



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

**Hand Hygiene New Zealand
National Hand Hygiene Performance Report
for District Health Boards
01 April to 30 June 2014**

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National hand hygiene performance data: 01 April 2014 to 30 June 2014

The nationally aggregated hand hygiene performance rate for this measurement period is 73%.
The national average performance by DHB is 73.6%.

Correct hand hygiene actions	Total moments	Compliance rate	Lower 95% confidence interval	Upper 95% confidence interval
22874	31352	73%	72.5%	73.4%

Table 1. National performance rates by district health board

District health board	01 April 2014 to 30 June 2014			Lower 95% confidence interval (%)	Upper 95% confidence interval (%)
	Correct moments	Total moments	Performance rate		
DHBs that submitted 100% or greater of the required hand hygiene data					
Wairarapa DHB	163	202	80.70%	74.70%	85.50%
Bay of Plenty DHB	1,682	2,114	79.60%	77.80%	81.20%
Lakes DHB	675	855	78.90%	76.10%	81.50%
Whanganui DHB	658	837	78.60%	75.70%	81.30%
West Coast DHB	767	996	77.00%	74.30%	79.50%
Auckland DHB	1,901	2,492	76.30%	74.60%	77.90%
Waikato DHB	1,897	2,505	75.70%	74.00%	77.40%
Capital and Coast DHB	1,835	2,450	74.90%	73.10%	76.60%
Southern DHB	1,901	2,549	74.60%	72.90%	76.20%
Counties Manukau DHB	1,966	2,656	74.00%	72.30%	75.70%
MidCentral DHB	1,573	2,176	72.30%	70.40%	74.10%
Hawkes Bay DHB	1,288	1,787	72.10%	70.00%	74.10%
Nelson-Marlborough DHB	582	815	71.40%	68.20%	74.40%
Tairāwhiti DHB	604	859	70.30%	67.20%	73.30%
Northland DHB	1,157	1,762	65.70%	63.40%	67.80%
Hutt Valley DHB	945	1,885	50.10%	47.90%	52.40%

DHBs that submitted 51-99% of the required hand hygiene data					
Waitemata DHB	1,735	2,203	78.80%	77.00%	80.40%
Canterbury DHB	1,229	1,821	67.50%	65.30%	69.60%
DHBs that submitted 50% or fewer of the required hand hygiene data					
South Canterbury DHB	249	290	85.90%	81.40%	89.40%
Taranaki DHB	67	98	68.40%	58.60%	76.70%

In this measurement period 20 district health boards submitted data to the hand hygiene performance database.

- Nine DHBs achieved 75% or greater compared to six DHBs in March 2014.
- 13 DHBs improved upon their last performance result (31 March 2014).
- 16 DHBs submitted 100% or more of the required hand hygiene data (moments) during the 1 April 2014 to 30 June 2014 measurement period compared to 15 in October 2013.

National performance rates by each of the World Health Organization (WHO) 5 moments for hand hygiene

Performance according to each of the five moments has changed only very marginally. There is a small 1% to 2% reduction in moments 2 and 3 and small improvements 0.8% to 1.6% in the moments 1, 4 and 5. International trends are that the before moments (1 and 2) are consistently lower than the after moments.

Table 2. Compliance rate by moment 01 April 2014 to 30 June 2014

Moment	Correct hand hygiene actions	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
1 - Before Touching A Patient	6,222	9,050	68.8%	67.8%	69.7%
2 - Before Procedure	1,527	2,230	68.5%	66.5%	70.4%
3 - After a Procedure or Body Fluid Exposure Risk	2,606	3,388	76.9%	75.5%	78.3%
4 - After Touching a Patient	7,676	9,683	79.3%	78.5%	80.1%
5 - After Touching A Patient's Surroundings	4,843	7,001	69.2%	68.1%	70.2%

National performance rates by healthcare worker category

Rates are fairly consistent with the March 2014 period and doctors and student doctors remain at the lower end of the scale.

Table 3. Healthcare worker compliance rates: 01 April 2014 to 30 June 2014

Name	Correct moments	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
Phlebotomy invasive technician	742	975	76.1%	73.3%	78.7%
Nurse and midwife	14,637	19,332	75.7%	75.1%	76.3%
Healthcare assistant	1,471	1,964	74.9%	72.9%	76.8%
Allied health worker	1,080	1,496	72.2%	69.9%	74.4%
Student nurse and midwife	792	1,102	71.9%	69.1%	74.4%
Student allied health	129	184	70.1%	63.1%	76.3%
Domestic: cleaners and meal delivery staff	499	683	73.1%	69.6%	76.3%
Medical practitioner	3,161	4,956	63.8%	62.4%	65.1%
Administrative and clerical staff	30	46	65.2%	50.8%	77.3%
Student doctor	42	73	57.5%	46.1%	68.2%
Other - orderlies and those not categorised elsewhere	291	541	53.8%	49.6%	57.9%

Glove use

Inappropriate use of non-sterile gloves has been identified as one cause of missed hand hygiene opportunities and rates highly as one of the barriers to excellent hand hygiene practice.

The latest glove statistics are:

- When gloves are taken OFF, the proportion of hand hygiene opportunities that were MISSED was 13.6%.
- When gloves are put ON, the proportion of hand hygiene opportunities that were MISSED was 28.2%.
- Once healthcare workers donned gloves they then went on to fail to complete hand hygiene at the appropriate 5 moment times 29.4% of the time, due to continuous wearing of gloves.

The recent hand hygiene attitudinal survey indicates that healthcare workers still struggle to understand the need to perform hand hygiene at the appropriate times during patient care while

wearing gloves (as well as before and after donning and doffing gloves). An education tool and new poster is available for DHBs to use to highlight this area.

Time trended graphs March 2012 to June 2014

Figure 1. Trends in national aggregate and average hand hygiene performance: October 2012 to June 2014

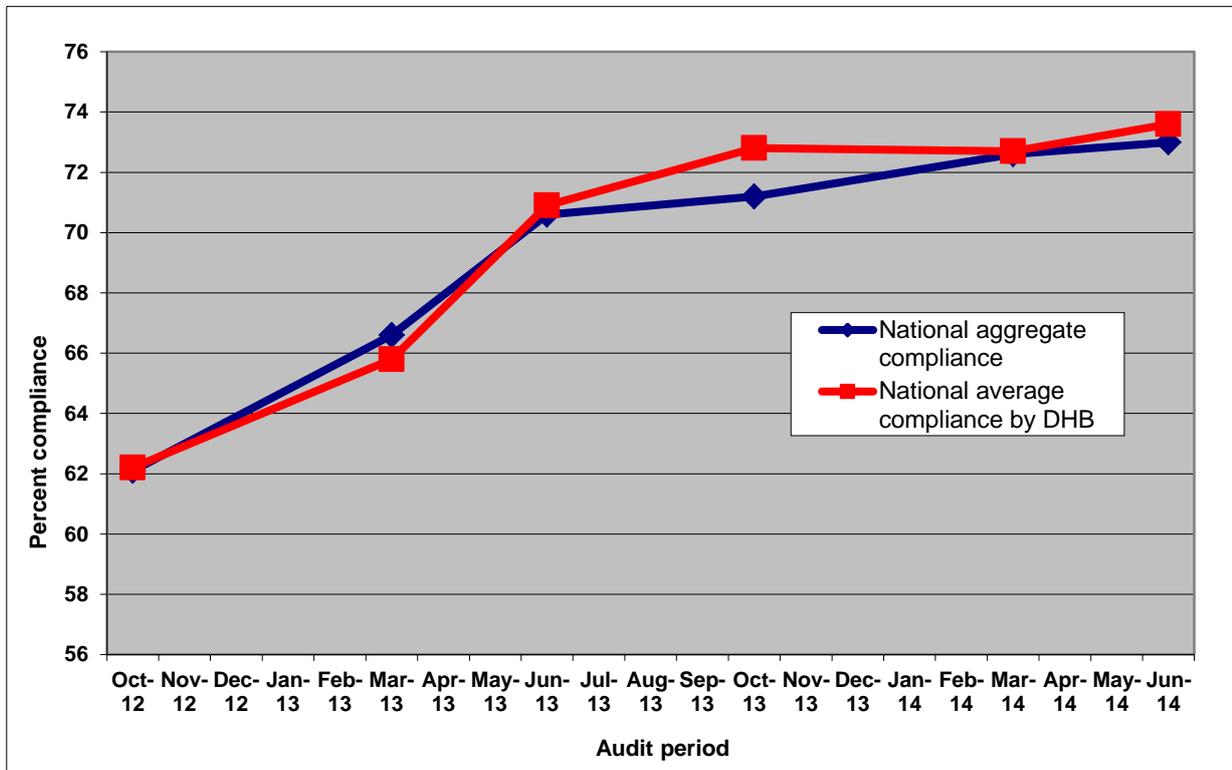


Figure 2. Trends over time by DHB: October 2012 to June 2014

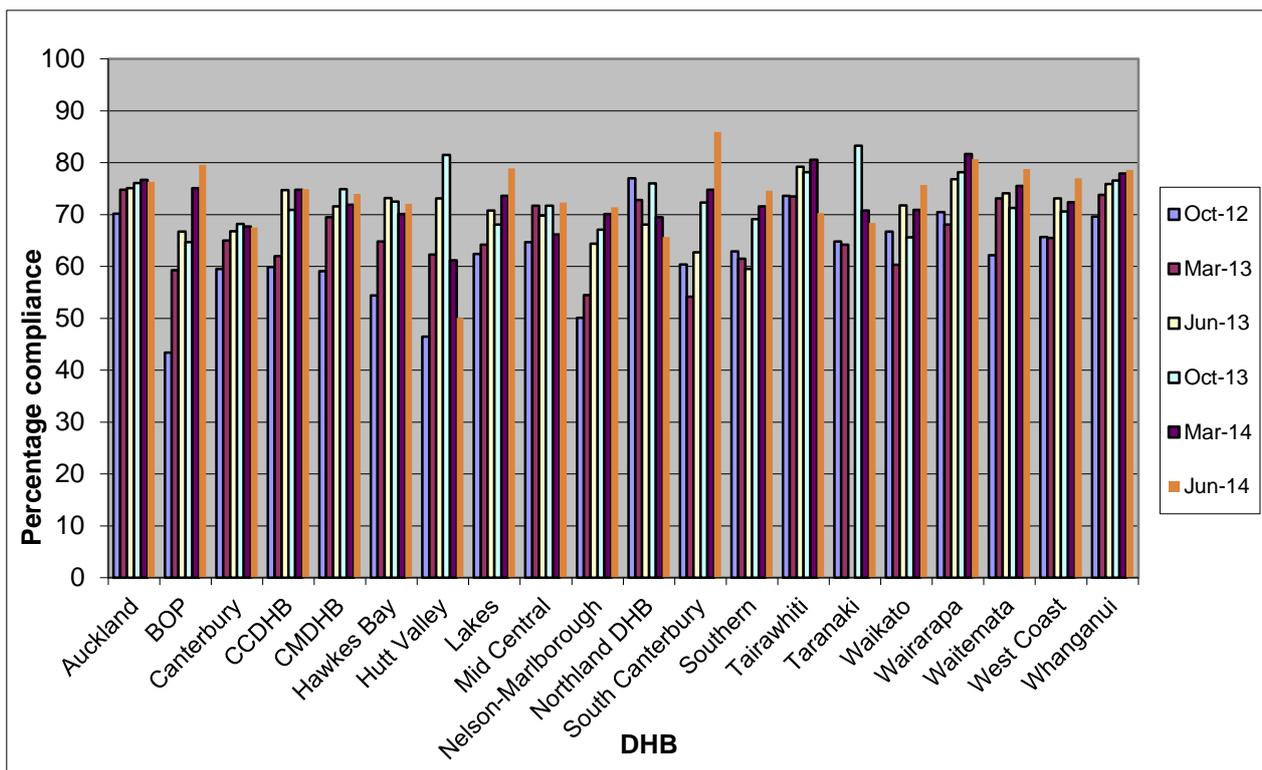


Figure 3. Change over time by moment: October 2012 to June 2014

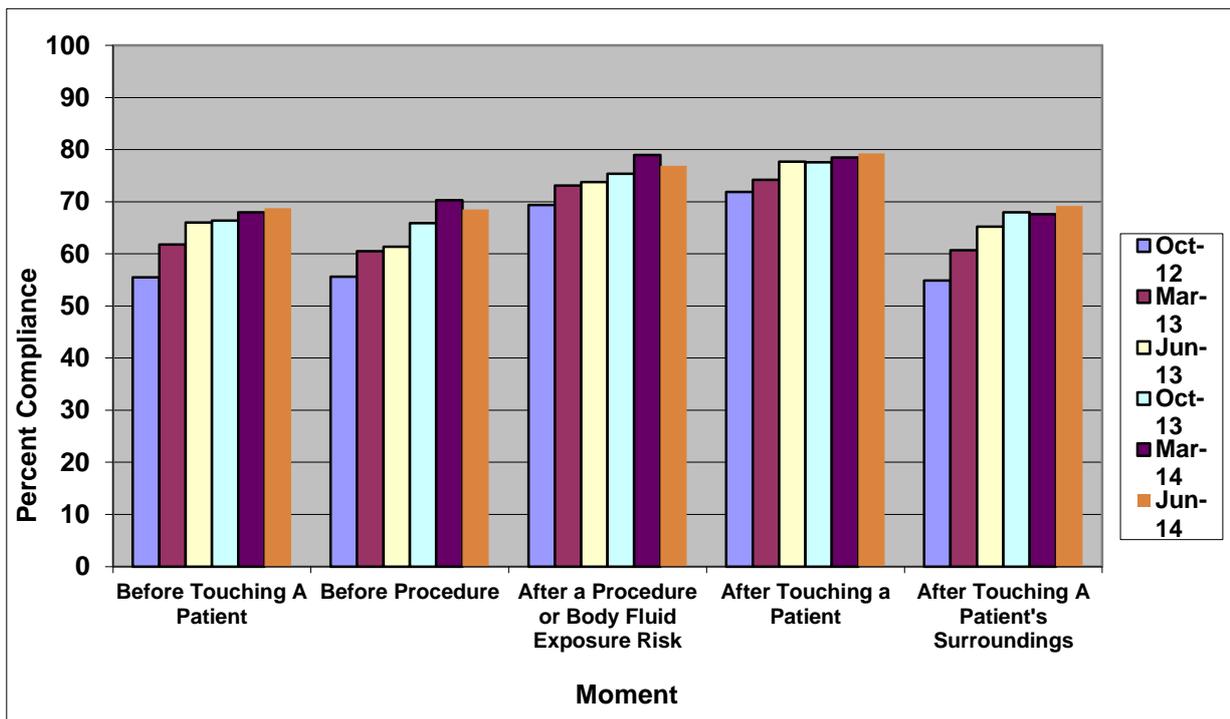


Figure 4. Change over time for healthcare workers: October 2012 to June 2014

