

## **Hand Hygiene Compliance at Vancouver Island Health Authority Facilities**

Proper hand hygiene is the single most effective means to achieve better infection control and safer patient care. All staff in healthcare settings should be aware of this and they all should clean their hands properly and at the correct times in order to reduce the incidence of healthcare associated infections. The Vancouver Island health Authority (VIHA) audits the hand hygiene practices of all healthcare providers at its acute care and long term care facilities on a regular basis to monitor whether they are following proper procedures in keeping with VIHA's guidelines. The health authority has committed to posting results from these audits on its public website for each hospital and long term care facility.

While healthcare providers move between patients and from room to room providing care, they are expected to perform proper hand hygiene at four moments of contact:

- Before contact with a patient or a patient's environment
- After contact with a patient or a patient's environment
- Before an aseptic procedure
- After body fluid exposure risk

While VIHA collects information on all four moments for hand hygiene, only two are publicly reported: before contact with a patient or patient's environment and after contact with a patient or patient's environment.

VIHA's guidelines stipulate that healthcare provider must not only properly clean their hands, they must also refrain from wearing rings other than a solid band, watches, artificial nails or nail extensions, and sleeves below the elbows – places where bacteria can hide. As a result, comparisons between VIHA facilities and those in other jurisdictions may not be appropriate. For example, the total compliance rate for the 2010-2011 fiscal year at Cowichan District Hospital would increase to 89% if compliance was based solely on proper cleaning.

For more information about hand hygiene, visit [http://www.viha.ca/health\\_info/handwashing.htm](http://www.viha.ca/health_info/handwashing.htm)

### **Acute Care Facilities**

Campbell River Hospital

Cowichan District Hospital

Lady Minto Hospital

Nanaimo Regional Hospital

Royal Jubilee Hospital

Saanich Peninsula Hospital

Tofino General Hospital

Victoria General Hospital

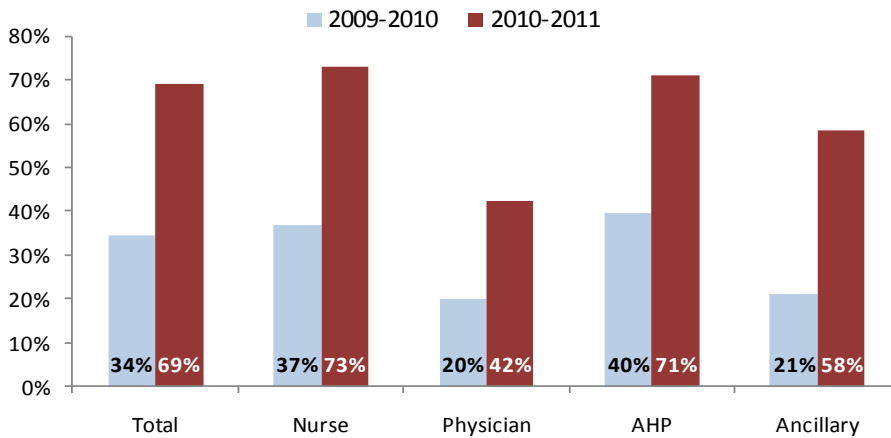
West Coast General Hospital

### **Long Term care Facilities**

## Acute Care Facilities

The overall compliance percentage at VIHA’s acute care facilities was 69% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals (71%) and nurses (73%), with significant improvements observed for all provider groups. The total compliance for the 2010-2011 fiscal year would increase to 76% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

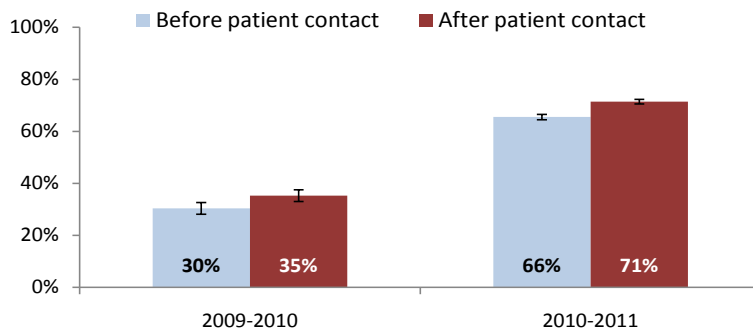
NC: the compliance rate was not calculated because insufficient observations were recorded to produce a reliable estimate.

E: High sampling variability, interpret with caution

The error bars represent the 95% confidence interval

In fiscal year 2010-2011, the hand hygiene compliance percentage was 66% before initial contact with the patient or the patient’s environment and 71% after contact with the patient or the patient’s environment.

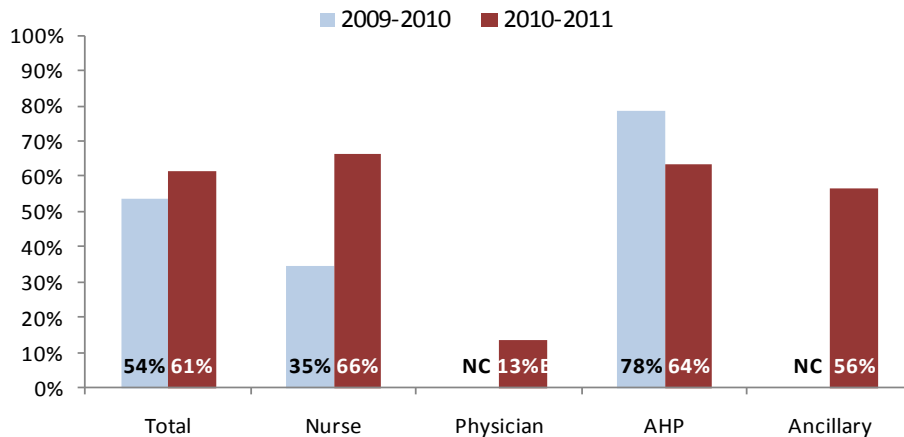
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Campbell River District Hospital

The overall compliance percentage at Campbell River District Hospital was 61% during fiscal year 2010-2011. While an improvement over the previous year, the difference was not significant. The highest compliance was seen among allied health professionals and nurses, with the latter group showing a significant increase. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 64% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

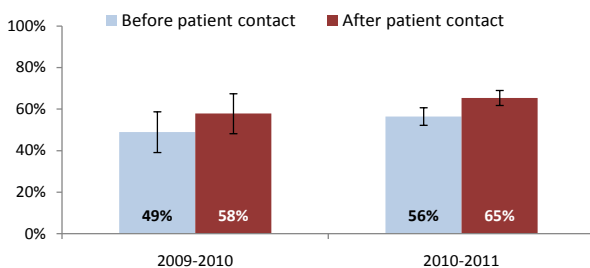
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 56% before initial contact with the patient or the patient's environment and 65% after contact with the patient or the patient's environment.

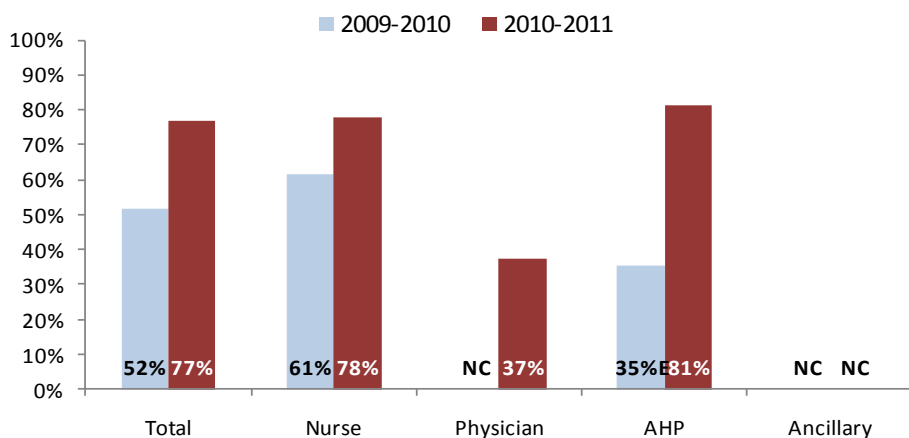
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Cowichan District Hospital

The overall compliance percentage at Cowichan District Hospital was 77% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals and nurses, with significant improvements observed for both groups. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 89% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

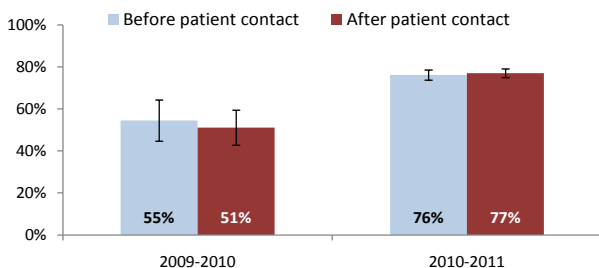
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 76% before initial contact with the patient or the patient's environment and 77% after contact with the patient or the patient's environment.

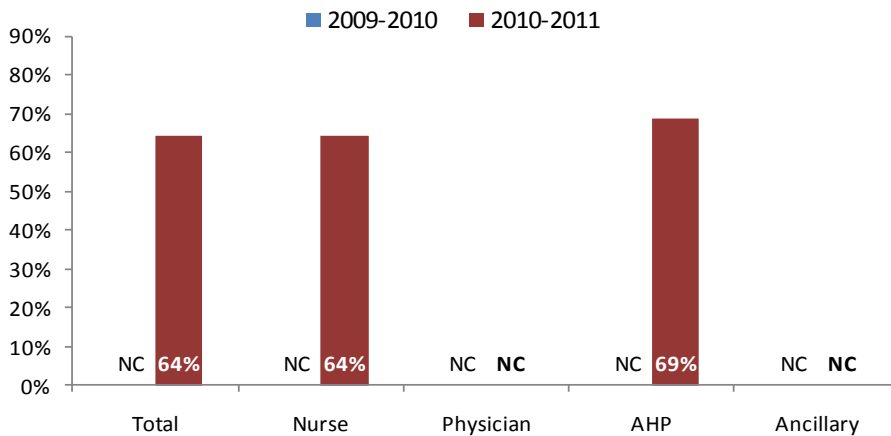
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Lady Minto Gulf Islands Hospital

The overall compliance percentage at Lady Minto Gulf Islands Hospital was 64% during fiscal year 2010-2011. Insufficient observations were recorded during the 2009-210 fiscal year to report reliable compliance estimates. The highest compliance was seen among allied health professionals and nurses. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 66% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

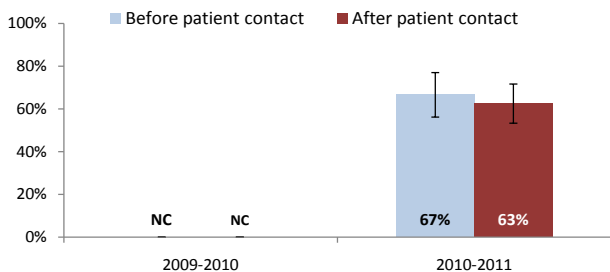
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 67% before initial contact with the patient or the patient's environment and 63% after contact with the patient or the patient's environment.

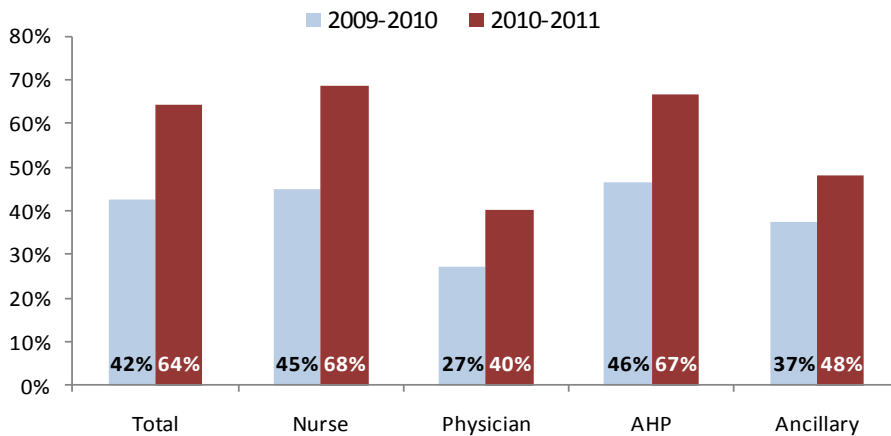
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Nanaimo Regional District Hospital

The overall compliance percentage at Nanaimo Regional District Hospital was 64% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals and nurses, with significant improvements observed for both groups. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 72% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

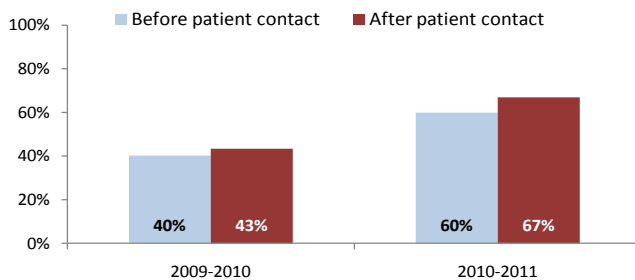
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 60% before initial contact with the patient or the patient's environment and 67% after contact with the patient or the patient's environment.

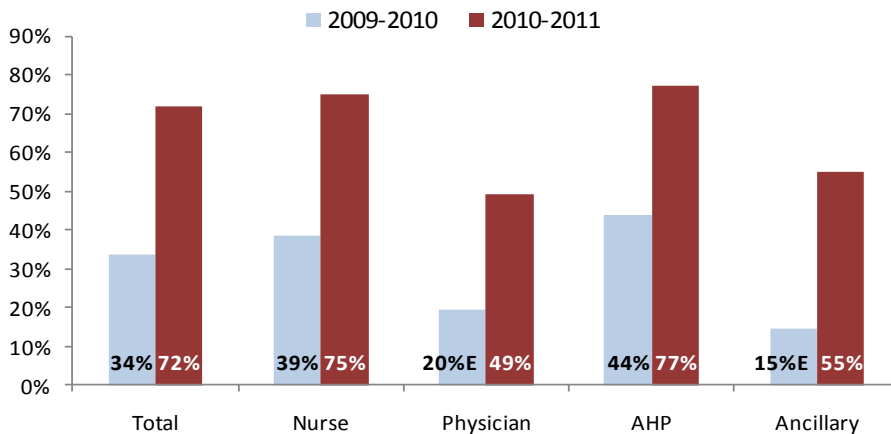
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Royal Jubilee Hospital

The overall compliance percentage at the Royal Jubilee Hospital was 72% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals and nurses. Significant improvements were observed for all groups. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 78% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

Ancillary staff includes food service staff, cleaning staff, porters and other support workers

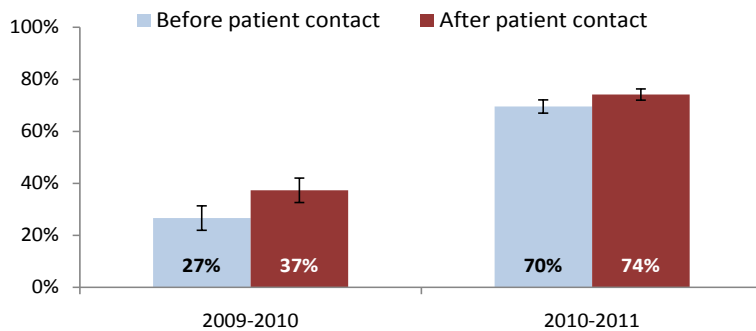
NC: the compliance rate was not calculated because insufficient observations were recorded to produce a reliable estimate.

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In fiscal year 2010-2011, the hand hygiene compliance percentage was 70% before initial contact with the patient or the patient's environment and 74% after contact with the patient or the patient's environment.

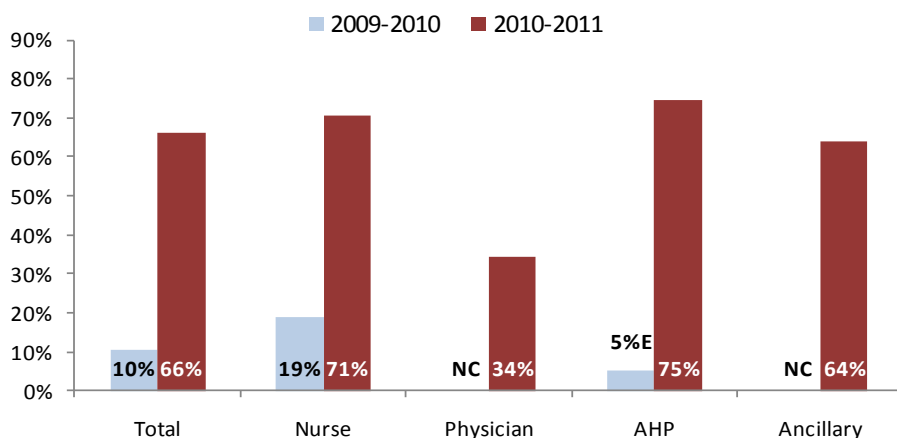
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Saanich Peninsula Hospital

The overall compliance percentage at the Saanich Peninsula Hospital was 66% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals and nurses, with significant improvements observed for these two groups. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 73% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



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Ancillary staff includes food service staff, cleaning staff, porters and other support workers

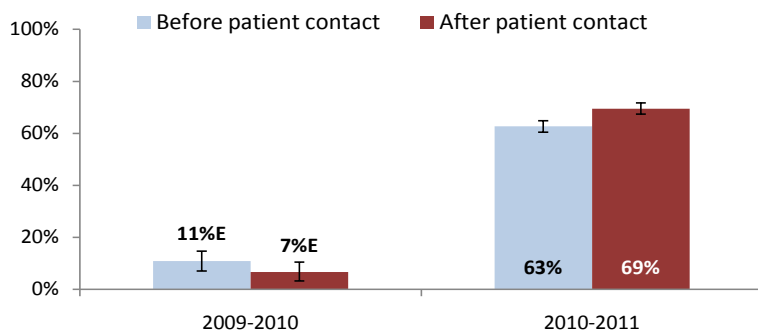
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 63% before initial contact with the patient or the patient's environment and 69% after contact with the patient or the patient's environment.

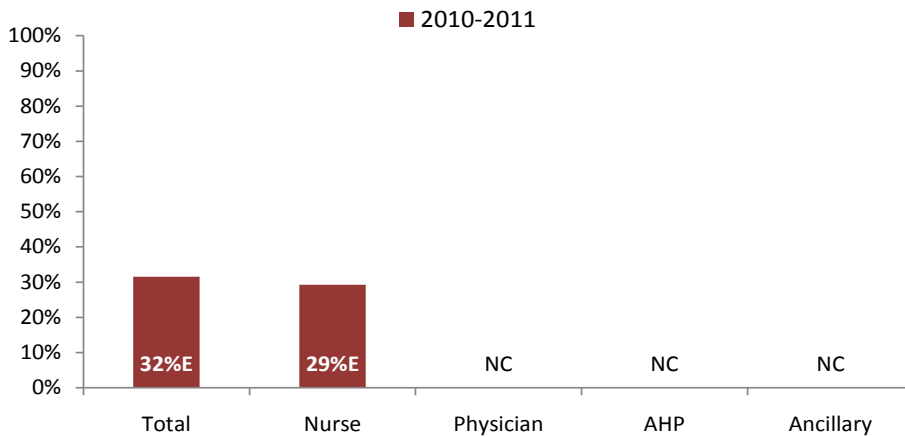
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Tofino General Hospital

The overall compliance percentage at the Tofino General Hospital was 32% during fiscal year 2010-2011, no observations were recorded at this facility during 2009-2010. Moreover, relatively few observations were recorded during 2010-2011 and the results presented here should be interpreted with extreme caution given the resulting high level of sampling variability. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 37% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



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Ancillary staff includes food service staff, cleaning staff, porters and other support workers

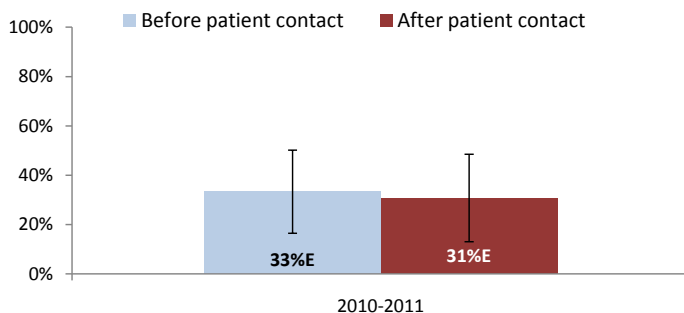
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The error bars represent the 95% confidence interval

In fiscal year 2010-2011, the hand hygiene compliance percentage was 33% before initial contact with the patient or the patient's environment and 31% after contact with the patient or the patient's environment.

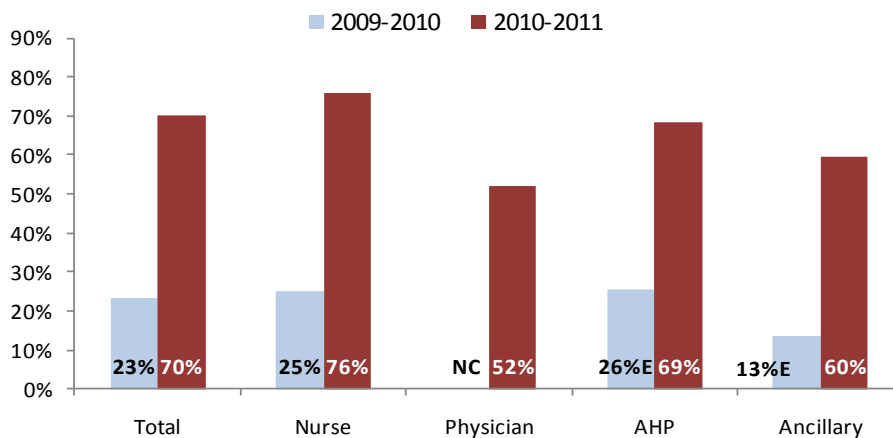
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Victoria General Hospital

The overall compliance percentage at the Victoria general Hospital was 70% during fiscal year 2010-2011, a significant improvement over the previous year. The highest compliance was seen among allied health professionals and nurses. Significant improvements were observed for all groups. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 77% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



AHP: Allied Health Professionals are healthcare workers other than nurses and doctors who help to treat and care for patients. This group includes physiotherapist, occupational therapists, social workers and diagnostic technicians

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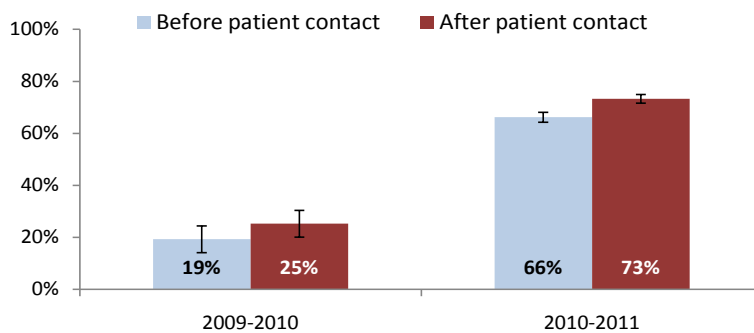
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In fiscal year 2010-2011, the hand hygiene compliance percentage was 66% before initial contact with the patient or the patient's environment and 73% after contact with the patient or the patient's environment.

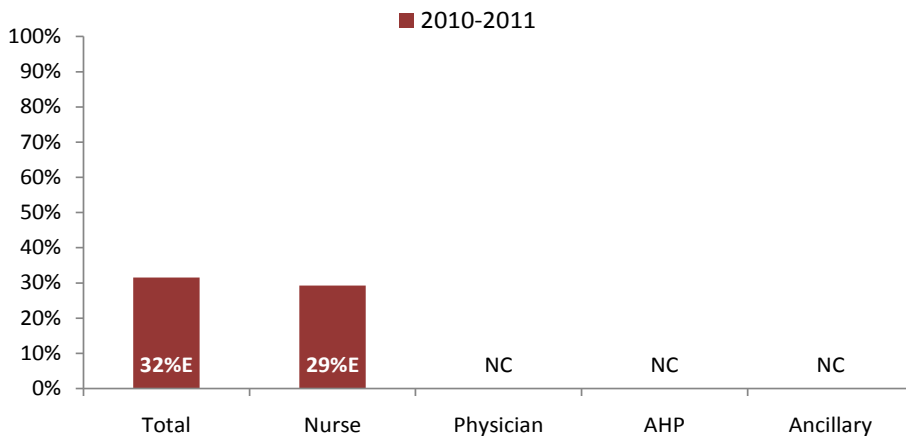
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## West Coast General Hospital

The overall compliance percentage at the West Coast General Hospital was 40% during fiscal year 2010-2011, unchanged from 2009-2010. However, relatively few observations were recorded; therefore the estimates presented here should be interpreted with caution given the resulting high level of sampling variability. The total compliance for the 2010-2011 fiscal year at this hospital would increase to 46% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Hand Hygiene Compliance by Health Care Provider Group and Fiscal Year



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Ancillary staff includes food service staff, cleaning staff, porters and other support workers

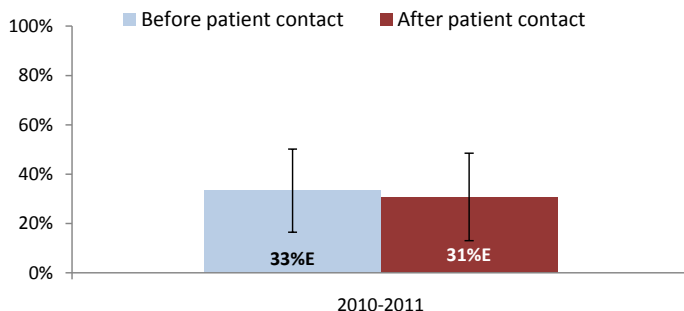
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The error bars represent the 95% confidence interval

In fiscal year 2010-2011, the hand hygiene compliance percentage was 33% before initial contact with the patient or the patient's environment and 31% after contact with the patient or the patient's environment.

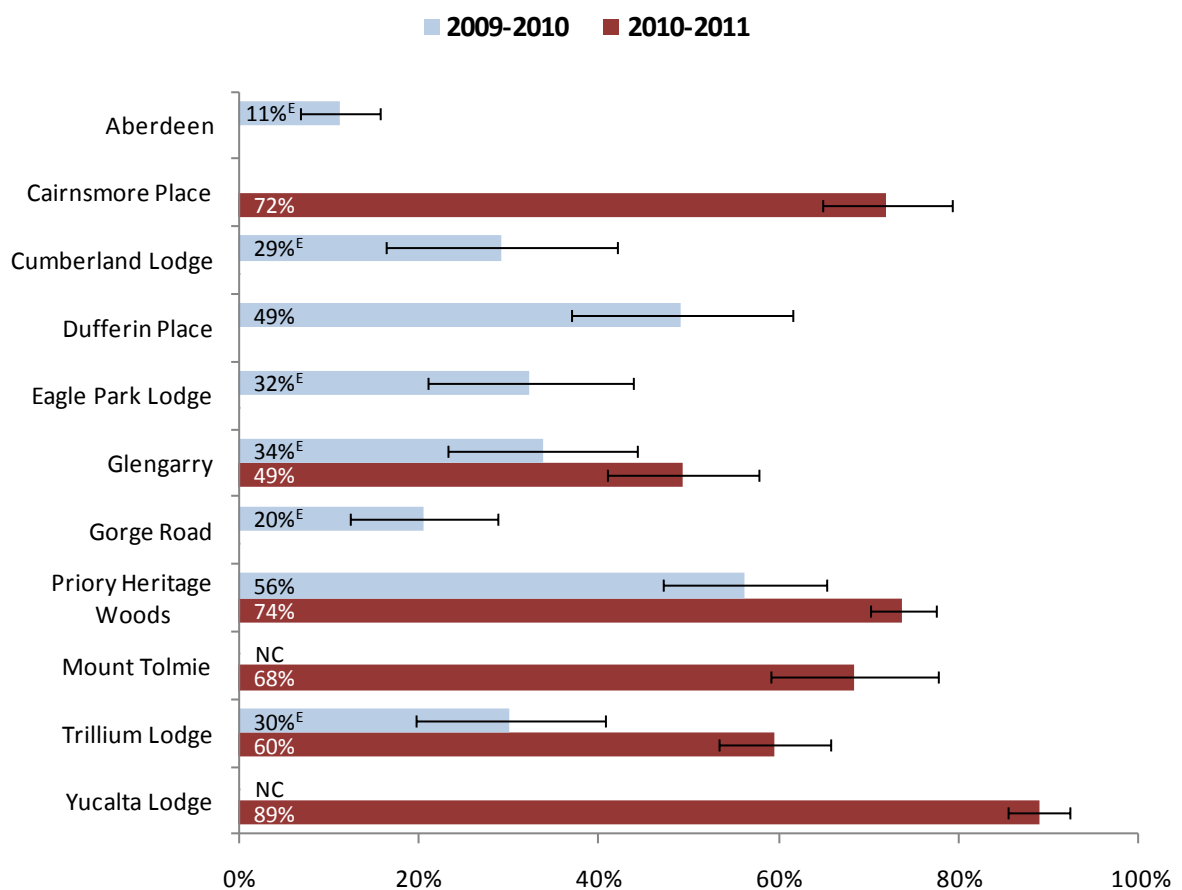
### Hand Hygiene Compliance Before and After patient Contact by Fiscal Year



## Long Term Care Facilities

The hand compliance percentages for VIHA's long term care facilities are presented in the figure below. Information for each provider group and moments of hand hygiene are not provided because of the relatively small number of observation recorded at each facility. The overall compliance for all long term care facilities was 72% in the 2010-2011 fiscal year. This represents a significant improvement over 2009-2010 when the compliance percentage was 31%. The total compliance for 2010-2011 would increase to 81% if compliance was based solely on proper cleaning, rather than cleaning and the absence of barriers.

### Overall Hand Hygiene Compliance by Long Term Care Facility and Fiscal Year



NC: the compliance rate was not calculated because insufficient observations were recorded to produce a reliable estimate.

E: High sampling variability, interpret with caution

The error bars represent the 95% confidence interval