



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

Hand Hygiene New Zealand National Hand Hygiene Performance Report 1 April 2015 to 30 June 2015

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Background

The Hand Hygiene New Zealand (HHNZ) programme is one of two infection prevention and control (IPC) improvement initiatives delivered in partnership with the Health Quality & Safety Commission (the Commission). HHNZ is joined in the IPC portfolio by the Surgical Site Infection Improvement Programme. As quality improvement initiatives, these programmes aim to reduce the incidence and impact of healthcare associated infections within the New Zealand health and disability sector.

Auckland District Health Board has delivered the HHNZ programme on behalf of the Commission for the past four years (2011 to 2015). The programme is a multi-modal quality improvement programme that uses the WHO '5 moments for hand hygiene' framework to drive culture change and establish best hand hygiene practice for every patient, every time.

This report presents the results for district health board and national hand hygiene performance for 1 April 2015 to 30 June 2015.

The hand hygiene programme team are pleased to announce that the national district health board (DHB) hand hygiene performance target of 80% by 30 June 2015 has been achieved in this latest period.

Achievements in the April to June 2015 period

- National hand hygiene performance has climbed to a nationally aggregated average of 80% this audit period, up from 77.4% last audit period.
- This is an excellent achievement which means that **the goal of reaching 80% for national DHB hand hygiene performance by 30 June 2015 has been met.**
- 19 DHBs achieved 75% compliance or more. Of those 19 DHBs, 12 achieved 80% or more (using Swedish rounding).
- Performance among many of the healthcare worker categories has continued to improve. Particularly pleasing is the continued improvement among medical practitioners and student doctors.
- 20 DHBs once again submitted 100% or more of the required hand hygiene data in this period.
- 16 DHBs improved on their last audit, including 10 DHBs that recorded their highest ever performance to date.

All DHBs

Continuing to drive improvement

Many healthcare workers have found that drawing on the principles of Frontline Ownership (FLO) has been an effective way to make more sustainable and successful hand hygiene improvements. FLO involves encouraging frontline staff to develop their own local solutions to improve hand hygiene that have relevance and are highly applicable to their own specific work context.

Engaging teams and helping them to overcome the barriers that present in their local settings is also likely to result in more resilience when new challenges show up.

To find out more about FLO, watch the You Tube video of a [presentation](#) by Dr Michael Gardam, Director of Infectious Diseases Prevention and Control, Ontario Agency for Health Protection and Promotion, which he gave at our National Hand Hygiene Quality Improvement Conference last year.

Correct glove use continues to be an ongoing issue (see below). While the performance rates for hand hygiene before, during, and after glove use are slowly improving, we would encourage DHBs to consider using FLO to find new solutions to increase awareness and drive improvement in this area.

National hand hygiene performance data: 1 April 2015 to 30 June 2015

The nationally aggregated hand hygiene performance rate for this measurement period is 80%. The national average performance by district health board (DHB) is also 80%. The average rate gives equal weighting to each DHB's result regardless of size whereas the aggregate rate is more affected by the performance of large DHBs. The fact that the two rates are the same indicates that performance rates between large and small DHBs are similar.

Correct Hand Hygiene Actions	Total Moments	Compliance Rate	Lower 95% Confidence Interval	Upper 95% Confidence Interval
31,578	39,476	80%	79.6%	80.4%

Table 1. National performance rates by DHB

District health board	1 April 2015 to 30 June 2015			Lower 95% confidence interval (%)	Upper 95% confidence interval (%)
	Correct moments	Total moments	% correct moments		
DHBs that submitted 100% or greater of the required hand hygiene data					
Southern DHB	2,171	2,543	85.4%	83.9%	86.7%
Hawkes Bay DHB	1,533	1,813	84.6%	82.8%	86.1%
Northland DHB	1,543	1,830	84.3%	82.6%	85.9%
Whanganui DHB	709	841	84.3%	81.7%	86.6%
South Canterbury DHB	510	608	83.9%	80.7%	86.6%
West Coast DHB	1,303	1,571	82.9%	81.0%	84.7%
Lakes DHB	772	937	82.4%	79.8%	84.7%
Waikato DHB	2,091	2,553	81.9%	80.4%	83.3%
Wairarapa DHB	174	217	80.2%	74.4%	84.9%
Waitemata DHB	2,401	2,996	80.1%	78.7%	81.5%
Nelson-Marlborough DHB	648	813	79.7%	76.8%	82.3%
Bay of Plenty DHB	1,693	2,126	79.6%	77.9%	81.3%
Capital & Coast DHB	1,932	2,450	78.9%	77.2%	80.4%
Auckland DHB	6,029	7,692	78.4%	77.4%	79.3%
Counties Manukau DHB	2,064	2,653	77.8%	76.2%	79.3%
Hutt Valley DHB	1,573	2,028	77.6%	75.7%	79.3%
Mid Central DHB	1,179	1,520	77.6%	75.4%	79.6%
Taranaki DHB	591	766	77.2%	74.0%	80.0%
Canterbury DHB	2,041	2,658	76.8%	75.1%	78.4%
Tairāwhiti DHB	621	861	72.1%	69.0%	75.0%

Table 2. Hand hygiene performance by geographic region

Name	Correct moments	Total moments	Compliance rate	Lower confidence interval	Upper confidence interval
Northern Region DHBs	12,037	15,171	79.3%	78.7%	80%
Midland Region DHBs	5,099	6,361	80.2%	79.2%	81.1%
Central Region DHBs	7,691	9,635	79.8%	79%	80.6%
South Island Region DHBs	6,673	8,193	81.4%	80.6%	82.3%

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 improved across moments 1-3.

Table 3. Performance by moment: 1 April 2015 to 30 June 2015

Moment	Correct hand hygiene actions	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
1 - Before Touching A Patient	8,903	11,718	76.0%	75.2%	76.7%
2 - Before Procedure	2,547	3,238	78.7%	77.2%	80.0%
3 - After a Procedure or Body Fluid Exposure Risk	3,742	4,395	85.1%	84.1%	86.2%
4 - After Touching a Patient	10,715	12,526	85.5%	84.9%	86.1%
5 - After Touching A Patient's Surroundings	5,762	7,709	74.7%	73.8%	75.7%

National performance rates by healthcare worker category

Rates have continued to increase in all healthcare worker categories except phlebotomists, where there was a minor, non-statistically significant reduction.

Table 4. Healthcare worker performance rates: 1 April 2015 to 30 June 2015

Name	Correct moments	Total moments	Performance rate	Lower 95% confidence interval	Upper 95% confidence interval
Student Allied Health	204	241	84.6%	79.6%	88.7%
Nurse/Midwife	20,108	24,194	83.1%	82.6%	83.6%
Administrative and Clerical Staff	51	62	82.3%	71.0%	89.8%
Student Doctor	117	144	81.2%	74.1%	86.8%
Phlebotomy Invasive Technician	1,154	1,458	79.1%	77.0%	81.2%
Student Nurse/Midwife	1,225	1,563	78.4%	76.3%	80.3%
Health Care Assistant	2,001	2,570	77.9%	76.2%	79.4%
Allied Health Care Worker	1,555	2,023	76.9%	75.0%	78.7%
Cleaner & Meal staff	484	654	74.0%	70.5%	77.2%
Medical Practitioner	4,335	5,996	72.3%	71.2%	73.4%
Other - Orderly & Not Categorised Elsewhere	352	540	65.2%	61.1%	69.1%
Anaesthetic tech	45	74	60.8%	49.4%	71.1%
Anaesthetist	38	67	56.7%	44.8%	67.9%

Glove use

Inappropriate use of non-sterile gloves continues to be a barrier to excellent hand hygiene practice. A sustained focus on how to maintain good hand hygiene when using non-sterile gloves is needed to improve this aspect of patient care .

Glove use and hand hygiene performance was measured for three key situations during this period: before gloves were put on, when they were taken off, and at the appropriate times during patient care.

- When gloves are taken OFF, the proportion of hand hygiene opportunities missed was 9.4% compared with 9.8% in the last audit.
- When gloves are put ON, the proportion of hand hygiene opportunities missed was 22.6% compared with 22.7% in the last audit.
- Once healthcare workers donned gloves they failed to complete hand hygiene at the appropriate 5 Moments 20.8% of the time, compared to 22.2% in the last audit.

Time trended graphs to June 2015

Figure 1. Trends in national aggregate and average hand hygiene performance: October 2012 to June 2015

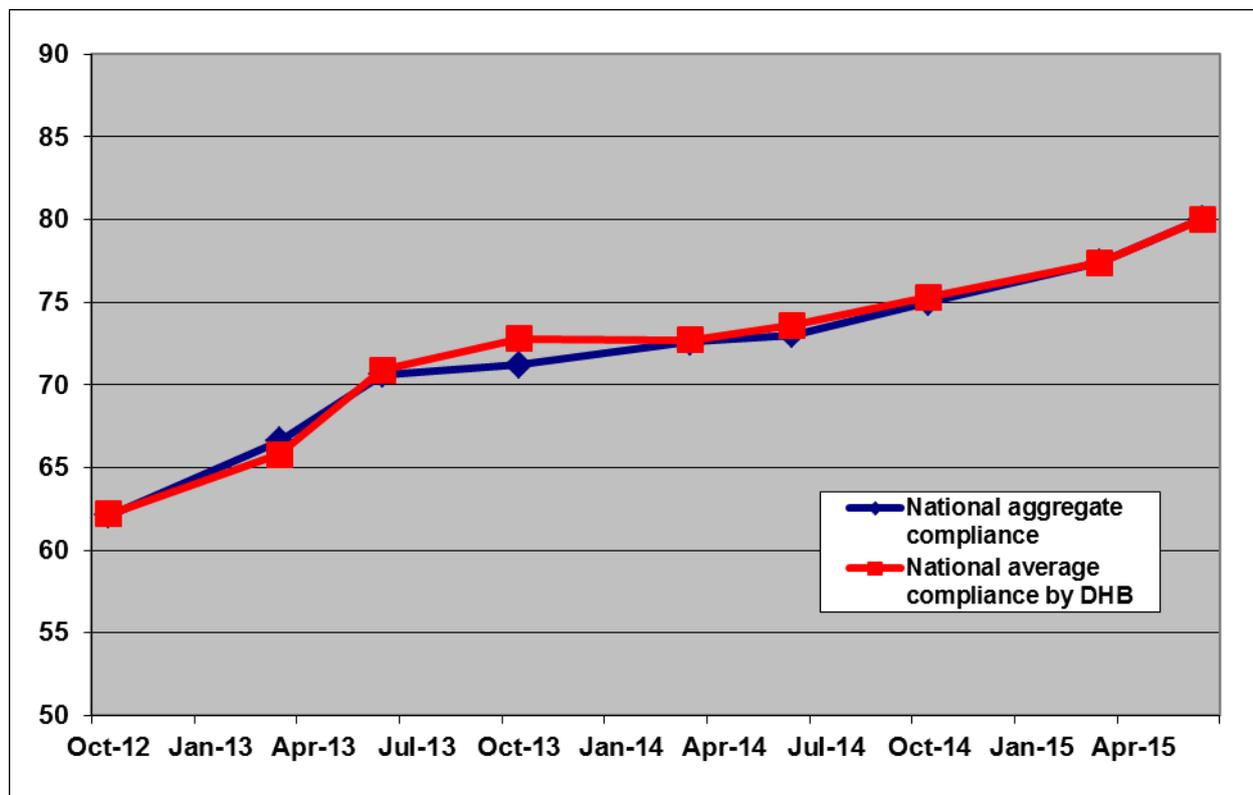


Figure 2. Trends over time by DHB: June 2013 to June 2015

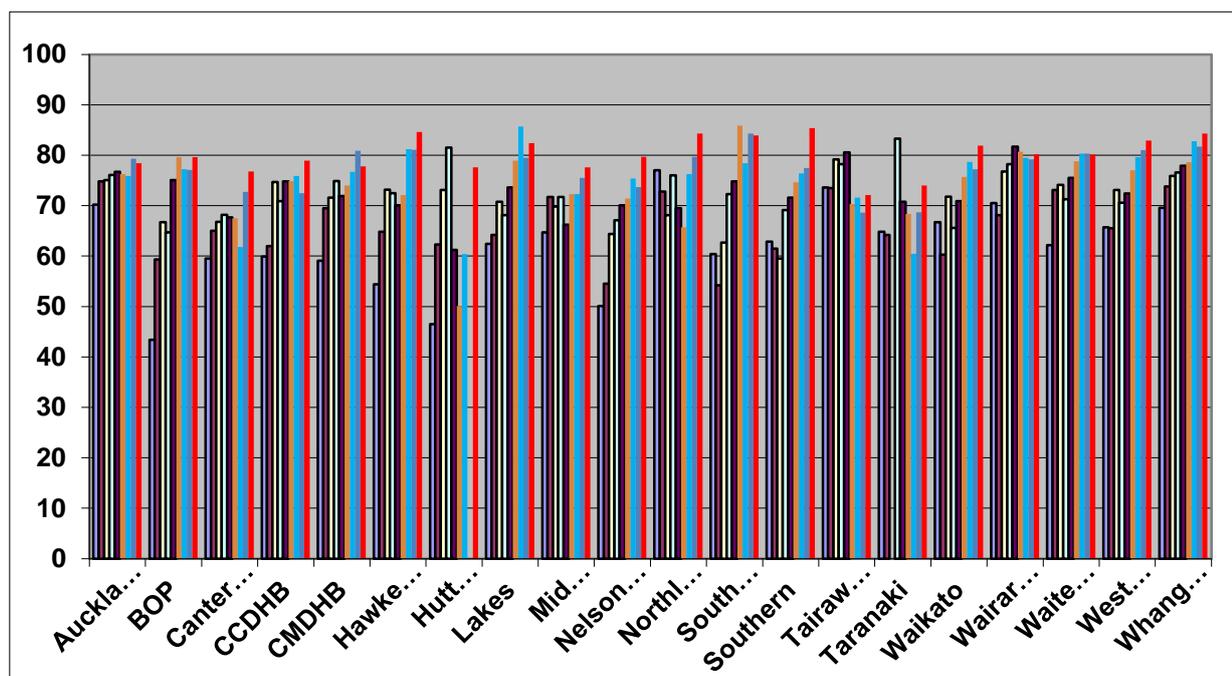


Figure 3. Change over time by moment: October 2012 to June 2015

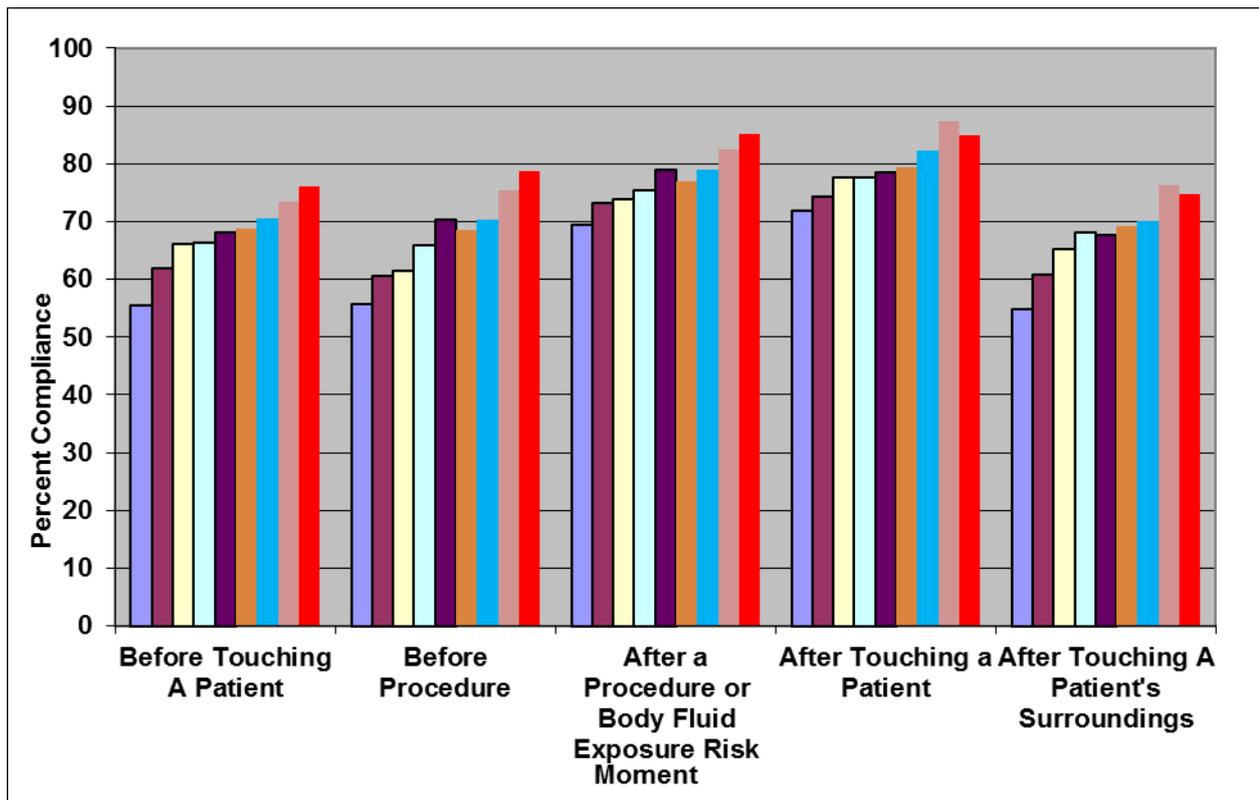


Figure 4. Change over time for healthcare workers: October 2012 to June 2015

