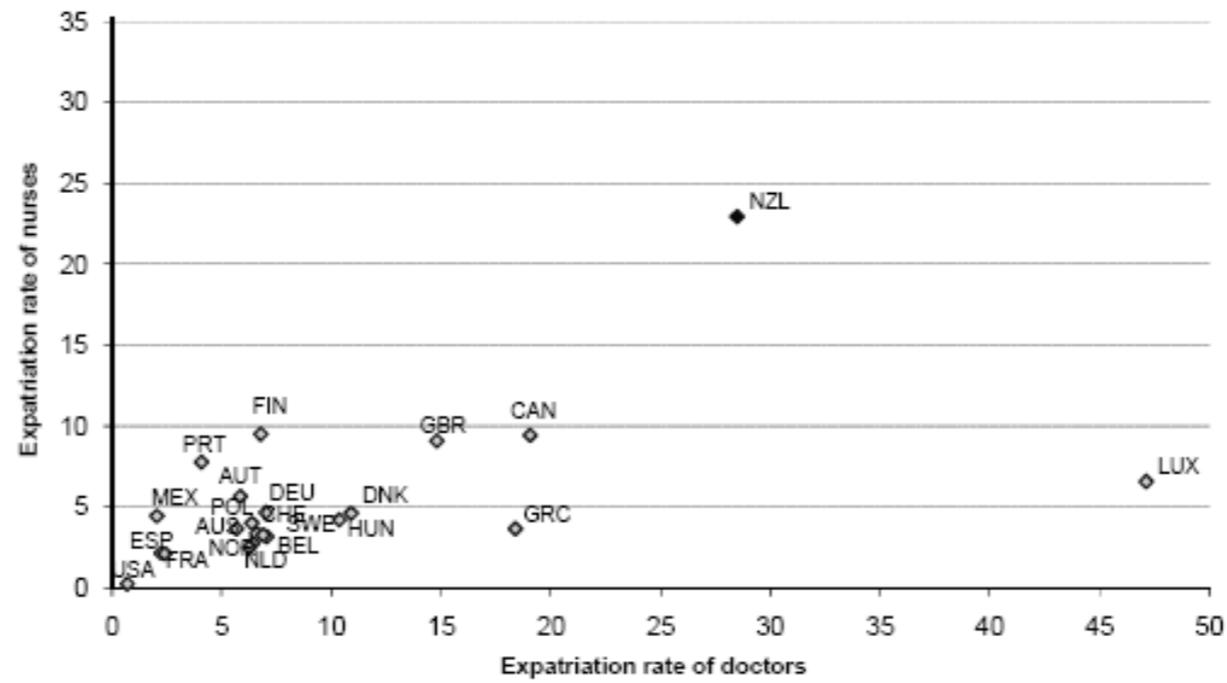
**TLT commissioning, informed
consumer driven health
spend and an evolutionary
approach to workforce
development**

The New Zealand approach

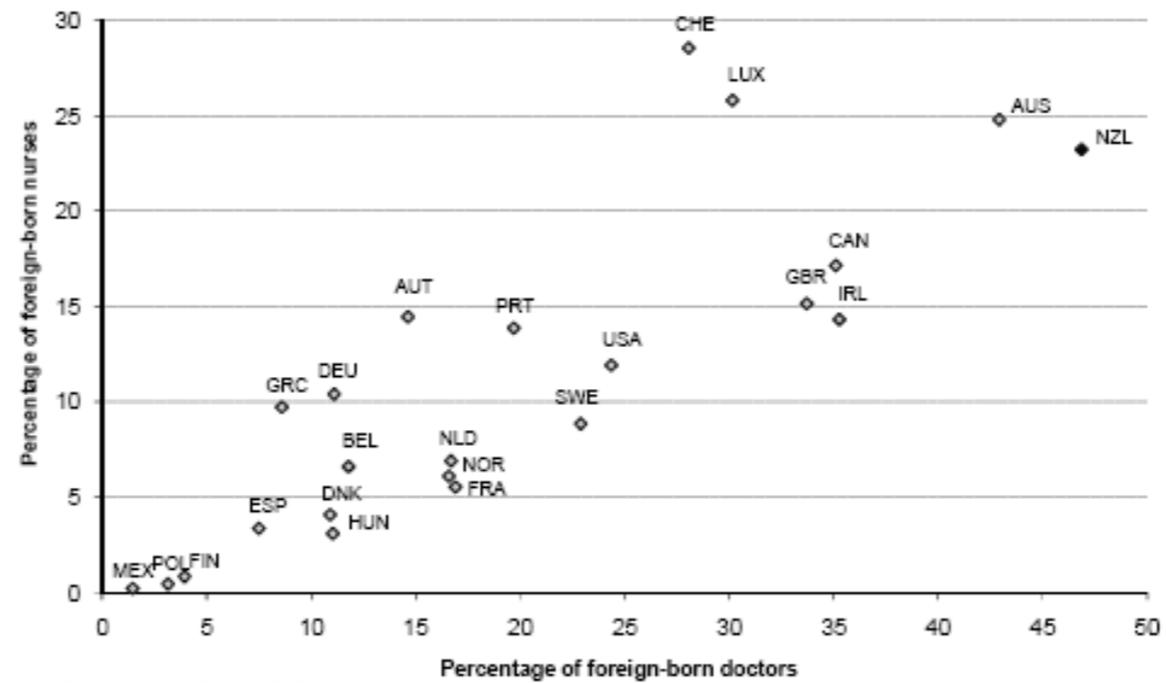
**Zurn P, Dumont J-C. Health
workforce and international
migration: can New Zealand
compete? WHO
DELSA/HEA/WD/HWP (2008)3**

Country or Region	Ratio of doctors per 1,000 in 2004
All OECD nations	3.1
Australia	2.5
New Zealand	2.2
Canada	2.05

Chart 7. Expatriation rates and percentages of foreign-born doctors and nurses, selected OECD countries, circa 2000



Source: Dumont and Zum (2007)



Source: Dumont and Zum (2007)

**We need to test the basic
premises of these WHO
assumptions.**

**On what basis is a ratio of 3.1
doctors/1,000 population a
meaningful statement of
anything?**

Australia and Canada's workforce planning was driven by provider to population ratios as compared to critical analyses of unmet health.

**Fréchette, D., et alia, Findings from the
Royal College's employment study. Ottawa,
Ontario: The Royal College of Physicians and
Surgeons of Canada. © 2013 Royal College
of Physicians and Surgeons of Canada**

Australia is graduating 1,000 more doctors than there are vocational training positions.

Advantages of an over-supplied medical labour market:

- (1) more competitive markets for procedures and interventions that will lower costs if managed properly;**
- (2) the displacement of doctors to under-served areas and disciplines;**
- (3) behaviourally sound recognition, reward and remuneration schema for doctors.**

Disadvantages of an over-supplied medical labour market:

(1) doctor unemployment and consequent poor returns on training investment;

(2) social disruption for displaced doctors;

(3) reversion of innovative models to previously disrupted practices to employ more doctors.

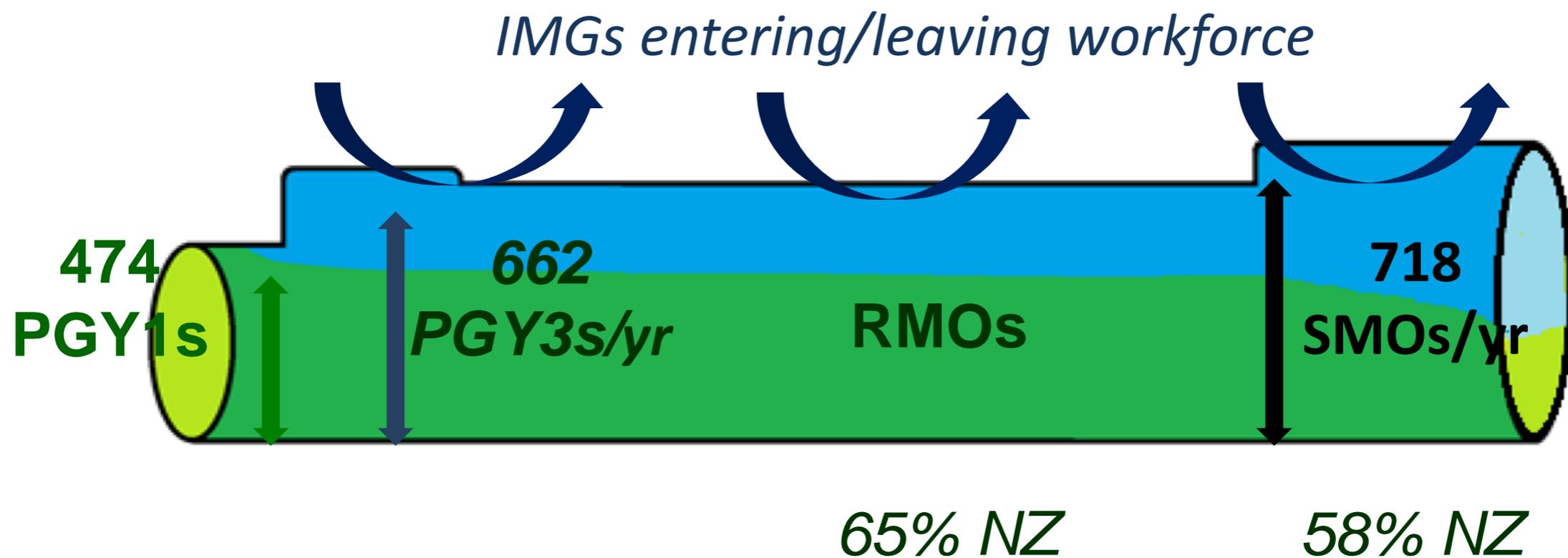
**The Zealand Approach – the
OECD nations on average have
40% too many doctors!**

Given the structural flaws in and perverse funding of the New Zealand health system, the usual high-quality clinical outcomes must be due to the quality of the health workforce.

**It follows that whatever investments
you make in workforce development,
the quality of the clinical training
experience should never be
compromised.**

**200 additional medical students
in 2008 based on system capacity
to accommodate learners
without compromise.**

The second question is whether a reliance on IMGs is sustainable?



Besides not considering them as a homogeneous group, the need is to consider IMGs as an asset to be managed carefully and not as a problem.

Approaches to determining doctor supply:

- (1) Traditional 'linear' modeling based on projected provider ratios;**
- (2) Qualitative forecasting based on health need;**
- (3) Combined quantitative and qualitative approaches;**
- (4) Agnostic evolutionary approaches.**

OECD nations are probably over-supplied with doctors, but health data suggest those doctors are not well distributed to meet need.

**What works in aligning the
medical workforce to better
meet health need?**

Selection processes
Undergraduate pedagogy
Immediate PG exposure
Sound behavioural economics
Targeted vocational training
Career factor attention
Social engineering

**The quality of healthcare in
Alberta is probably largely
dependent on the quality of the
health workforce such that ...**