

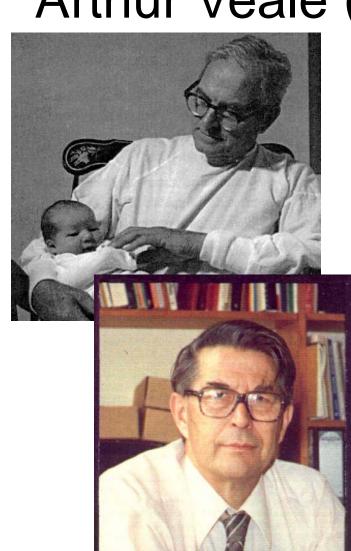
Interagency Cooperation Improves Quality of Newborn Baby Metabolic Screening

Dianne Webster
Diane Casey
Kathy Bendikson



- Background newborn screening in New Zealand
- Crisis
- Policy and Quality Standards
- Outcome

Bob Guthrie (1916-1995) Arthur Veale (1925-1987)



 Worked together on a national screening programme – complete coverage from May 1969

 Funded by Medical Research Council of New Zealand

 Then Ministry of Health POBOC funding



Along comes ...





- 4.4M people
- 65,000 births
- 20 Health
 Authorities





Cervical Cancer Audit Report

Screening of Women with Cervical Cancer, 2000–2002

Executive Summary

- Cervical cancer screening issue
- International review
- Recommendation setting up specialist screening unit within Ministry of Health

2005



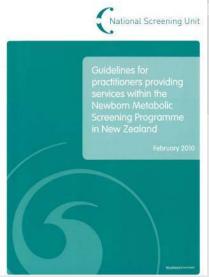
- National Screening Unit
- Specialist unit within Ministry of Health
- Funds screening through contract with local hospital laboratory
- Takes care of policy, audit, funding
- Nb all screening and treatment government funded



Quality – informed workforce



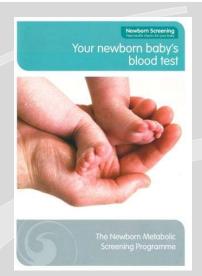




- Best practice DVD for healthcare practitioners
- Guidelines
 - 77pp
 - Disorders,
 processes, more
 resources etc
- On-line learning 6 modules

Quality – informed families







Newborn Metabolic Screening Programme

Best Practice for Health Practitioners

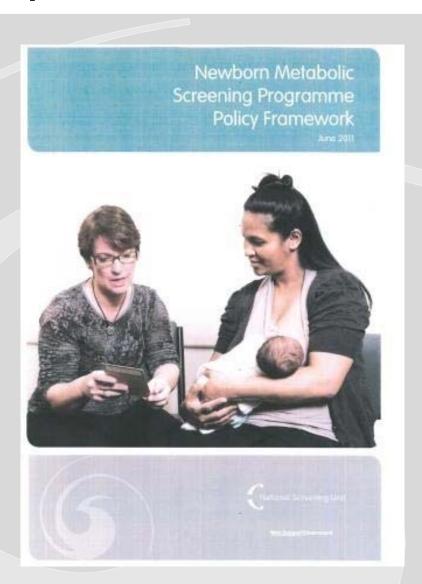
Information for Parents

Contornal Screening Unit Contornal Screeni

- New information sheet
- Disorder specific information following a positive test
- DVD for parents

Quality – Screening processes

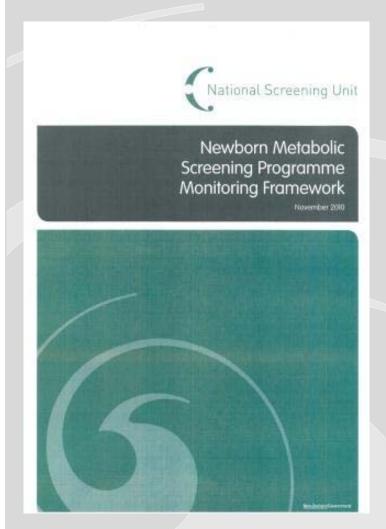




- Background
- Programme policy
- Responsibilities
 - Provider
 - Lead Maternity Carer
 - Laboratory
- Return of residual blood spots
- New technologies
- Changes to disorder panel

Quality monitoring





- Coverage
- Timing of sample taking
- Quality of samples
- Despatch and delivery
- Lab testing
- Reporting
- Second samples
- Diagnosis and treatment
- Card storage and return

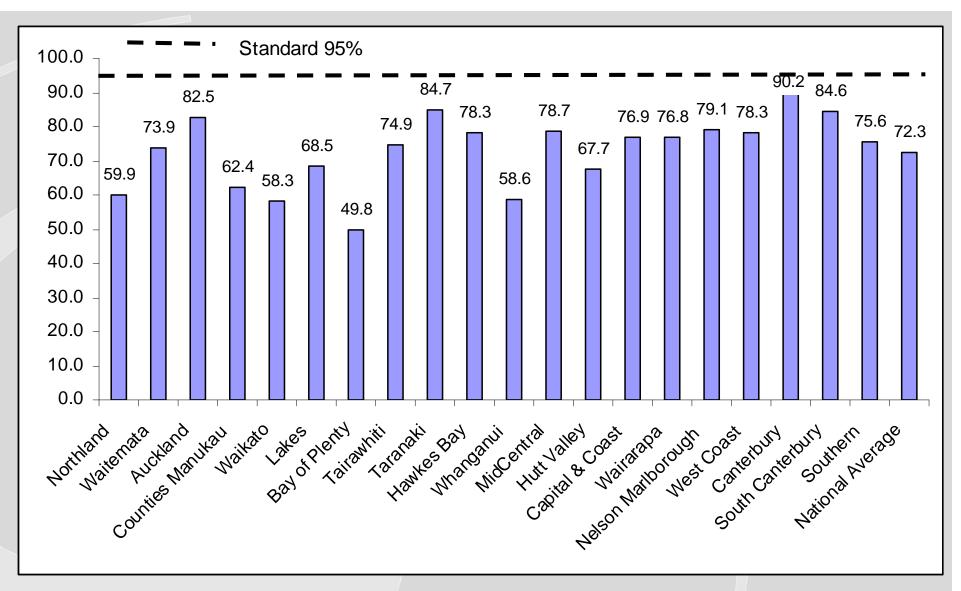
Quality parameters National Screening Unit



- Frequency of reporting (1, 2 or 4x yearly)
- Variables
- Standard
- Eg Timing of blood sample.
 - Reported quarterly
 - Against DHB region, ethnicity and socioeconomic status
 - Standard 95% taken 48-72 hours

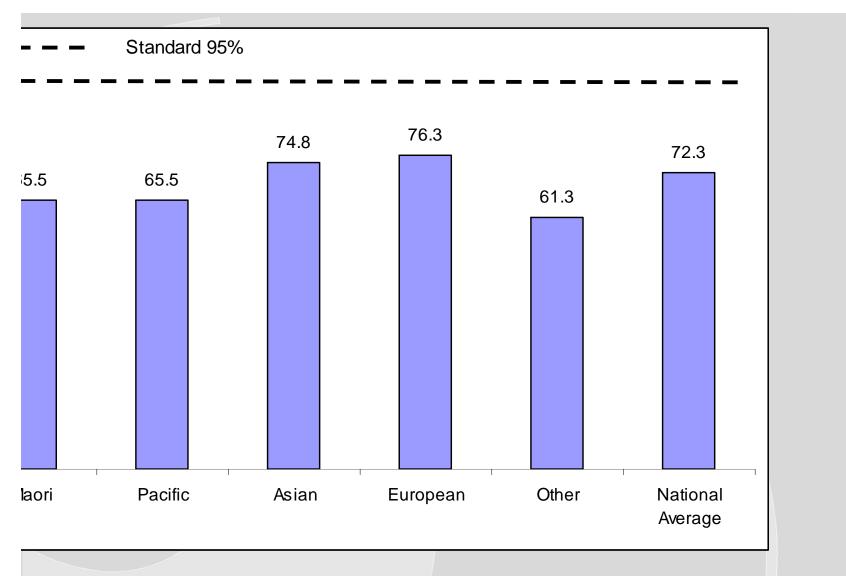
Samples taken 48-72h Oct-Dec 2012





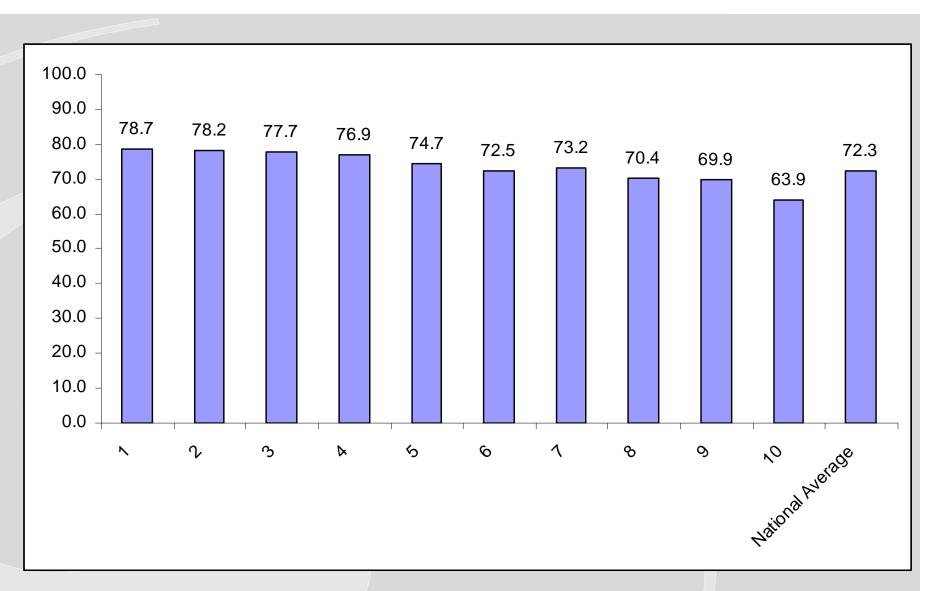
Samples taken 48-72hrs Oct-Dec 2012





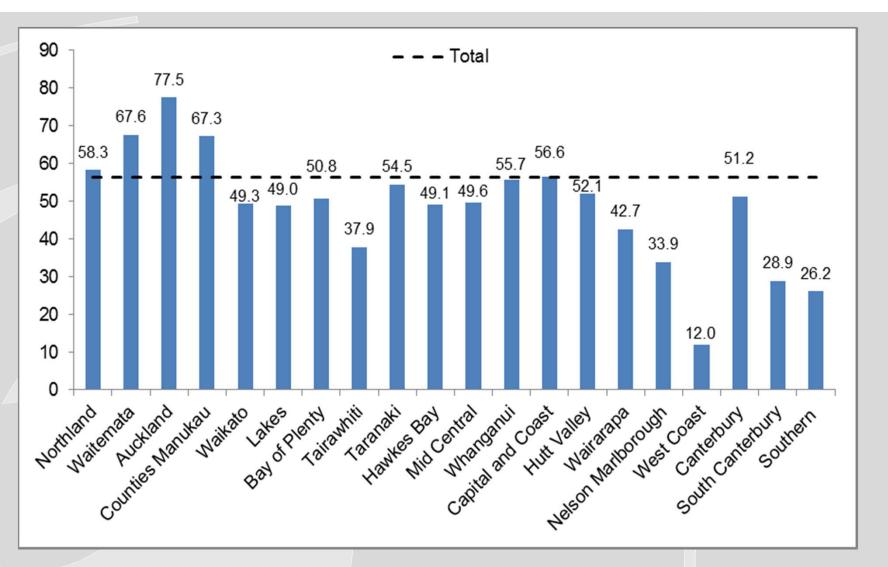
Samples taken 48-72hrs Oct-Dec 2012





Transit time 4d Jan-Mar 2011





Solution

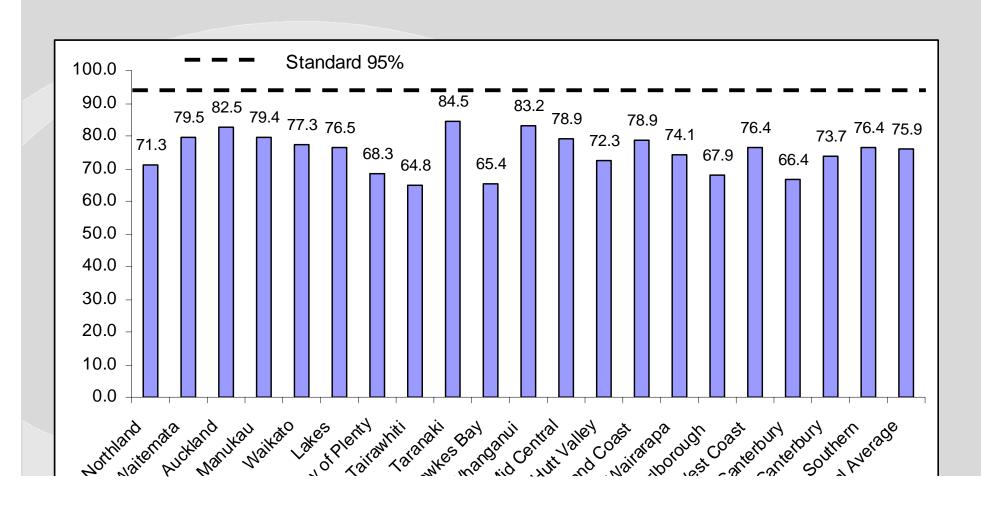




 Postage paid addressed envelopes supplied to all maternity caregivers

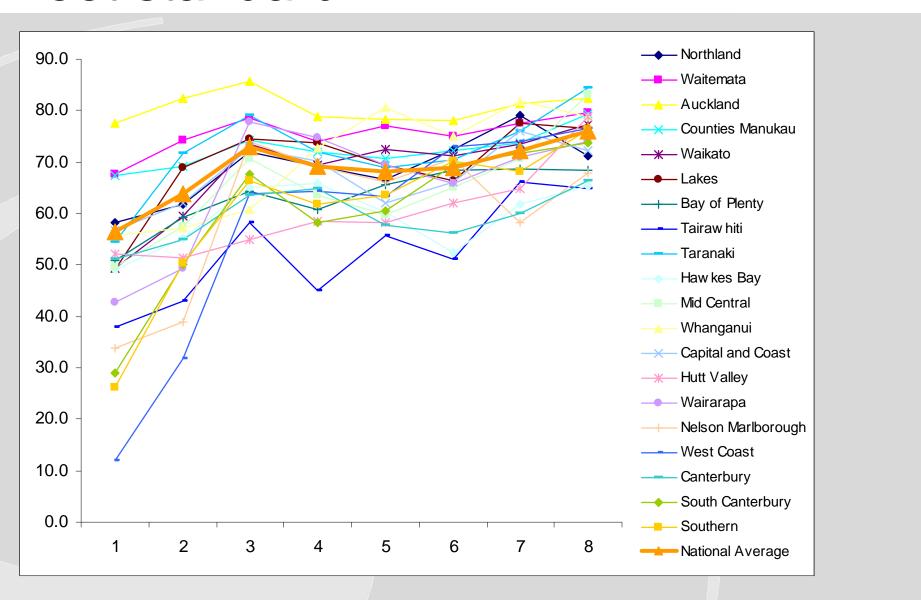
Transit time 4d Oct-Dec 2012





56% to 76% meet standard

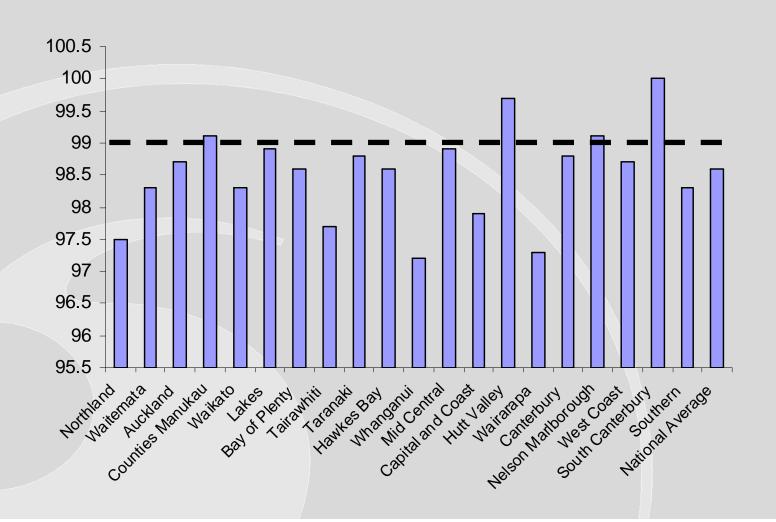




Adequate samples Standard 99%



4 regions meet standard Jan-Mar 2011



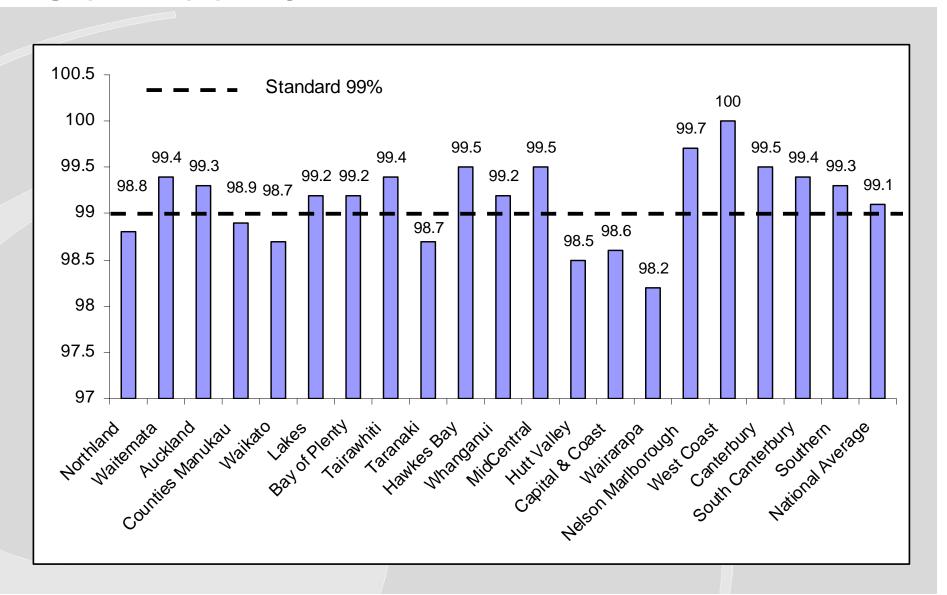
Solution



 Provision of high quality lancets free of charge to maternity caregivers mid 2011

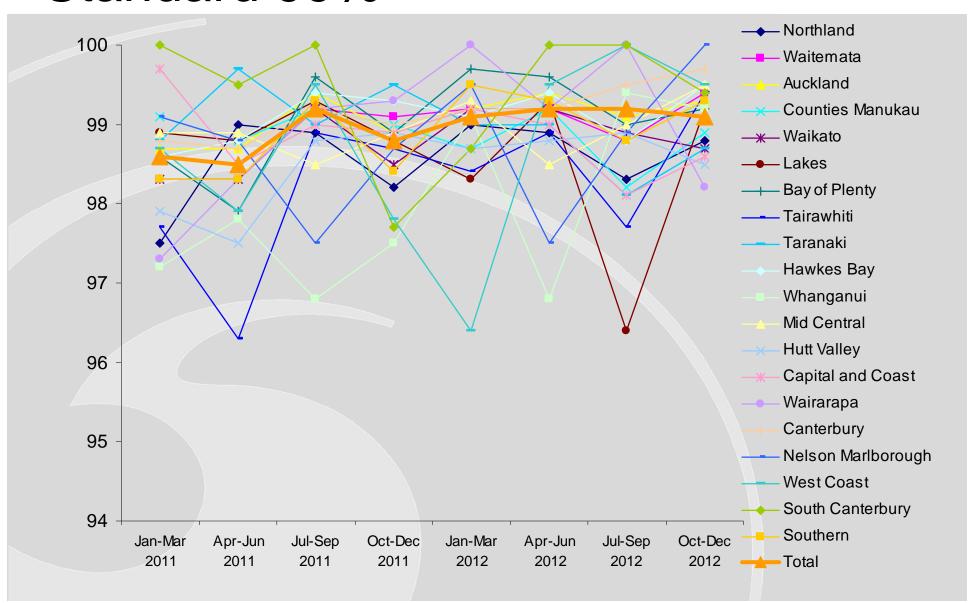
Suitable samples Oct-Dec 2012

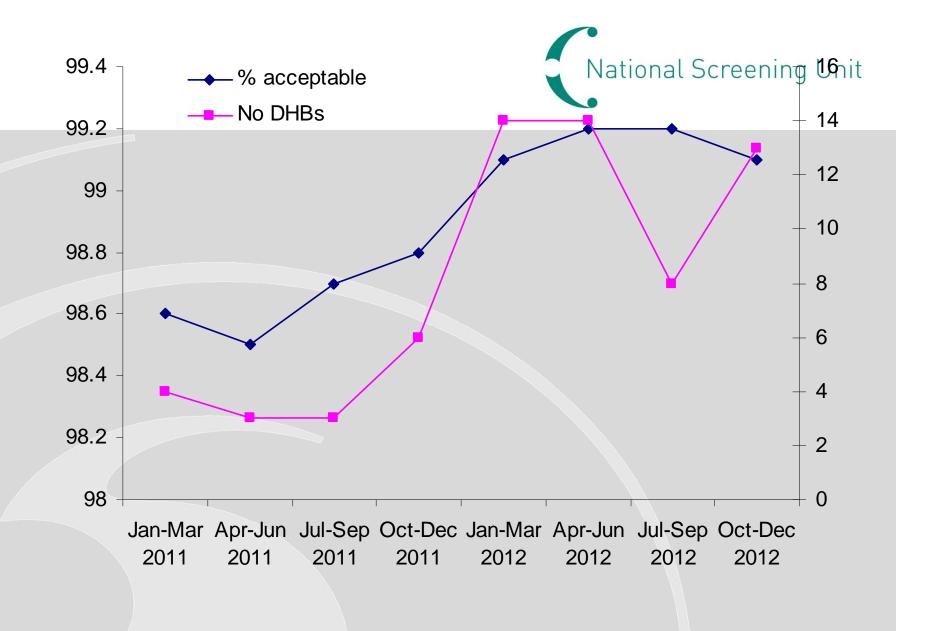




% adequate samples Standard 99%









0.6% improvement in sample quality

 390 babies / year don't need a repeat sample



Laboratory Testing



 100% of testing complete by agreed timeframes per condition



Disorder	Days	% met timeframe
CAH	2	99.9
Galactosaemia	2	99.8
AA and FAOD	2	97.8
Biotinidase def	5	99.9
Cystic fibrosis	5	98.9
СН	5	99.9



Outcome



- 2 new tandems in 2013
- CF revise methodology or target



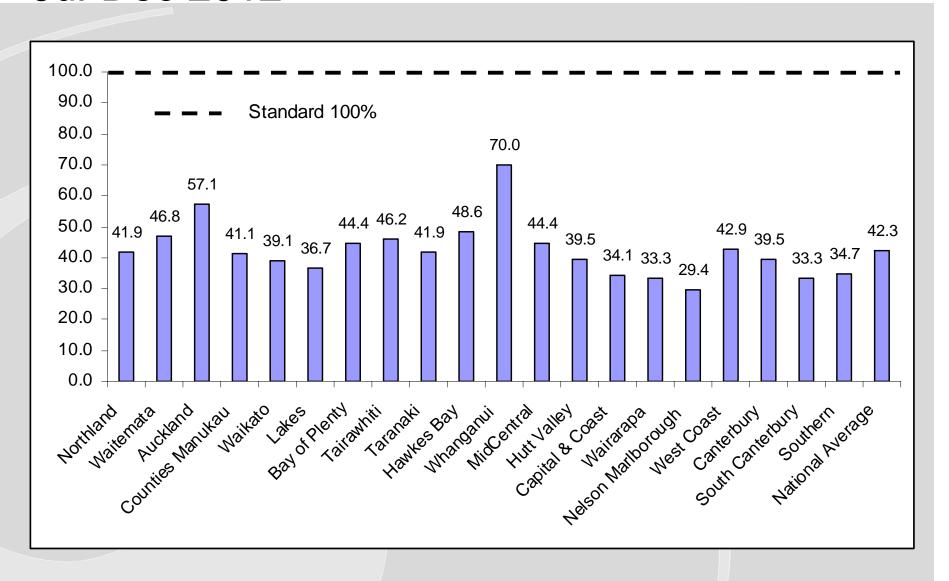


- Reported 6-monthly
- By DHB region
- Standard 100% of requested second samples be received by the laboratory, or decline notified, by 10 calendar days from request



Followup Jul-Dec 2012





What happens to reports?

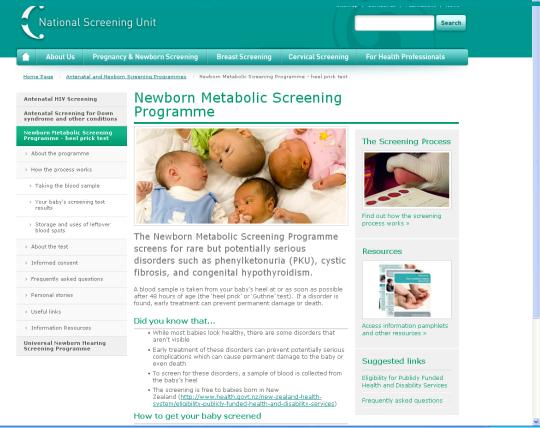


- Laboratory to National Screening Unit
- Reviewed by Advisory Committee
- Sent to maternity services in each DHB region

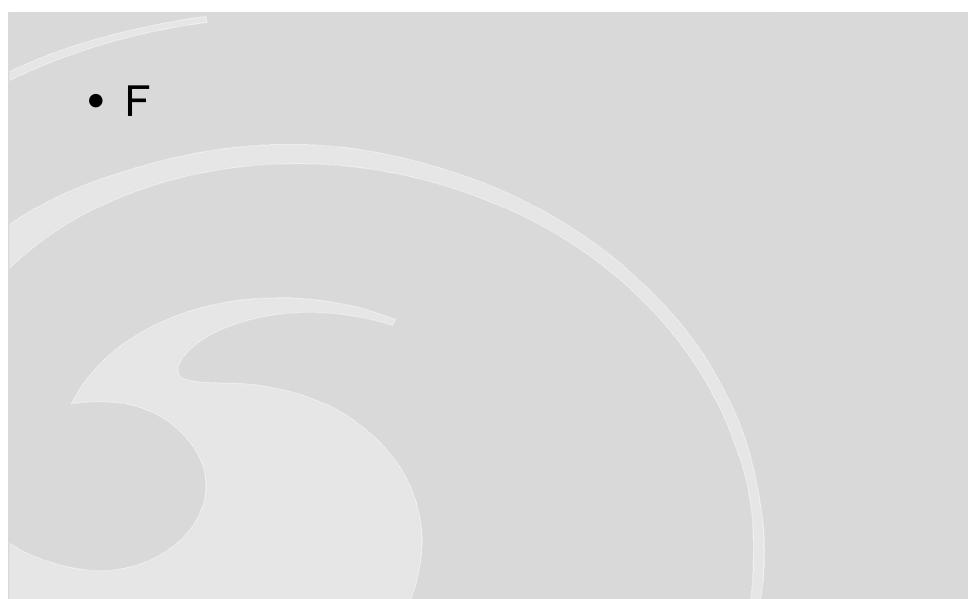
 Reporting has improved awareness of, and engagement with, maternity health professionals

All resources free downloadable from

ntto://www.asya.neg/a









 Funded longterm followup study on congenital hypothyroidism

Summary



- Better resourced maternity professionals and families
- NSU oversight of screening system invaluable
- Policy framework gives structure to programme changes eg addition of new tests
- Monitoring framework and action following unsatisfactory results improves screening performance

Thank-you







- http://www.nsu.govt.nz/index.aspx
- http://www.nsu.govt.nz/healthprofessionals/3810.aspx (learn on line, national screening unit)
- Resources guidelines and information sheets from HealthEd www.healthed.govt.nz
- Cards lancets envelopes from newbornscreeningresources@adhb.govt.nz

