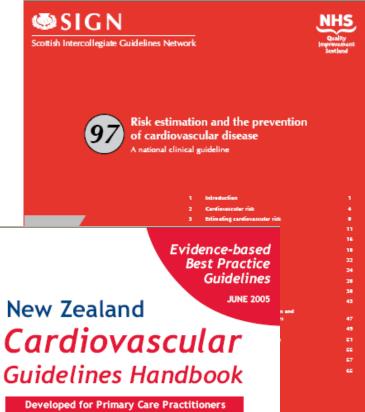
Dangerous Caring: Why having a Good Doctor may be bad for your health

Dee Mangin
University of Otago Christchurch
New Zealand



drew blood from his body forced him to vomit violently gave him a strong laxative shaved his head applied blistering agents to his scalp put special plasters made from pigeon droppings onto the sole of his feet fed him gallstones from the bladder of a goat made him drink 40 drops of extract from a dead man's skull



CD Rom included

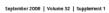
February 2007

Risk Assessment Atrial Fibrillation **Heart Disease** Stroke **Diabetes Smoking Cessation**











Canadian Journal of Diabetes

Canadian Diabetes Association 2008 Clinical Practice Guidelines for the Prevention and Management of Diabetes in Canada

Canadian Respiratory Journal

Executive Summary

Canadian Thoracic Society Recommendations for Management of Chronic Obstructive Pulmonary Disease - 2003

Résumé

Recommandations de la Société Canadienne de Thoracologie relativement au traitement de la Maladie Pulmonaire Obstructive Chronique - 2003

> (Revised translation/traduction révisé) Nov. 2003

JOURNAL OF THE CANADIAN THORACIC SOCIETY JOURNAL DE LA SOCIETE CANADIENNE DE THORACOLOGIE

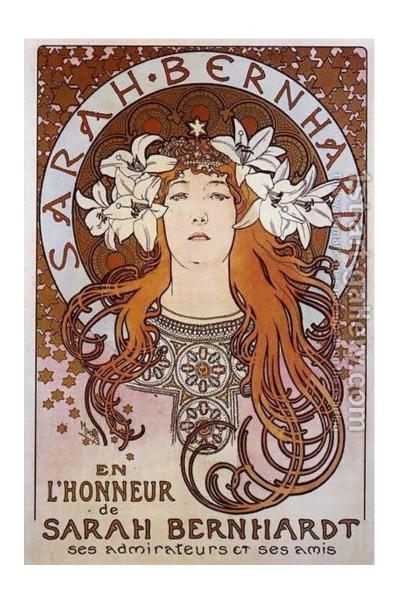
Medical section of THE ± LUNG ASSOCIATION

L'ASSOCIATION PULMONAIRE





Sacred Monsters



Bax: Some of the witnesses we have had have described these guidelines as a framework, within which to work... Does that fit in with how you saw the guidelines?

That: They are exactly what they say, guidelines, they are not the law. They are guidelines.

Bax: Did they have to be followed?

That: Of course they have to be followed, but they are not strict law. That is why they are guidelines and not law and, of course, they have to be applied according to the relevant circumstances.

Bax: They are expected to be followed?

That: Of course they have to be followed. They need to be followed for what they are, guidelines

Hypothetical 79 year old Woman

- COPD
- Type 2 diabetes
- Hypertension
- Osteoarthritis
- Osteoporosis



Applying Guidelines

- 19 doses of 12 different medications
- Taken at five times during the day
- 14 non pharmacological activities
- 10 different possibilities for significant medicine interactions either with other medicines or other diseases

Dangerous Caring: the new pandemic

- Hospitalisation die to medicine adverse events in older adults 17%
- Adverse drug reactions 4-6th most common cause of death (US)



Nananda Cet al Archives of Internal Medicine, Vol. 150, No.4 (Apr. 1990) Lazarou J et al *JAMA*. 1998;279:1200–5.

1000 older adults

- Annual healthcare costs of ADR's US \$65,631
- US \$27,365 of this associated with preventable events – that is US \$27 million for every million older adults in the community

By 2025 there will be 1.2 billion people >65

Half of people over 65 have at least 3 coexisting chronic conditions

About one in five have 5 or more

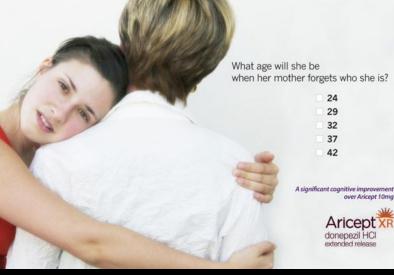
Average number of drugs taken by this group = 7

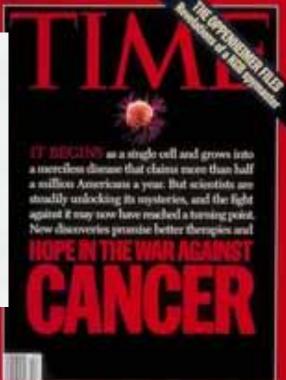








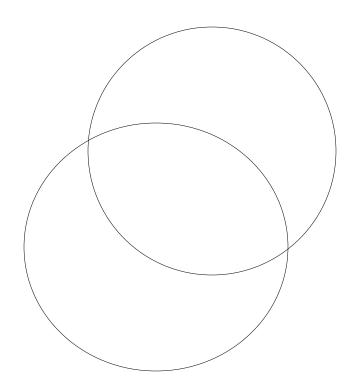




The basis of the 'evidence' base

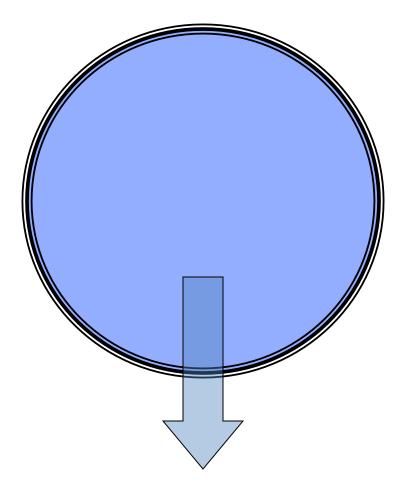
- Commercially constructed data
 - Biased data trial data hidden
 - Designs biased towards efficacy rather than safety
- Largely exclude older populations and those with multiple diseases
- Only 10% of guidelines recommendations based on level A data
- Guideline groups captured by industry 4/5 members have a conflict with the treatments under consideration

Clinical state and circumstances



Patients' preferences and actions

Research evidence



Improved health outcomes



The focus of medical care has shifted from patients and the diseases that make them suffer, to the diseases themselves and their measurement within the patient

Focus on the disease

Guidelines converted to targets and pay for performance structures are designed to drive care along single disease lines

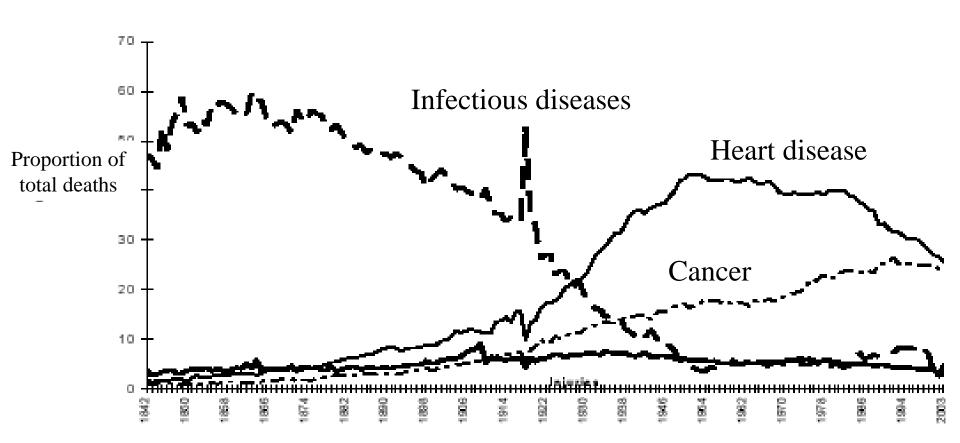
Aim for standardisation and adherence



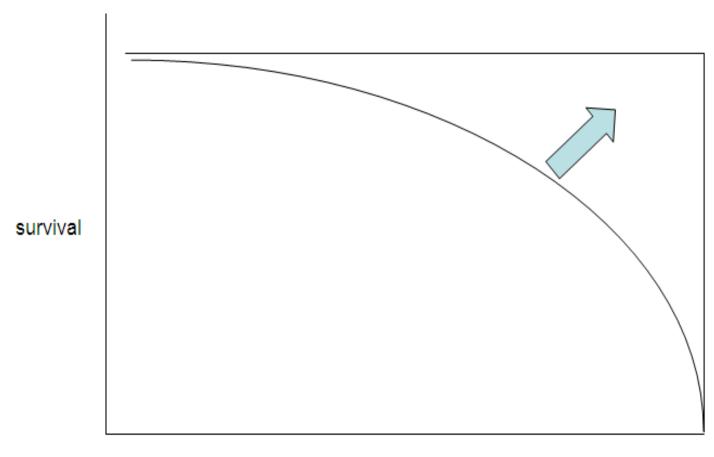
Paying for performance

"I find myself considering whether to start an elderly female patent on a fourth antihypertensive in order that she will fall as I predict she will and I can then exception report her in order to maintain the target"

UK Professor of General Practice



Patient priorities: Perverse incentives and unethical outcomes





Evidence-based Best Practice Guidelines

JUNE 2005

New Zealand Cardiovascular Guidelines Handbook

Developed for Primary Care Practitioners

CD Rom included



People aged ≥75 years should be treated in the same way as younger people.

> Older people gain a similar relative benetit trom cholesterol lowering, but are more likely to benefit in absolute terms because of their much higher pretreatment cardiovascular risk

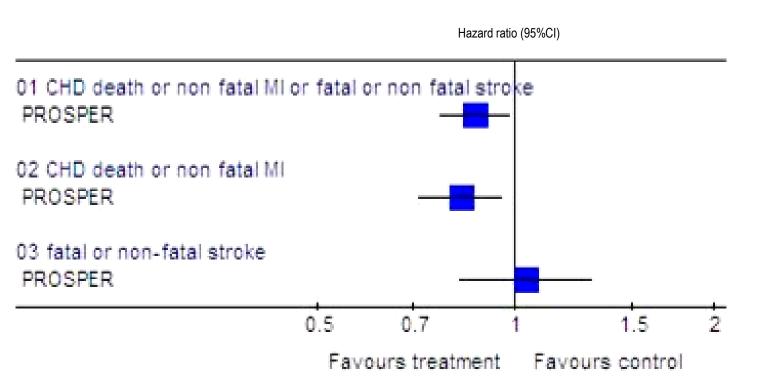








Cholesterol drugs over age 70



Shepherd J, Blauw GJ, Murphy MB, Bollen EL, Buckley BM, Cobbe SM, et al. Pravastatin in elderly individuals at risk of vascular disease (PROSPER): a randomised controlled trial. Lancet 2002;360:1623-

James Shepherd, Gerard J Blauw, Michael B Murphy, Edward L E M Bollen, Brendan M Buckley, Stuart M Cobbe, Ian Ford, Alian Gaw, Michael Hyland, J Wouter Jukema, Adriaan M Kamper, Peter W Macfarlane, A Edo Melnders, John Norrie, Chris J Packard, Ivan J Perry, David J Stott, Brian J Sweeney, Clillan Twomey, Rudi G J Westendorp, on behalf of the PROSPER study group*

Summary

Background Although statins reduce coronary and cerebrovascular morbidity and mortality in middle-aged individuals, their efficacy and safety in elderly people is not fully established. Our aim was to test the benefits of pravastatin treatment in an elderly cohort of men and women with, or at high risk of developing, cardiovascular disease and stroke.

Methods We did a randomised controlled trial in which we assigned 5804 men (n=2804) and women (n=3000) aged 70-82 years with a history of, or risk factors for, vascular

disease to pravastar (n=2913). Baseline 4-0 mmol/L to 9-0 average and our p coronary death, non non-fatal stroke. Ana

Findings Pravastatin by 34% and reduce to 408 events cor ratio 0-85, 95% heart disease dearisk was also reduc

risk was unaffected (1·03, 0·81–1·31, p=0·8), but the hazard ratio for transient ischaemic attack was 0·75 (0·55–1·00, p=0·051). New cancer diagnoses were more frequent on pravastatin than on placebo (1·25, 1·04–1·51, p=0·020).

However, incorporation of this finding in a meta-analysis of all pravastatin and all statin trials showed no overall increase in risk. Mortality from coronary disease fell by 24% (p=0-043) in the pravastatin group. Pravastatin had no significant effect on cognitive function or disability.

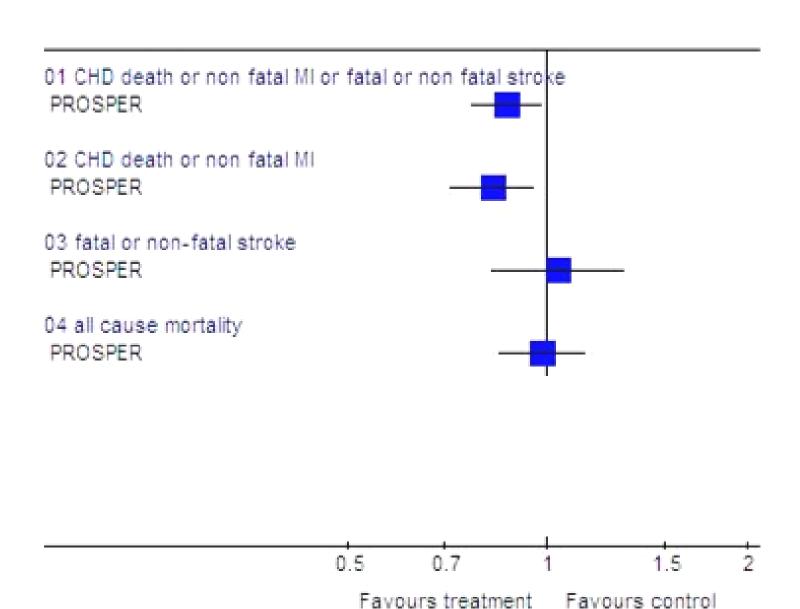
Interpretation Pravastatin given for 3 years reduced the risk of coronary disease in elderly individuals. PROSPER therefore extends to elderly individuals the treatment strategy currently used in middle aged people.

Lancet 2002; 360: 1623-30. Published online Nov 19, 2002 http://image.thelancet.com/extras/02art8325web.pdf

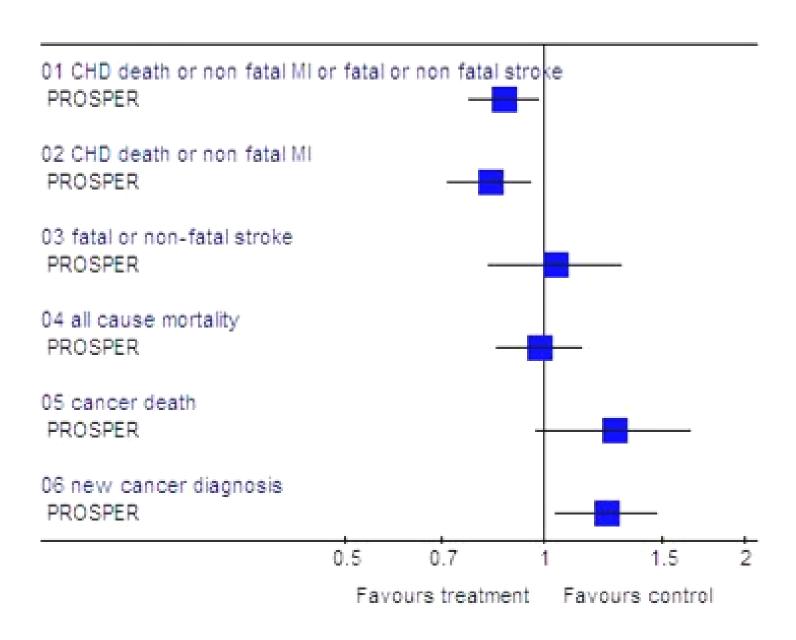
Interpretation Pravastatin given for 3 years reduced the risk of coronary disease in elderly individuals. PROSPER therefore extends to elderly individuals the treatment strategy currently used in middle aged people.

University Department of Pathological Biochemistry (Prof J Shepherd MD, A Gaw MD, Prof C J Packard DSc), North Glasgow University NHS Trust; Robertson Centre for Biostatistics (Prof I Ford Pho, J Norrie MSc), and Division of Cardiovascular and Medical Sciences (Prof S M Cobbe MD, Prof P W Macfarlane DSc) increasing age.²⁴ The frequency of stroke, an important manifestation of vascular disease in elderly individuals, is associated with hypertension and seems independent of plasma cholesterol.¹⁰ However, investigators of previous statin trials¹¹ have reported benefits on stroke, and results of observational studies have raised the possibility that statins could reduce the rate of cognitive decline in elderly people.¹² However, in the oldest old people, low plasma cholesterol is associated with increased mortality.¹⁵ In view of these conflicting observations, we concluded that the balance of the efficacy and safety of cholesterol

^{*}Members listed at end of paper



D Mangin, K Sweeney, I Heath BMJ 2007;335;285-7



James Shepherd, Gerard J Blauw, Michael B Murphy, Edward L E M Bollen, Brendan M Buckley, Stuart M Cobbe, Ian Ford, Alian Gaw, Michael Hyland, J Wouter Jukema, Adriaan M Kamper, Peter W Macfarlane, A Edo Melnders, John Norrie, Chris J Packard, Ivan J Perry, David J Stott, Brian J Sweeney, Clillan Twomey, Rudi G J Westendorp, on behalf of the PROSPER study group*

Summary

Background Although statins reduce coronary and cerebrovascular morbidity and mortality in middle-aged individuals, their efficacy and safety in elderly people is not fully established. Our aim was to test the benefits of pravastatin treatment in an elderly cohort of men and women with, or at high risk of developing, cardiovascular disease and stroke.

Methods We did a randomised controlled trial in which we assigned 5804 men (n=2804) and women (n=3000) aged 70-82 years with a history of, or risk factors for, vascular

disease to pravastar (n=2913). Baseline 4-0 mmol/L to 9-0 average and our p coronary death, non non-fatal stroke. Ana

Findings Pravastatin by 34% and reduce to 408 events cor ratio 0-85, 95% heart disease dearisk was also reduc

risk was unaffected (1·03, 0·81–1·31, p=0·8), but the hazard ratio for transient ischaemic attack was 0·75 (0·55–1·00, p=0·051). New cancer diagnoses were more frequent on pravastatin than on placebo (1·25, 1·04–1·51, p=0·020).

However, incorporation of this finding in a meta-analysis of all pravastatin and all statin trials showed no overall increase in risk. Mortality from coronary disease fell by 24% (p=0-043) in the pravastatin group. Pravastatin had no significant effect on cognitive function or disability.

Interpretation Pravastatin given for 3 years reduced the risk of coronary disease in elderly individuals. PROSPER therefore extends to elderly individuals the treatment strategy currently used in middle aged people.

Lancet 2002; 360: 1623-30. Published online Nov 19, 2002 http://image.thelancet.com/extras/02art8325web.pdf

Interpretation Pravastatin given for 3 years reduced the risk of coronary disease in elderly individuals. PROSPER therefore extends to elderly individuals the treatment strategy currently used in middle aged people.

University Department of Pathological Biochemistry (Prof J Shepherd MD, A Gaw MD, Prof C J Packard DSc), North Glasgow University NHS Trust; Robertson Centre for Biostatistics (Prof I Ford Pho, J Norrie MSc), and Division of Cardiovascular and Medical Sciences (Prof S M Cobbe MD, Prof P W Macfarlane DSc) increasing age.²⁴ The frequency of stroke, an important manifestation of vascular disease in elderly individuals, is associated with hypertension and seems independent of plasma cholesterol.¹⁰ However, investigators of previous statin trials¹¹ have reported benefits on stroke, and results of observational studies have raised the possibility that statins could reduce the rate of cognitive decline in elderly people.¹² However, in the oldest old people, low plasma cholesterol is associated with increased mortality.¹⁵ In view of these conflicting observations, we concluded that the balance of the efficacy and safety of cholesterol

^{*}Members listed at end of paper

Conflict of interest statement

The authors declare the following arrangements with the sponsoring company or other companies, or both, making competing products. Consultancy agreements: J Shepherd, M B Murphy, I Ford, B M Buckley, S M Cobbe, J W Jukema, C J Packard. Research support, honoraria, travel grants: J Shepherd, G J Blauw, M B Murphy, E L E M Bollen, B M Buckley, S M Cobbe, I Ford, A Gaw, M Hyland, J W Jukema, P W Macfarlane, A E Meinders, J Norrie, C J Packard, D J Stott, R G J Westendorp.

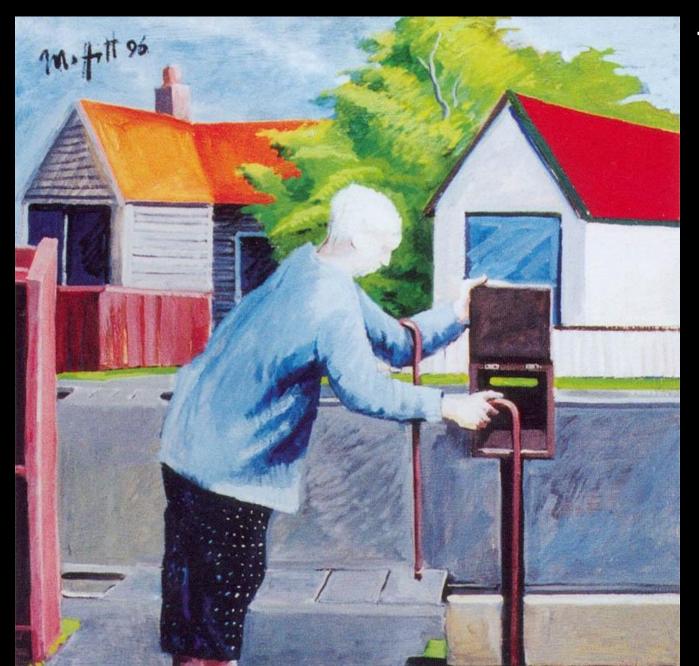
Acknowledgments

We thank Sheena Brownlie for her administrative and secretarial help, and the following individuals and their staff, all of whom have worked with great enthusiasm and professionalism, contributing to the successful completion of this trial: recruitment of patients—Melvyn Percy, Karen McIntvre, Bernadette Stierhout, Helen Walsh, on behalf of all staff within the trial centres in Glasgow, Leiden, and Cork, and the Irish College of General Practitioners; psychometric testing—Peter Houx; MRI scanning—Mark A van Buchem; central laboratory—M Anne Bell, Christine Gourlay, ECG laboratory—Julian Allan, Louise Inglis, J Kennedy, Shahid Latif, Kathryn McLaren, Pamela Reay, Marianne Sneddon, Jean Watts; Robertson Centre for Biostatistics-Liz Anderson, Sharon Kean, Jan Love, Anne Nears, Michele Robertson; Biobank—Marijke Frölich; PROSPER administration centres—Liz Ronald, Jane Kent, Moira Mungall, Eleanor Dinnett, Jane Rush, Claire Gordon, Eileen McCafferty, Margaret McMurrough, Elizabeth Brown, Kirsty Simpson, Marjan Hornstra Moedt, Ilse van Gils, Natascha Zimmermann, Maria-Teresa Carroll, Maura Fallon, Leona Heaphy, Lisa Drinan, Ciara Roe, Denise Murphy, Nicholas Hern, Suzanne Doyle, Niamh O'Dwyer, Michelle Kavanagh, Gobnait Lynch, Noirin Deady, Margaret O'Donoghue, Sinead Murphy, Eimear Singleton, Imelda O'Meara, Shirley O'Donoghue, Emma Clarke, Annette O'Gormon, Clare Mills, Carmel Buckley, and the staff of the

three administrative centres

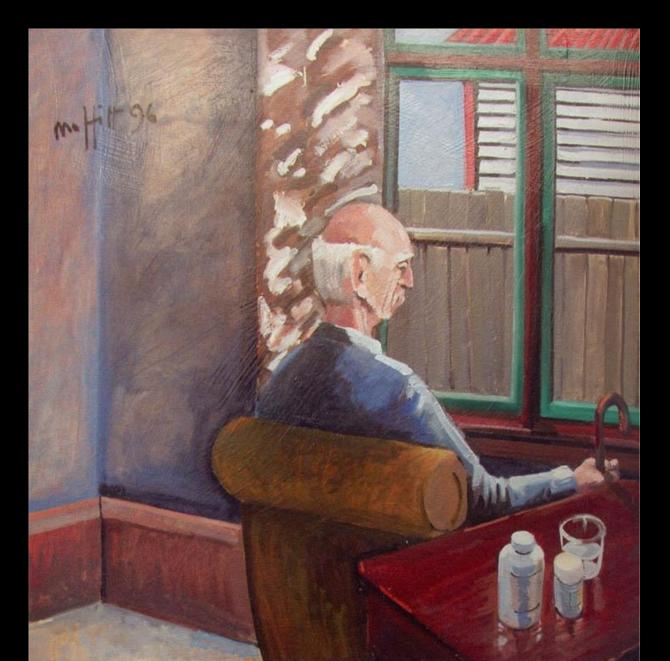
This work was supported by an investigator initiated grant from Bristol-Myers Squibb, USA.

The Empty Mailbox



T Moffitt

OK Grandad, You Look Out the Window and I'll be Back in 3 Hours



T. Moffitt

'I can't say I'm particularly bothered about heart disease. To a certain extent I'd rather go with a heart attack than drag on.'

'certainly something you dread, you know (cancer)...
a really unpleasant way to go ... I wouldn't wish it on anyone'

C. Emslie, K. Hunt, G. Watt. Coronary Care 2001 (5) 25-32



The Art of Not Doing, Well

"It is an art of no little importance to administer medicines properly: but, it is an art of much greater and more difficult acquisition to know when to suspend or altogether to omit them."

Philippe Pinel Treatise on Insanity



P4

Overall mortality and morbidity

	Study Group		Control Group		P - Value
n		119		71	
Death /yr	25	(21%)	32	(45%)	0.001
Referrals to acute care /yr	14	(11.8%)	21	(30%)	0.002

ORIGINAL INVESTIGATION

LESS IS MORE

Feasibility Study of a Systematic Approach for Discontinuation of Multiple Medications in Older Adults

Addressing Polypharmacy

Doron Garfinkel, MD; Derelie Mangin, MBChB

- 311 medications in 64 patients (58%) of drugs discontinued
- 4/5 didn't have to be restarted
- 80% reported a global improvement in health
- No adverse events from the discontinuations

Comparative Safety





Enter a drug name (e.g., Paxil)

Search

home | about us | RxISK stories | report a drug side effect | log in

All prescription drugs have benefits and side effects.



Find the right balance. RxISK is the drug safety website to research and report side effects.

No one knows a drug's side effects like the person taking it. Use this website to inform yourself on the drugs you are being prescribed. Take the next step and report any side effects you are experiencing to

Get a Free RxISK Report

Share your experiences with the prescription drugs you are taking and receive a free report to take to your doctor or pharmacist.



You've been handed a megaphone to help change drug safety. Make your voice heard!

Report a drug side effect

The RxISK Team



Sans....

Ask your doctor if this drug is not worth it for you

To improve the individual's experience of healthcare we must not define people by their sicknesses but rather treat them as a sick person

