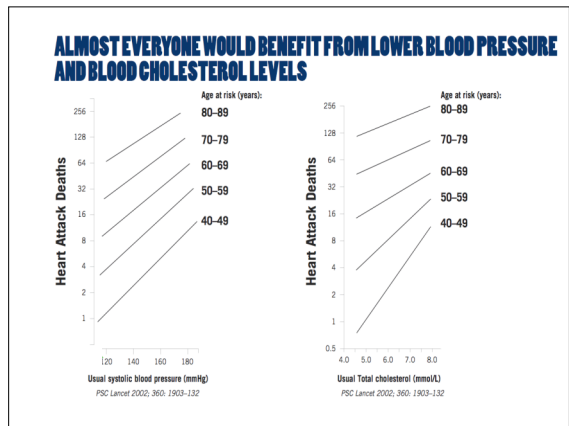
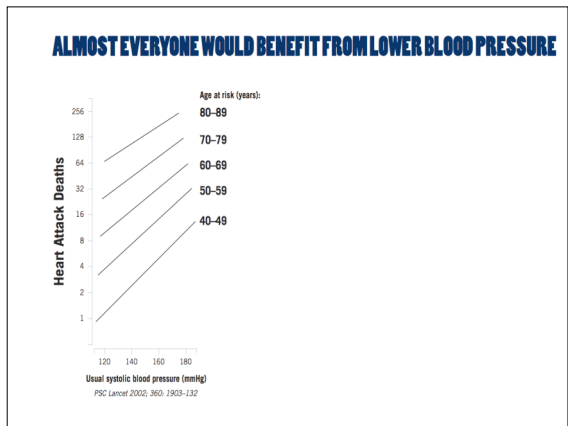
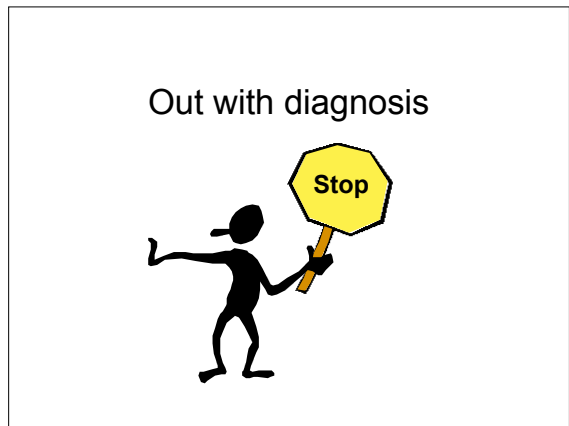
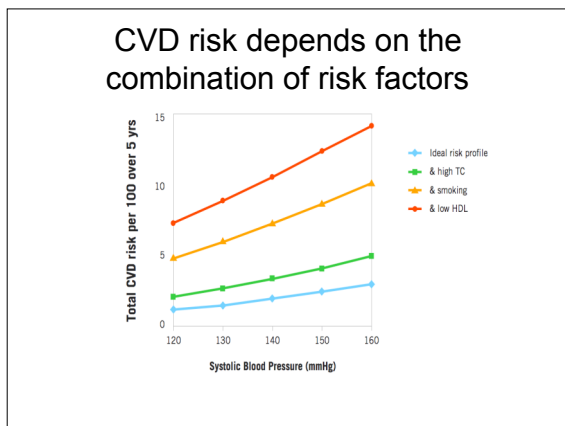
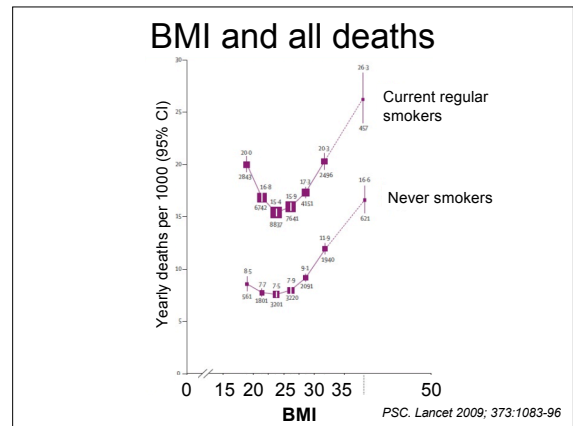
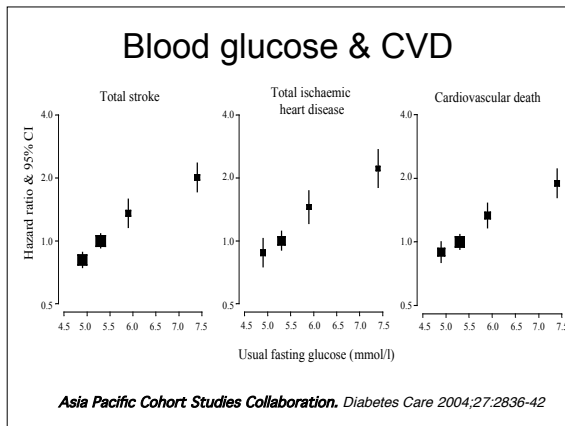


Presentation Outline

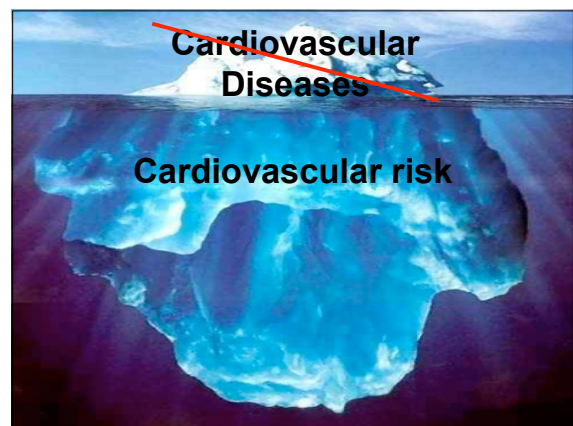
OUT: CVD 'disease' diagnoses
IN: CVD risk prediction
BARRIERS: complexity - understanding risk, communicating risk, accuracy of risk, and time to do it
SOLUTIONS: three-way electronic decision support systems

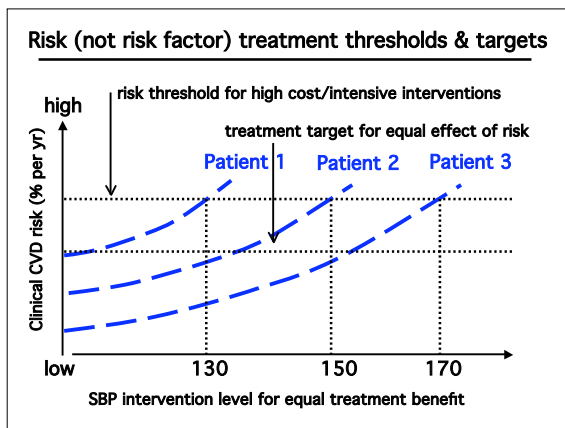
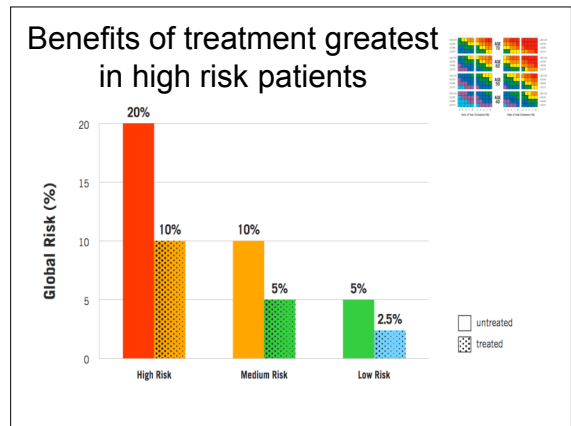
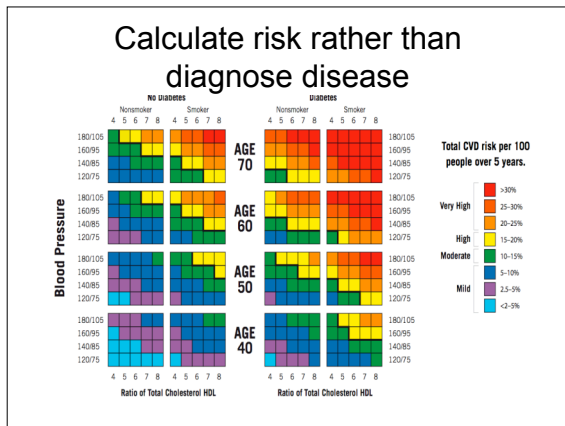




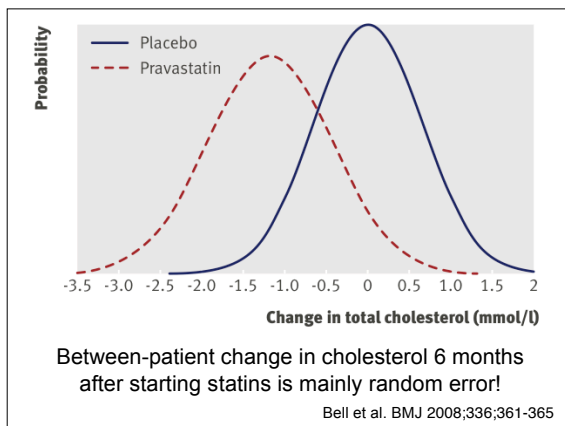
What is the clinical relevance of a diagnosis of:

- ♥ hypertension x
- ♥ hypercholesterolaemia x
- ♥ type-2 diabetes ?
- ♥ obesity x
- ♥ metabolic syndrome x
- ♥ MI (hypertropinaemia) ?

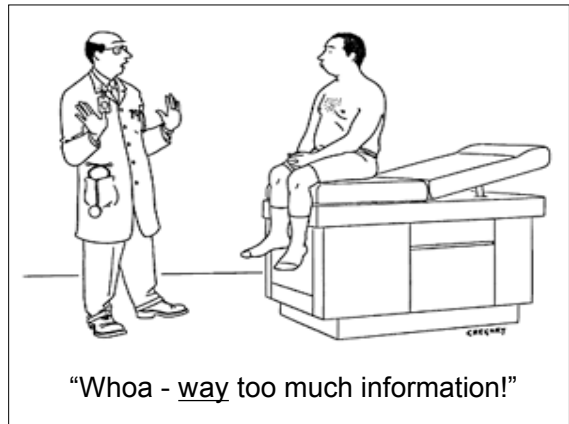
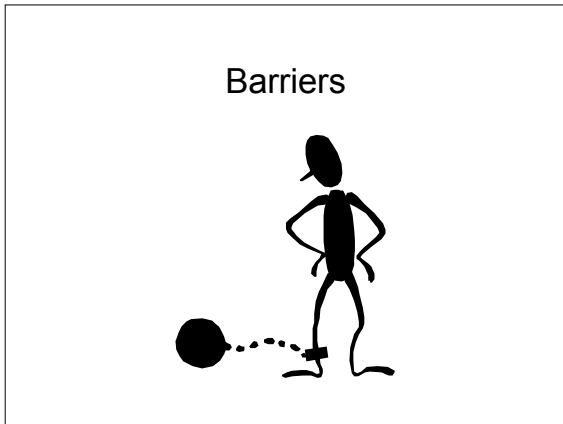




Treat with polypills: no more dose titration



AIM

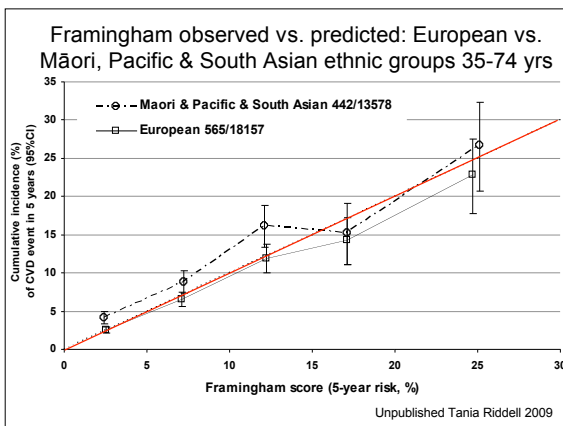
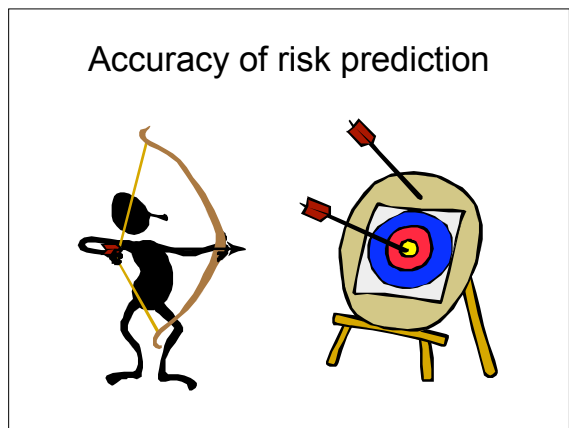


Estimating treatment benefits: Number Needed to Treat

Risk level: 5-year CV risk (fatal and non-fatal)	Benefits: NNT for 5 years to prevent one event (CVD events prevented per 100 people treated for 5 years)		
	1 intervention (25% risk reduction)	2 interventions (45% risk reduction)	3 interventions (55% risk reduction)
>30%	13 (7.5 per 100)	7 (14 per 100)	6 (16 per 100)
25-30%	20 (5 per 100)	11 (9 per 100)	9 (11 per 100)
20-25%	27 (4 per 100)	15 (7 per 100)	12 (8 per 100)
15-20%	40 (2.5 per 100)	22 (4.5 per 100)	18 (5.5 per 100)
10-15%	80 (1.25 per 100)	44 (2.25 per 100)	36 (3 per 100)
5-10%			
2.5-5%			

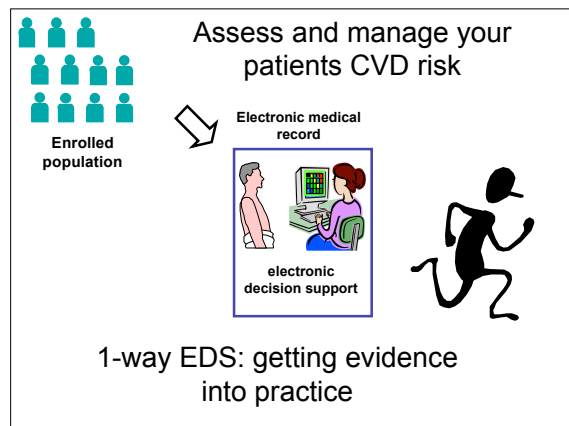
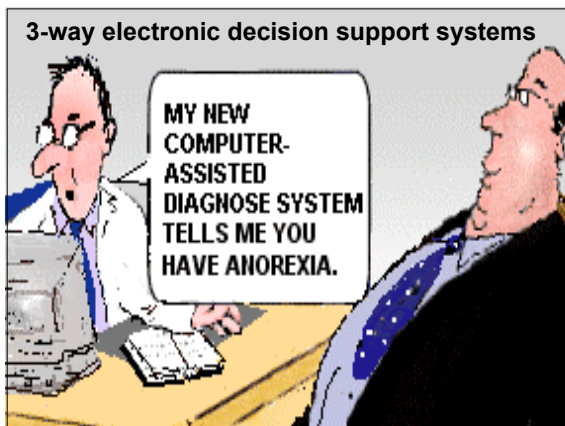
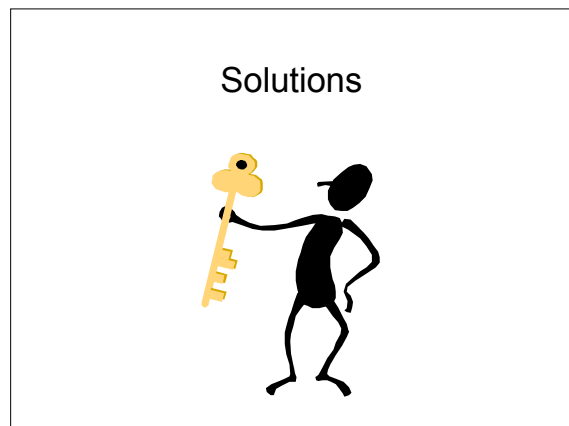
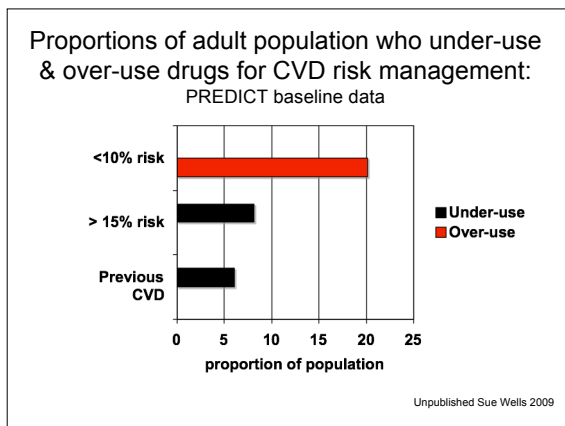
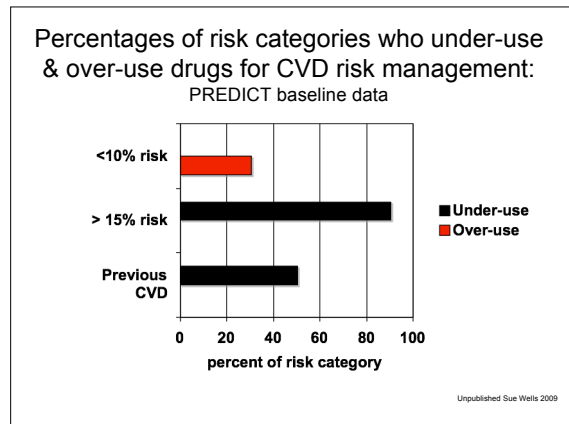
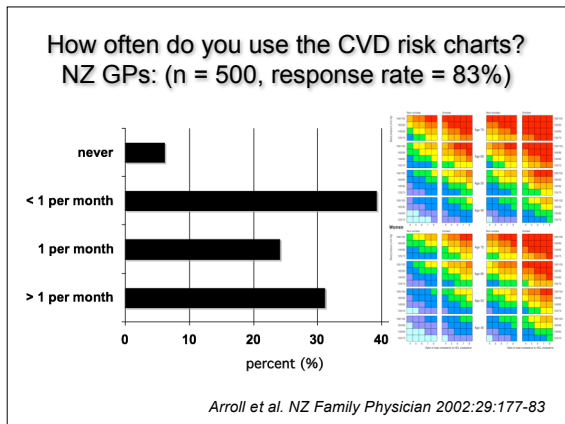
Based on the conservative estimate that each intervention: aspirin, blood pressure treatment (lowering systolic blood pressure by 10 mmHg) or lipid modification (lowering LDL-C by 20%) reduces cardiovascular risk by about 25% over 5 years.

2003 NZ CVD risk guidelines (www.nzgg.org)





The workload required to assess CVD risk in NZ

- One assessment per GP every other day for 46 weeks/year = 115 per year
- Typical GPs could assess all their eligible patients in less than 5 years



Introduction Step 1

www.yourheartforecast.org.nz

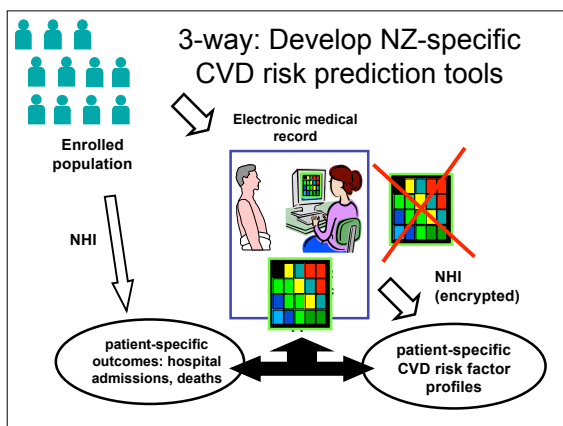
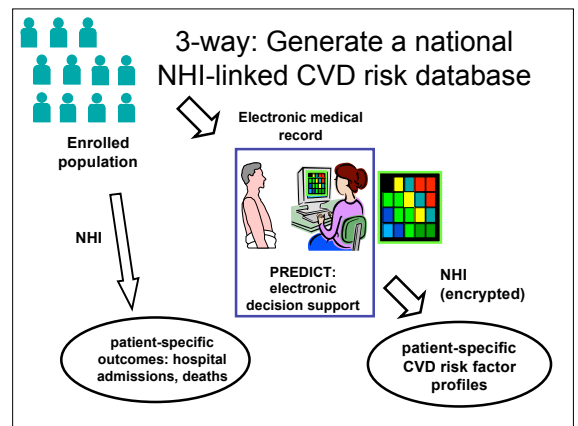
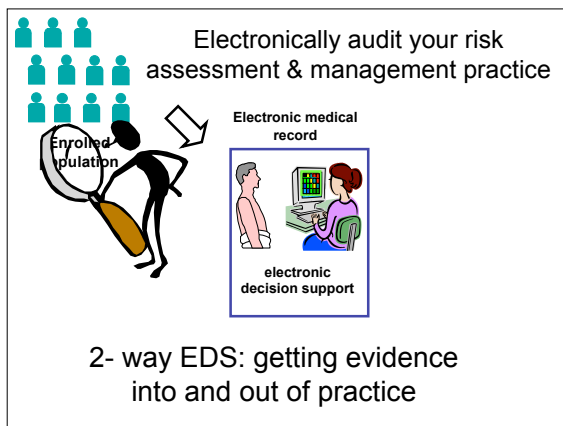
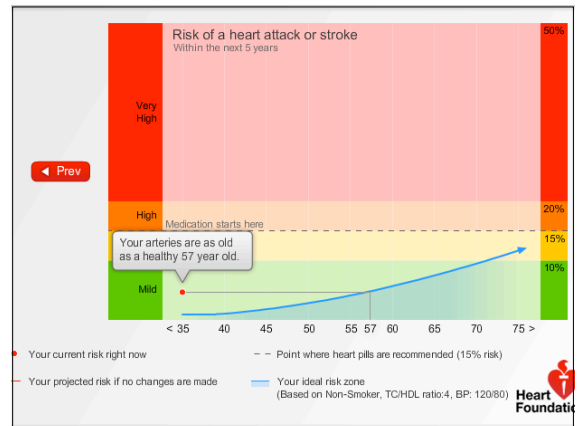



Your Heart Forecast
Showing your risk of a heart attack, stroke or other major problems with your arteries as you get older...

[Start](#)

Notes on usage (exclusions) | More information | Acknowledgements

CVD Risk Factors Step 2



The next revolution in healthcare will be electronic not genomic