



HEALTH QUALITY & SAFETY
COMMISSION NEW ZEALAND
Kupu Taurangi Hauora o Aotearoa



**National Infection Prevention and Control Programme
Hand Hygiene New Zealand
National Hand Hygiene Compliance Audit: June 2013**

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National hand hygiene compliance data: 01 April 2013 to 30 June 2013

The national compliance rate for this audit period is **70.5%**.

Correct hand hygiene actions	Total moments	Compliance rate	Lower 95% confidence interval	Upper 95% confidence interval
20168	28587	70.5%	70.0%	71.1%

National compliance rates by district health board

In this audit period 19 DHBs submitted data to the hand hygiene compliance database.

Table 1. Moments and compliance rates per DHB for 01 April 2013 to 30 June 2013

District health board (DHB)	01 April 2013 to 30 June 2013			Lower 95% confidence interval (%)	Upper 95% confidence interval (%)
	Correct moments	Total moments	Compliance (%)		
Tairāwhiti DHB	691	874	79%	76.20%	81.60%
Wairarapa DHB	166	216	77%	70.80%	82.00%
Whanganui DHB	714	946	76%	72.60%	78.10%
Auckland DHB	1,885	2,509	75%	73.40%	76.80%
Capital & Coast DHB	1,831	2,452	75%	72.90%	76.40%
Waitemata DHB	2,029	2,742	74%	72.30%	75.60%
*Hawkes Bay DHB	744	1,013	73%	70.60%	76.10%
*Hutt Valley DHB	261	357	73%	68.30%	77.40%
West Coast DHB	418	572	73%	69.30%	76.50%
Waikato DHB	1,811	2,523	72%	70.00%	73.50%
Counties Manukau DHB	1,848	2,582	72%	69.80%	73.30%
Lakes DHB	585	826	71%	67.60%	73.80%
Mid Central DHB	1,433	2,056	70%	67.70%	71.60%
Northland DHB	1,173	1,722	68%	65.90%	70.30%
*Bay of Plenty DHB	1,167	1,750	67%	64.40%	68.80%
*Canterbury DHB	1,153	1,728	67%	64.50%	68.90%
Nelson-Marlborough DHB	544	844	64%	61.20%	67.60%
*South Canterbury DHB	96	153	63%	54.80%	70.00%
Southern DHB	1,619	2,722	60%	57.60%	61.30%
*Taranaki DHB	No data submitted				

*Submitted less than the required number of moments.

Met quality and safety marker of 70%
Close to meeting quality and safety marker
Did not meet quality and safety marker

Comparison with previous audit period

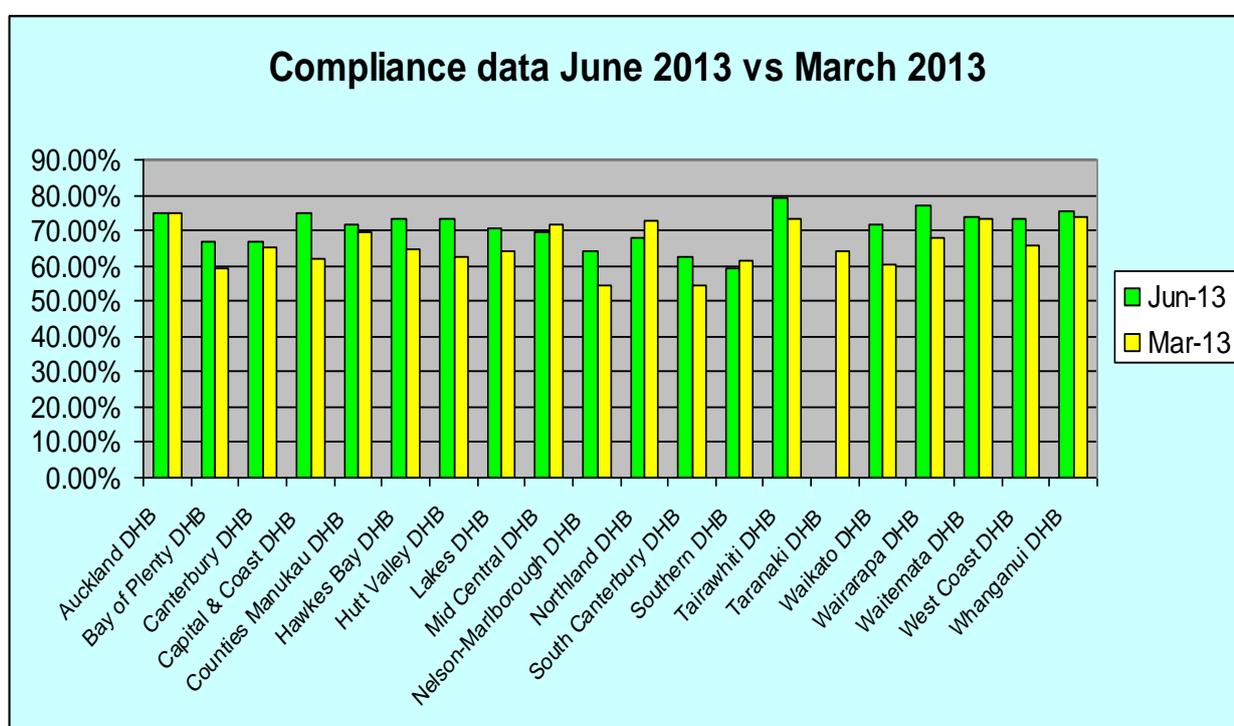
In the March 2013 audit period 20 DHBs contributed compliance data, compared to 19 DHBs in the June 2013 audit period. This time, six DHBs did not submit their minimum required number of moments compared to four in March 2013.

Improvements since March 2013:

- 13 DHBs achieved 70% or greater compared to seven in March 2013
- 19 DHBs achieved 60% or greater
- Further reduction of 3.5% in missed hand hygiene moments while putting gloves on
- 16 DHBs have improved upon their last audit, five DHBs by greater than 10%.

The graph below demonstrates the comparison between the March 2013 and June 2013 hand hygiene compliance data.

Figure 1. Comparison: hand hygiene compliance audit data March 2013 and June 2013



National compliance rates by each of the World Health Organization (WHO) 5 moments for hand hygiene (Table 3 and Figure 2 – see next page)

Compliance with each of the five moments has increased during this audit period. Particularly pleasing is the 4.5% increase in the ‘before touching a patient’ moment (moment 1) and a 5% increase with the ‘before a procedure’ moment (moment 2), this suggests that healthcare workers are starting to improve hand hygiene practice before these activities take place.

Moments 3 and 4 (the ‘after moments’) still have significantly better compliance than moments 1 and 2 (the ‘before moments’) receive. This is a well described phenomenon and may partly be explained by a widely held misunderstanding among healthcare workers that the primary purpose

of hand hygiene is for self protection rather than for the safety of patients. The importance of hand hygiene to improve patient safety is thus still one of the key educational messages for the Hand Hygiene New Zealand programme.

Table 3. Compliance rate by moment 01 April 2013 to 30 June 2013

Moment	Correct hand hygiene actions	Total moments	Compliance rate	Lower 95% confidence interval	Upper 95% confidence interval
1 - Before touching a patient	5,704	8,594	66.4%	65.4%	67.4%
2 - Before procedure	1,333	2,037	65.4%	63.3%	67.5%
3 - After a procedure or body fluid exposure risk	2,422	3,189	75.9%	74.4%	77.4%
4 - After touching a patient	6,872	8,875	77.4%	76.5%	78.3%
5 - After touching a patient's surroundings	3,837	5,892	65.1%	63.9%	66.3%

National compliance rates by healthcare worker category

Every healthcare worker category has improved in this audit with the exception of students across all disciplines.

Medical practitioners continue to feature low down in the compliance results and continue to fair little better than clerical workers. The difficulty with capturing this healthcare worker group is that they are assigned in small numbers to their clinical areas and are not easy to capture as a group for education.

Table 4. Healthcare worker compliance rate by moment 01 April 2013 to 30 June 2013

Name	Correct moments	Total moments	Compliance rate
Invasive technician	725	905	80.10%
Healthcare assistant	1,312	1,771	74.10%
Nurse/midwife	12,879	17,587	73.20%
Administrative/clerical staff	23	32	71.90%
Student nurse/midwife	739	1,105	66.90%
Allied healthcare worker	965	1,461	66.00%
Student allied health	104	159	65.40%
Domestic	350	543	64.40%
Medical practitioner	2,711	4,394	61.70%
Student doctor	56	98	57.10%
Other - not categorised elsewhere	304	532	57.10%

Glove usage

When hand hygiene compliance auditing commenced in New Zealand, collecting glove usage data was not actively collected. Now with all training, auditors are asked to collect glove data as it is more apparent that misuse of gloves for self protection is a barrier to good hand hygiene practice. Education about glove use is provided via gold auditor training sessions and written communication. The key message is that gloves are not a substitute for hand hygiene.

The most recent glove usage statistics are encouraging with a reduction of 3.5% of missed hand hygiene when putting gloves on since the last audit period.

Because healthcare workers increased their compliance with moments one and two (before touching a patient and before a procedure) it is a natural consequence then for a reduction in misuse of gloves to follow.

Latest glove useage statistics are:

- When gloves are taken OFF, the proportion of moments that were MISSED is 16%
- When gloves are put ON, the proportion of moments that were MISSED is 33.2%

National rate of healthcare-associated *Staphylococcus aureus* bacteraemia

Work is currently being undertaken by HHNZ to collect accurate, consistently collected national data on the rate of healthcare associated *Staphylococcus aureus* bacteraemia. The quality and consistency of measuring this outcome is an important tool to help evaluate the impact of the HHNZ programme. A system for collecting and submitting this data is now in place. Because collecting this data requires clinical documentation to be complete, DHBs have been asked to submit this data one month after the submission date for the audit data. For this audit period we are expecting DHBs to submit their *Staphylococcus aureus* bacteraemia data the second week of August.

The HHNZ programme team has instigated a new way for DHB hand hygiene coordinators to submit *Staphylococcus aureus* bacteraemia data online. This will save some of the double data entry resource and potential for error in entering data. The data is now captured on the HHNZ website and all hand hygiene coordinators have access to this report which is currently anonymous by attributing each DHB a numbered worksheet.