

# Ensuring the safety of vaccines in New Zealand

## Harnessing Opportunities and Options

Vaccine Safety Monitoring – What do we want to do in the future

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# Outline

- What we have
- What could be better
- Adding value

# What we have

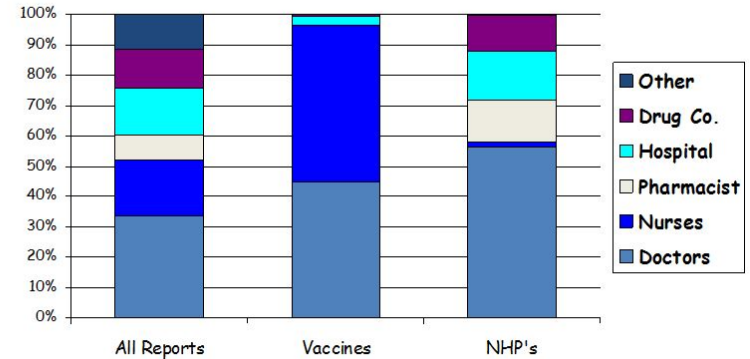
- Excellent Spontaneous reporting system
- Diligent committed & regular reporters

# NZ Pharmacovigilance Support

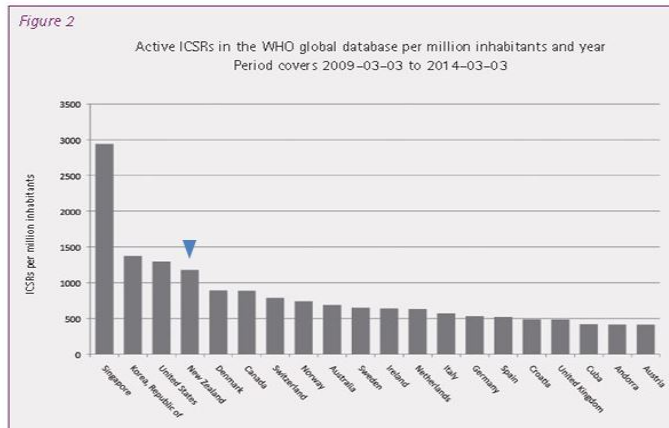
## Annual Total Reports Received by NZPhvC



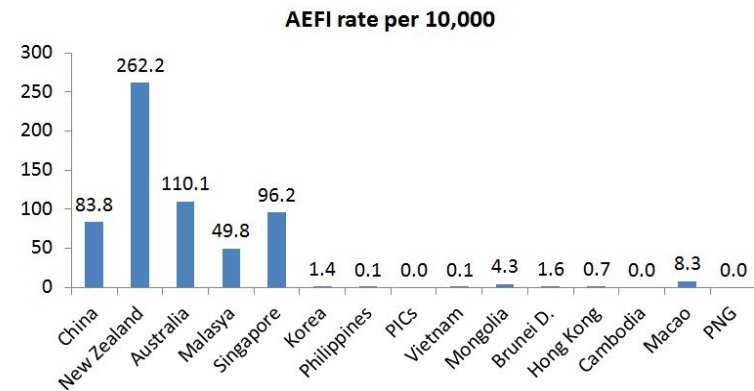
## Source of ADR/AEFI reports



## Global Reporting Rates 2014



## AEFI surveillance in the WPRO Region



Source: JRF, 2015 data; denominator used is target population x DTP3 coverage

# What we have

- Excellent Spontaneous reporting system
- Diligent committed & regular reporters
- Safety focused Regulator
- Well-established Immunization programme & NIR
- IMAC
- Diverse expertise in vaccinology & VSEAG
- Access to vaccine supply
- Distribution and cold chain
- Vaccinators
- Vaccine champions
- *Communicate & coordinate as required*



# VSEAG

- Informal peer collaboration
- N Turner, H Petousis-Harris, E Wilson, G Reynolds, C Miller, S Kenyon, M Tatley
- Forum for
  - ✓ discussion of individual cases,
  - ✓ communication on emerging vaccine safety issues,
  - ✓ opportunities for research

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# What could be better

- *New Vaccines* NZ safety profile – early insights
- Social media challenge and opportunity
- Widening the reporting base - Consumer reporting
- Centralizing NZ AEFI data
- Common terminologies & approaches
- Routine & Exception report reviews to key bodies
- Capitalize on Inter-agency expertise
- Coordinating research projects & databases
- Accessing pooled AEFI data



# Adding value

- Enhancing AEFI Surveillance mechanisms
- Improving analysis for patterns and signals
- Strengthening decision making & evaluation processes
- Optimising coordinated action

# Enhancing AEFI Surveillance mechanisms

Passive Routine Voluntary Vaccine Vigilance Surveillance

CARM – cornerstone of the NZ AEFI/ADR reporting system

*enhanced by*

- SMS follow-up & report submission option/encouragement
- Consumer-friendly reporting options
- Improved follow-up mechanisms (and electronic feedback?)

Active surveillance

'new' NZ vaccines/emerging events of concern

Near Real-time Vaccine Safety Monitoring

- Prospective – Intensive Vaccine Monitoring Programme



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Near Real-time Vaccine Safety Monitoring

- Prospective – Intensive Vaccine Monitoring Programme
- Near retrospective – CPRD / Vaccine Datalink approach

Data Linkage studies



# Improving analysis for patterns & signals

- 21<sup>st</sup> Century national pharmacovigilance database (AEFI/ADR)
  - Flexibility for changing requirements
  - Standardized dictionary with cross-linked matching (MedDRA/WHOART/ATC/SNOMED)
  - Interface with key NZ systems – NZHIS. NZULM. NIR, MWS, 'EHR'
  - Integrated SMO's/report building/statistical analysis and data mining utility
  - (wider report assessing resources)
- Data quality
  - Consensus on key terminology and algorithms
    - Reporting
    - Assessment/evaluation

## Centralised Database

- Accredited database access
- Networked analysis expertise



# Strengthening the decision making & evaluation processes

Sharing vaccine surveillance findings beyond Medsafe & MARC

- Harness
  - Contextual perspectives
  - Specialized expertise and clinical insight on issues or cases
- Broader awareness of typical and emerging issues
- Linkage to other related developments
  - Inform other initiatives
  - Inform understanding of issue
- Identify further actions

# Optimising coordinated action

Approach that enables

- Cross-sector network/working together
- Rapid responses
  - Proactive
  - Immediacy for emerging issues
- Source seen to be core cross sector
- Integrated in the public sector vaccine messaging space
  - Health professionals
  - Public
- Consistent (consensus)messaging
- Exploit multiple channels
  - Health Sector – Intranet messaging
  - Public sector – the ‘social media’

# Pulling it all together ....

