



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

Hand Hygiene New Zealand National Hand Hygiene Performance Report 01 November 2013 to 31 March 2014

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National hand hygiene performance data: 1 November 2013 to 31 March 2014

The nationally aggregated hand hygiene performance rate for this measurement period is 72.6%.
The national average performance by DHB is 72.7%.

Correct hand hygiene actions	Total moments	Compliance rate	Lower 95% confidence interval	Upper 95% confidence interval
22424	30904	72.6%	72.1%	73.1%

Table 1. National performance rates by district health board

District health board	01 Nov 2013 to 31 March 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	165	202	81.70%	75.80%	86.40%
Tairāwhiti DHB	822	1020	80.60%	78.00%	82.90%
Whanganui DHB	625	802	77.90%	74.90%	80.70%
Auckland DHB	1898	2474	76.70%	75.00%	78.30%
Waitemata DHB	2153	2852	75.50%	73.90%	77.00%
Bay of Plenty DHB	1599	2128	75.10%	73.30%	76.90%
Capital and Coast DHB	1833	2450	74.80%	73.10%	76.50%
South Canterbury DHB	460	615	74.80%	71.20%	78.10%
Lakes DHB	654	889	73.60%	70.60%	76.40%
West Coast DHB	1048	1447	72.40%	70.10%	74.70%
Counties Manukau DHB	1842	2561	71.90%	70.20%	73.60%
Southern DHB	1764	2463	71.60%	69.80%	73.40%
Waikato DHB	1822	2569	70.90%	69.10%	72.60%
Nelson-Marlborough DHB	581	829	70.10%	66.90%	73.10%
Northland DHB	1,256	1,808	69.50%	67.30%	71.50%
DHBs that submitted 51-99% of the required hand hygiene data					
Hawkes Bay DHB	712	1015	70.10%	67.30%	72.90%
Canterbury DHB	1552	2294	67.70%	65.70%	69.50%
Mid Central DHB	1282	1937	66.20%	64.00%	68.30%
DHBs that submitted 50% or fewer of the required hand hygiene data					
Taranaki DHB	148	209	70.80%	64.30%	76.60%
Hutt Valley DHB	208	340	61.20%	55.90%	66.20%

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

- 17 DHBs achieved 70% or greater compared to 14 DHBs in October 2013
- 13 DHBs improved upon their last performance result (31 October 2013.)

- 15 DHBs submitted 100% or more of the required hand hygiene data (moments) during the 1 November 2013 to 31 March 2014 measurement period compared to 17 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 increased during this measurement period. Particularly pleasing is the 1.6 per cent increase in the 'before touching a patient' moment (moment 1) and a 4.5 per cent increase with the 'before a procedure' moment (moment 2). There is also an associated change in 95 per cent confidence intervals. This suggests that healthcare workers are starting to improve hand hygiene practice before these activities take place.

Table 2. Compliance rate by moment 1 November 2013 to 31 March 2014

Moment	Correct hand hygiene actions	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
1. Before touching a patient	6108	8984	68%	67%	68.9%
2. Before procedure	1639	2332	70.3	68.4%	72.1%
3. After a procedure or body fluid exposure risk	2743	3470	79%	77.7%	80.04%
4. After touching a patient	7479	9527	78.5%	77.7%	79.3%
5. After touching a patient's surroundings	4455	6591	67.6%	66.5%	68.7%

National performance rates by healthcare worker category

There has been an improvement in each healthcare worker category during this measurement period, with the exception of the domestic category (meal delivery and cleaners.) This has dropped 3.9 per cent, however, the 95 per cent confidence intervals cross over which means that this is not statistically a significant change from the last measurement period.

Medical practitioners continue to feature low down in the compliance results and continue to fare little better than clerical workers. One of the difficulties with capturing this healthcare worker group is that they are assigned in small numbers to their clinical areas and are not easily captured by the DHBs for hand hygiene education.

Table 3. Healthcare worker compliance rate by moment 1 November 2013 to 31 March 2014

Name	Correct moments	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
Phlebotomy invasive technician	778	916	84.90%	82.50%	87.10%
Nurse and midwife	14,412	19,142	75.30%	74.70%	75.90%
Healthcare assistant	1,408	1,928	73.00%	71.00%	75.00%
Allied health worker	1,131	1,554	72.80%	70.50%	74.90%
Student nurse and midwife	714	985	72.50%	69.60%	75.20%
Student allied health	66	95	69.50%	59.60%	77.80%
Domestic: cleaners and meal delivery staff	385	585	65.80%	61.90%	69.50%
Medical practitioner	3,138	5,021	62.50%	61.10%	63.80%
Administrative and clerical staff	30	49	61.20%	47.20%	73.60%
Student doctor	52	85	61.20%	50.50%	70.80%
Other - orderlies and those not categorised elsewhere	310	544	57.00%	52.80%	61.10%

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 13.4%
- When gloves are put ON, the proportion of hand hygiene opportunities that were MISSED was 33.0%.
- Once healthcare workers donned gloves they then went on to fail to complete hand hygiene at the appropriate 5 moment times due to continuous wearing of gloves 30% of the time.

The recent hand hygiene attitudinal survey also indicates that healthcare workers still do not understand the need to perform hand hygiene at the appropriate times during patient care whilst wearing gloves (as well as before and after donning and doffing gloves). HHNZ will continue to publish and promote information about hand hygiene and glove use for DHBs to use to raise awareness of this important topic. An education tool and new poster will be available for DHBS to use to highlight this area.

Time trended graphs March 2012 to March 2014

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

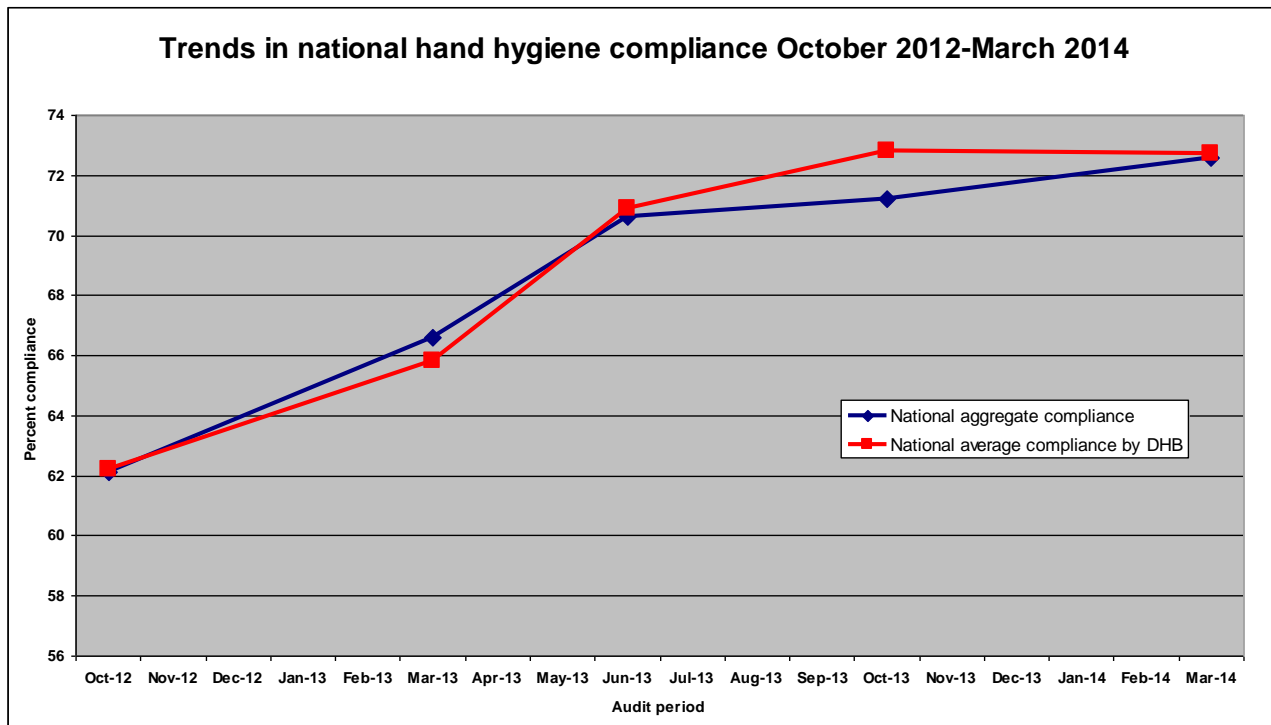


Figure 2. Trends over time by DHB: October 2012 to March 2014

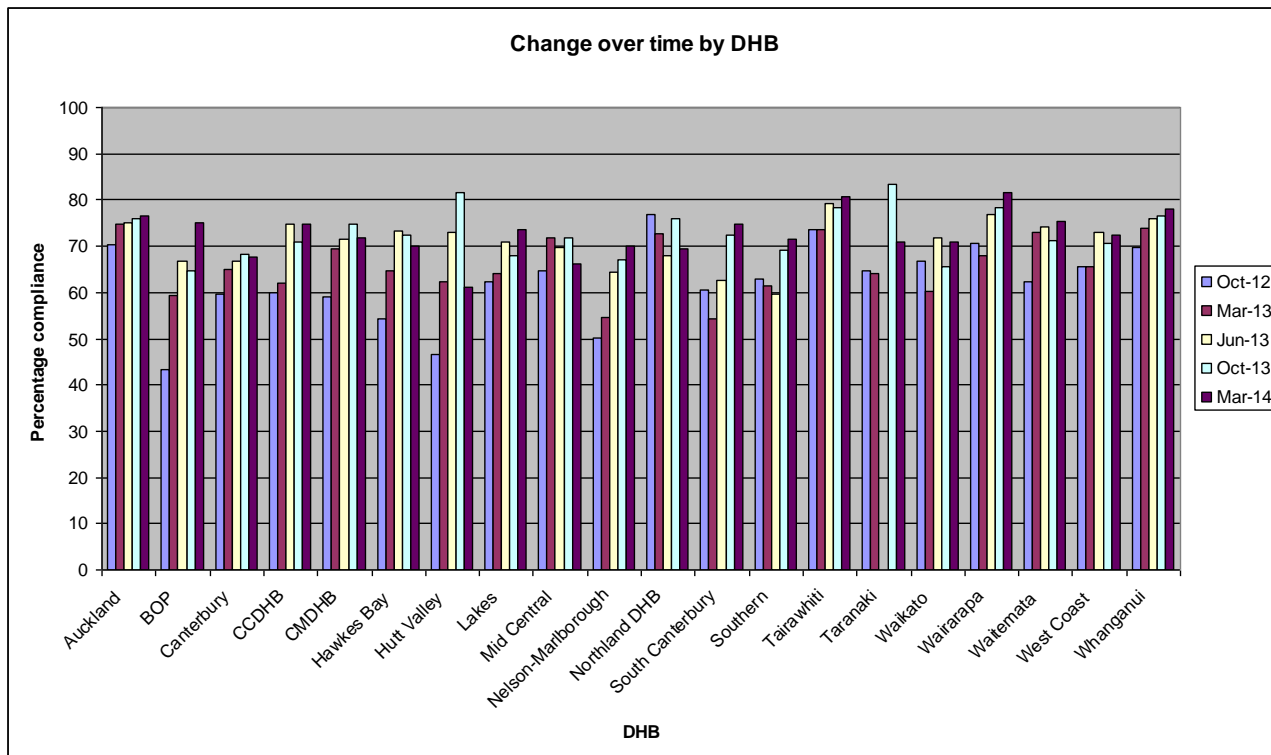


Figure 3. Change over time by moment

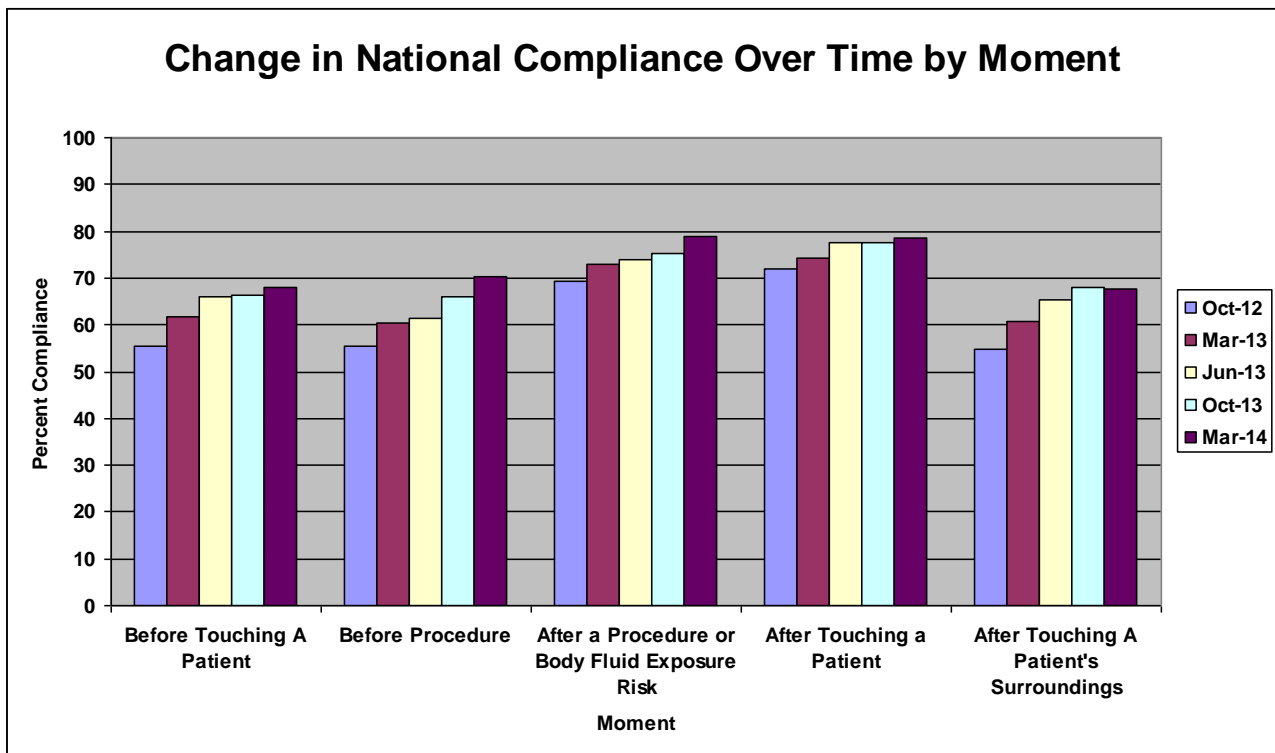


Figure 4. Change over time for healthcare workers

