





- Haemophilus influenza type b disease control
- Poliomyelitis close to eradication
- •
- Measles possible eradication •
- Mumps possible eradication
- Rubella possible eradication

















?need for a national campaign

Types of meningococcal disease

- Six capsular groups associated with invasive disease: A, B, C, Y, W-135, X
- Differ by their exterior polysaccharide capsule
- The frequency of different types differs from • country to country
- NZ currently major types B and C •
- Is in the community all the time in low numbers • Occasional outbreaks













- Herd immunity effects
- B vaccine.....Phase 3 Trials









1 (A A A A A A A A A A A A A A A A A A			GST and delive		on-	funded vacci	nes in NZ
	~		Protects against	Marcolaster	Price per docer	Reambers of desires required	
	Ro	tarix"	rotavirus	GSK	\$80.00	2 doses (before 24 weeks)	
	Va	rivax"	varicella (chickenpox)	MSD	\$50.00	1 dose 12 months-12 years or 2 doses if given from 13 years	
	Var	ilrix**	varicella (chickenpox)	GSK	\$50.00	1 dose 9 months-12 years or 2 doses if given from 13 years	
	Pre	renar"	pneumococcal disease	Pfizer (Wyeth)	\$112.00	1 dose if given after 2 years NB funded for children born after 1.1.08	
	Men	ingitec*	meningococcal disease group C	Pfizer (Wyeth)	\$75.00	3 doses before 12 months or 1 dose if given after 12 months	
	Gar	dasil*	human papillomavirus 6,11,16 and 18	CSL	\$128.50	3 doses for females 9-45 yrs and males 12-15 yrs NB funded for sirls born after 1.1.90	
	Воо	strix**	pertussis, tetanus and diphtheria	GSK	\$25.00	1 dose as a booster ^{2,1} Can be offered to adults for pertussis protection	
	Ad	acel*	pertussis, tetanus and diphtheria	Sanofi-Pasteur	\$25.00	1 dose as a booster Can be offered to adults for pertussis protection	
	19	OL*	polio	Sanofi-Pasteur	\$35.32	1 dose as a booster	
	Adao	al" Polio	pertussis, tetanus and diphtheria and polio	Sanofi-Pasteur	\$54.00	1 dose as a booster Can be offered to adults for pertussis protection with polio	
		cevax [™] CWY	meningococcal A, C, W ₁₃₅ and Y	GSK	\$30.00	1 dose. Do not use before 2 years	
		imune™ W-135	meningococcal A, C, W ₁₃₅ and Y	Sanofi-Pasteur	\$30.00	1 dose. Do not use before 2 years	
	Int	*sane	Influenza	Sanofi-Pasteur	\$150/10	Intradermal vaccine	
	Pneum	iovix*23	pneumococcal disease	MSD	\$40.00	1 dose. Do not use before 2 years	















Practice

- Early enrolment and good relationships
 Effective Practice Management systems
- Stable practice teams
- Effective and timely precallReducing missed opportunities

Providers

- General practitioners/practice nurses
 - -knowledge confidence

 - focus on population health for their community
 - lower ratio of nurses to children in the practice - perceptions of parental barriers

Parents/caregivers Effective antenatal information Supported antenatal decision-making Early Enrolment and engagement with general practice A et al "Understanu Jis-Harris H et al Imi t early childhood immunize od NZFP 31,5:303-306 200 predicting parental decisions about ec on education in the antenatal period i paration University of Auckland 2011 munisatio er in nrei Environment - Confidence/ trust in the science - Working well with media Communication approaches appropriate to

audiences arguments in the New Zealand print media Aust NZ J Pub ledia—Perspectives Presented by the Press J of Health Com les: Jessons from the MeNZB[™] immunisation campaign[®] N ed report for the Ministry of Health , Wellington 2011 rub Health April 2010 Communication Nov 2007 " NZMJ March 2009



public

















International Examples leading to reduction in coverage

- Polio vaccine and contraceptives Nigeria 2004
- Multiple sclerosis and HepB vaccine France
- Pertussis vaccine and brain damage internationally 1980s
- MMR and autism UK, 1998.....







Andrew Wakefield found 'irresponsible' by UK General Medical Council over MMR vaccine scare March 2010

Last week, the GMC ruled that Dr Wakefield had shown a "callous disregard" for children and acted "dishonestly" while he carried out his research. It will decide later whether to strike him off the medical register. BBC News 2/3/10



Sir Peter Medawar -Nobel Prize in Physiology or Medicine 1969

"I cannot give any scientist of any age better advice than that the intensity of the conviction that a hypothesis is true has no bearing on whether it is true of not". 1973



























397 would be predicted to have a spontaneous abortion

Black S, Eskola J, Siegrist C-A, Halsey N, MacDonald N, Law B, et al. The Lancet 2009 2010/1/1/;374(9707):2115-22.

Misunderstanding of safety surveillance • passive versus active surveillance

- CARM (Centre for Adverse Reaction Monitoring), University of Otago, Dunedin
 - Looking for warning signals
 - No denominator data

60











- Breast milk 8 species
- = > 10⁶ different foreign proteins



e de la		Mul	tiple	vaccines
		Year	Antige	ns
	-	1900	~200	(Smallpox vaccine)
	-	1960	~3217	(included smallpox vaccine and wPertussis)
	-	1980	~3041	(Included whole cell pertussis vaccine)
	-	2000	~50	
	-			s receiving NZ scheduled vaccines receive rent antigens at one time.















- "I do not believe in vaccines"
- Have you got any specific concerns around vaccines
- Would you like to talk further or receive further
- $\mathbf{2}^{nd}$ if appropriate raise a bit of dissonance
- Do you have any concerns about any of these diseases • Are you aware XXX will need to show an immunisation
- 3rd if hitting a brick wall stop digging





	2011 NZ Immunisation Schedule								
	DTaP-IPV- HepB/Hib	PCV	Hib	MMR	DTaP-IPV	dTap	HPV	Td	Influenza
6 weeks	Infanrix hexa°	Synflorix [®]							
3 months	Infanrix hexa°	Synflorix [®]							
5 months	Infanrix hexa°	Synflorix [®]							
15 months		Synflorix [®]	Act-HIB™	MMR II°					
4 years				MMR II°	Infanrix [®] - IPV				
11 years						Boostrix®			
12 years							3 doses Gardasil®		
45 years								ADT- Booster™	
65 years								ADT - Booster®	Fluvax® or Fluarix®



	Coming Soon
15 February	The Biofilm Hypothesis of Chronic Infection Speaker: Dr. Phillip Stewart, Center for Biofilm Engineering, University of Montana
01 March 12	Developing a Sustainable and Effective Approach to Hygiene and Infection Prevention in Home and Everyday Life Settings Speaker: Dr. Sally Bloomfield, International Scientific Forum on Home Hygiene
07 March 12	(FREE WHO Teleclass - Europe) Achievements in Improving Injection Safety Worldwide Speaker: Prof. Chuck Gerba, Liniversity of Arzona Sponsor: World Health Organization First Global Patient Safety Challenge
29 March 12	Water and Infection Control Speaker: Andrew Streifel, University of Minnesota
	www.webbertraining.com/schedulep1.php



February 12 Outbreaks of Vaccine Preventable Diseases -Communicating the Science and Closing the Gaps Dr Nikki Turner, University of Auckland, New Zealand

April 18 Central Line Associated Infection in ICU Professor M.L. McLaws, University of New South Wales, Australia

June 13 Hand Hygiene Initiatives in Australia Phil Russo, Hand Hygiene Australia

oor 19

Meningococcal Disease and the New Zealand Experience - Where to From Here Dr Tony Walls, University of Otago, New Zealand

December 5 (WHO Teleclass) New Developments in Infection Control for Renal Dialysis Prof. W.H. Seto, Queen Mary Hospital, Hong Kong