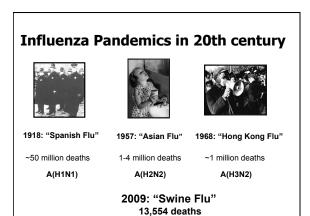
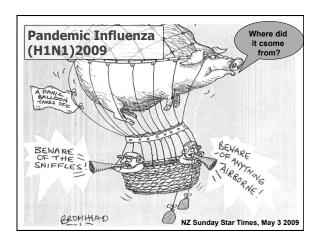
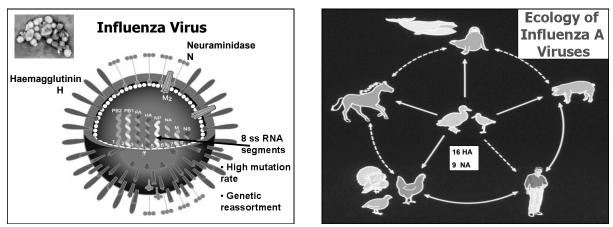
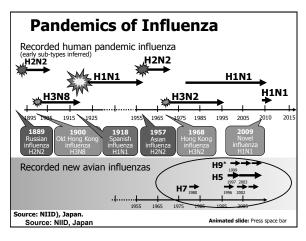


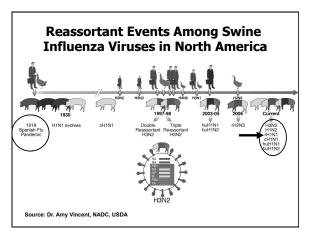
- in Asia
- Started in Mexico
- Expecting increased morbidity and mortality
 Mortality due to death from lab confirmed infection less than mortality modelled due to seasonal influenza

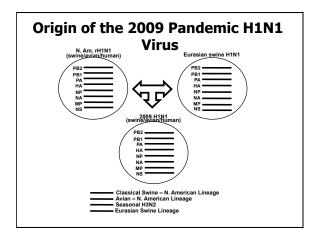


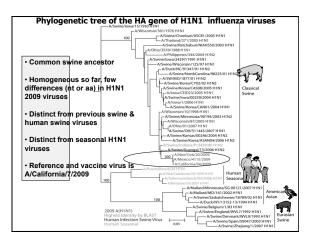


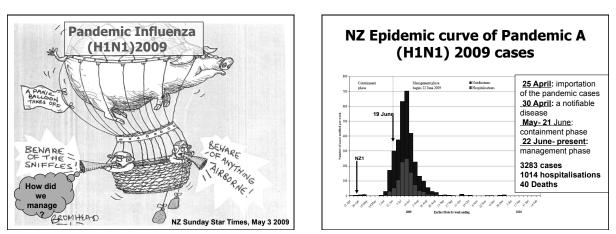


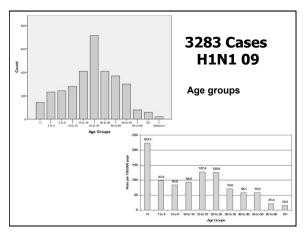


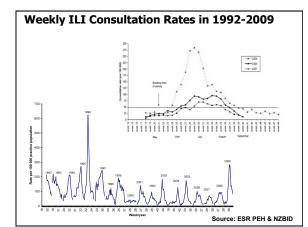


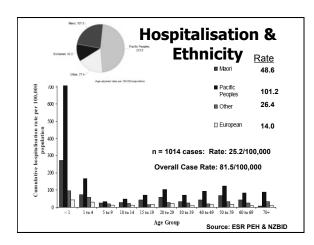


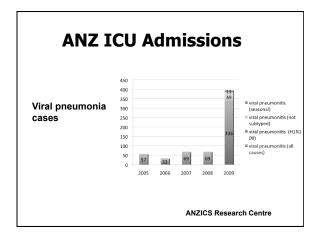


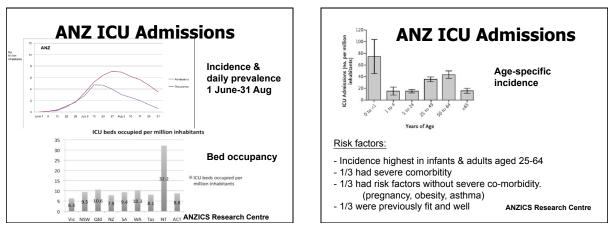






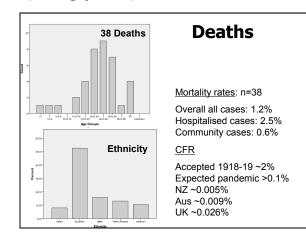


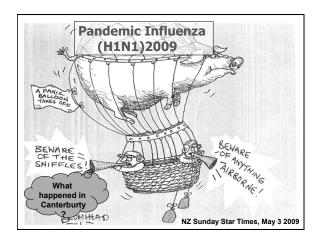




ANZ ICU Admission Summary 28.7 ICU admissions per million (856 admissions) 64.6% received mechanical ventilation mean 8 days 11.6% of ventilated patients treated with ECMO Median duration of stay 7.4days Median duration of stay 7.4days Incidence highest in infants & adults aged 25-64 1/3 had risk factors without severe co-morbidity (pregnancy, obesity, asthma) 1/3 were previously fit and well

• Survival 84.2% (16.2% died)

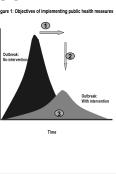


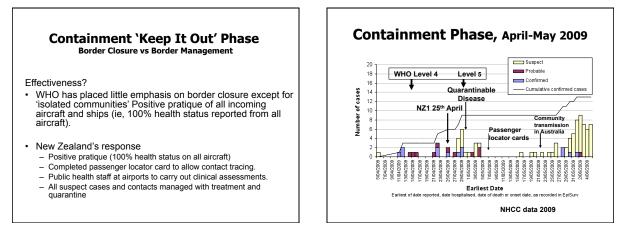


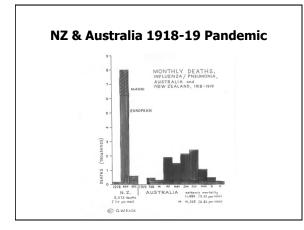
Goals of Public Health Intervention

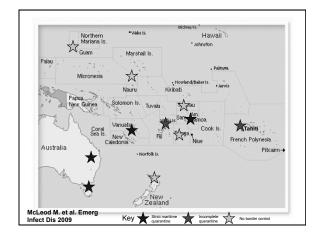
vliso

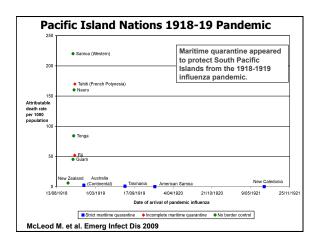
- Delay outbreak peak
- Delay spread and shift an epidemic curve to the right side
 - to reduce peak burden on health care facilities (e.g. hospitals)
 - to "buy time" for other measures (e.g. vaccination)
- Reduce morbidity and mortality through reducing the total number of cases

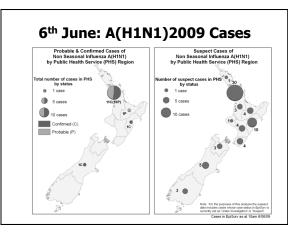


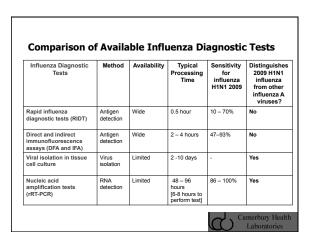


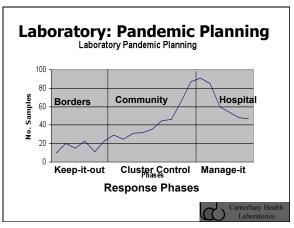


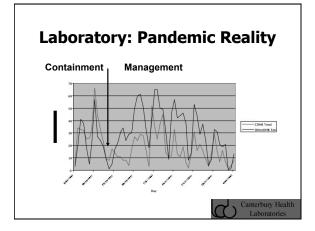


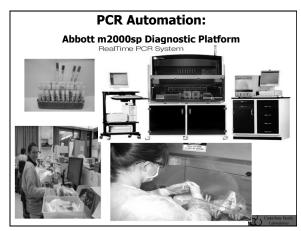


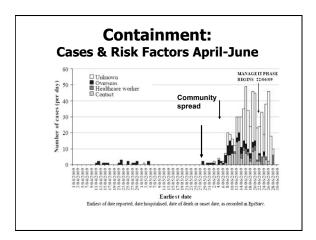


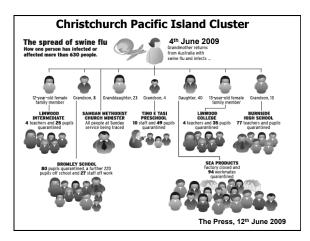


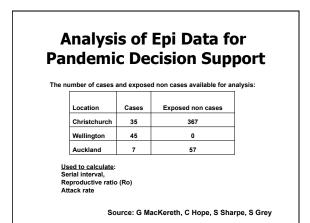












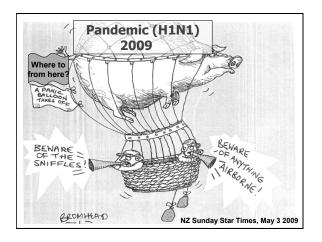
Possible risk factor	Risk group	Average effective reproductive ratio (n)	Serial interval or average onset to onset interval in day (n)
Sex	F	0.86 (44)	2.6 (35)
	м	0.81 (54)	3.4 (39)
Age group	0-5 years	(1.62 (29)	2.88 (24)
	6-12 years	0.23 (13)	2.42 (12)
	13-19 years	0.20 (10)	2.22 (9)
	20-39 years	0.66 (38)	3.30 (27)
	40-59 years	0.14 (7)	2.43 (7)
	60+ years	4.00 (1)	
Ethnicity	Samoan (Chch)	0.83 (54)	2.4 (46)
Ethnicity (taken from a subset of the data)	Asian	0.33 (3)	3 (2)
	European	0.52 (21)	3.9 (18)
	Maori	1.29 (7)	2.8 (4)
	Pacific	0.92 (60)	2.4 (50)
Onset to Tamiflu	0-2 day	0.77 (58)	3.1 (53)
interval	> 2 days	1.25 (30)	2.3 (15)
Grand Total		0.84 (98)	2.84 (79)

Cluster Control D	ata: Attack Rates
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Ethnicity of exposed	Count of exposed non cases	Count of exposed that became cases	Attack rate
European	42	7	14%
Samoan	83	35	30%
Age group of exposed			
0-5	90	29	24%
6-12	78	13	14%
13-19	115	10	8%
20-39	59	38	39%
40-59	39	7	15%
60 +	9	1	10%
Tamiflu Prophylaxis	388	1	0.26%
No Tamiflu Proph	36	97	85.84%

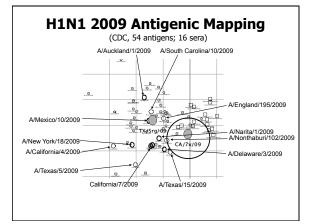
Did Containment work?

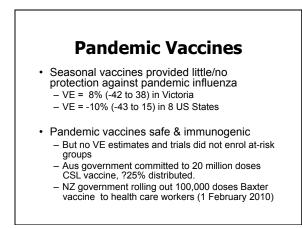
- Containment/cluster control phase in NZ successful (or just good luck?)
 - Contained spread for ~6.5 weeks
 - Extended containment phase allowed the planning & communication of key messages to public.
 - Stay at home message
 - If concerned phone GP or 0800 Health line
- No Crystal Ball
 - Can only learn from past pandemics
- · We must not become complacent

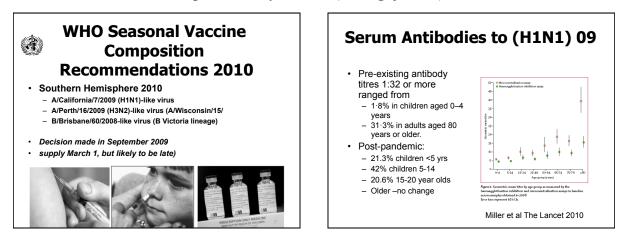


Has the H1N1 09 Virus Changed in Pathogenicity?

- D222G mutation in HA found in Norway
 & Ukraine
- ? Cause higher pathogenicity or are they selected in more serious cases (lung involvement)
- · Viruses not antigenically distinct



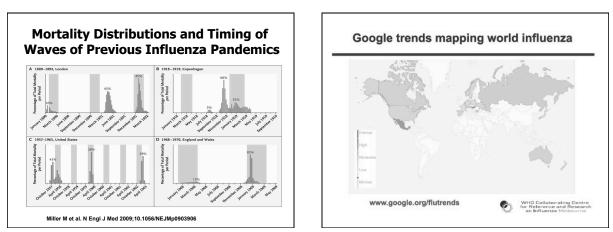


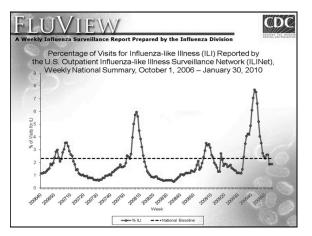


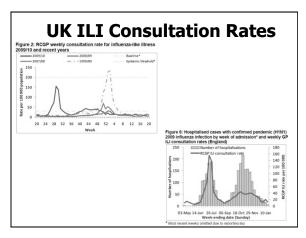
	Review S	easonal I	nfluenza
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	Neuraminidase inhibitors for preventing and treating influenza in healthy adults: systematic review and meta analysis I'm stream, summer literation, literation, literation adult literation and literation adults and literation adults and literation and literation adults and literation adults and literation adults and literation adults adults adults and literation adults adults adult		
en Breaster sieben. Sy System Selecter.	ARCENT ALAR ALAR ALAR AND		
	Measure	Oseltamivir	Zanamivir
	Symptomatic laboratory confirmed influenza	75mg 61% (0.18-0.85) 150mg 73% (0.11-0.67)	10mg 62% (0.17-0.85)
	Post exposure prophylaxis	58% (15-79%) Households: 84% (49-95%)	Households: 79% ¹
	Alleviation of ILI	1.20 (1.06-1.35)	1.24 (1.13-1.36)
	Reduction of influenza- related LRTIs	Not effective (0.22-1.35)	n/a

Antiviral Conclusions

- "The data suggest that NI's are effective at reducing the symptoms of influenza. The evidence is of modest benefit – reduction of illness by about 1 day."
- "Because of the moderate effectiveness of NI's we believe that they should not be used for the routine control of seasonal influenza."
- Independent randomised trials to resolve the uncertainties surrounding effectiveness are needed."







2010 SOUTH PACIFIC TELECLASS SERIES

17 FEB. 10 INFLUENZA HINI – THE SOUTHERN HEMISPHERE EXPERIENCE SPEAKER: DR. LANCE JENNINGS, NEW ZEALAND

21 APR. 10 MRSA – THE PATIENT EXPERIENCE SPEAKER: DR. RUTH BARRATT, NEW ZEALAND

3 JUN. 10 FROM OBSCURITY TO "SUPERBUG": THE RISE OF *CLOSTRIDIUM DIFFICILE* INFECTION SPEAKER: DR. TOM RILEY, AUSTRALIA

SUMMARY 2009-10

- Pandemic H1N1 dominated 2009 and still dominates in early 2010 little change (most A/Cal/7/2009-like)
- Influenza activity generally low in Nth Hemisphere normally at peak remains generally mild disease
- In China, increasing B activity in recent months no seasonal H1, little H3
- 2010 SH seasonal vaccine trivalent; contains H1N1 09; H3N2; B components
- 2010 SH Influenza season ?????
- Will we see a ripple or a wave?
- High level of exposure in 2009 (30% of children) Other adults (>53 years) refractory to pandemic H1N1 (pre 1957) Lower level of exposure in young adults 20-40 years (10-15%)
- ? ICU admissions & deaths lower in 2010



1 SEP. 10

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