Hand hygiene reminder system



Quantitative Article:

Ellison, R. T.,

Barysauskas, C. M.,

Rundensteiner, E. A.,

Wang, D., & Barton, B.

(2015). A Prospective

Controlled Trial of an

Electronic Hand

Hygiene Reminder

System . Open Forum

Infectious Diseases,

2(4). doi: 10.

1093/ofid/ofv121

Backgroun This study

d or was

Introductio conducted

n to find ways

to raise the

number of

times hand

hygiene is

completed.

The study

used three

phases to

accomplish/

measure the

outcomes.

The study is

easy to

follow and

well

organized.

Review of Prevention

the and

Literature education

were key

points made

by the

author. We

already

have many

excellent

sources of

education

material

that has

been

completed

by reputable

sources

such as the

CDC, WHO

and Joint

commission.

Unfortunatel

y, even

when health

care

facilities

implement

infection

control

efforts there

is a large

discrepancy

in the actual

completion

of hand

hygiene. In

completing

this article

the writer

researched

36 other

articles. This

gave plenty

of research

to complete

the study.

Discussion This clinical

of study was

Methodolo controlled

gy and used

two

different

ICU's. The

ICU's were

comparable

in census,

size, and

admission

demographi

cs. They

ICU's did

have one

mentioned

variable.

One ICU had

one less bed

available.

An

automatic

hand

hygiene

system was

installed.

When staff

entered or

exited a

room they

were both

monitored

and

reminded by

the machine

to perform

hand

hygiene.

This study

was a

quantitative

study.

Data The Study

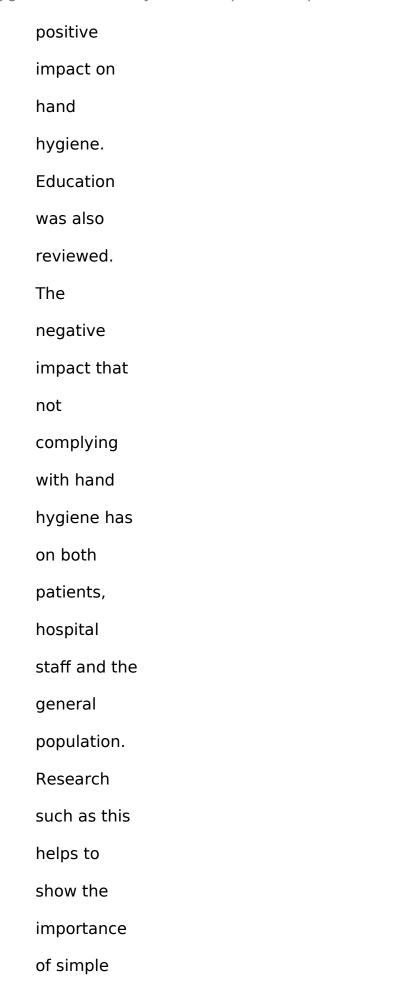
Analysis lasted 4

months -

one week. The results of the study were set side by side. The number of uses of the hand sanitizer against how often the alarm sounded when coming in or going out of a room. Ratios were figured and recorded. trial when

Researche During the r's Conclusion the chime reminded staff to

complete
hand
hygiene it
was noted
that there
was a 24%
increase in
compliance
but
throughout
the washout
phase
health care
workers
tended to
regress
back to their
baseline.
The
increase in
hand
hygiene
compliance
shows that a
reminder di
have a



things such

as hand

washing in

general

overall

health.

Researcher's Conclusion

An increase in hand hygiene was noted with supervision and electronic monitoring. Conclusion shows an increase in compliance. This study allowed around the clock examination of the focus group. This proved to be a benefit compared to observational only studies. These are often completed only during business day hours. Using already known material from the Joint Commission, CDC, and WHO assisted with educating educate the researchers giving them reasons why hand hygiene and HAI's continue to remain around the same compliance. The ICU's continued the study for 25 weeks. It showed that reminder systems do have a positive impact.

Protection of Human Subjects and Cultural Considerations

The author did not use any specific staff for completion of this research study. The study was mostly done by using working hospital staff and was measured by entry and exit alarms and automatic hand hygiene reminders. Since we know that observation alone can cause deviations, an automatic system was used to increase reliability and conclude the study with factual results. Throughout this study it did not matter who the staff person was.

This was not needed in the study so identities were not shared. Consent forms were not an issue in this study as people were never identified.

Strengths and Limitations

The study took 25 weeks to complete this is a relatively long time and assisted with the ability to obtain more accurate ratios. The sample size used was small. An ICU with 15 available beds and one with 16 available beds. It was also noted that the door alarm counts cannot fully noted as 100% accurate. For example staff can step in the doorway to converse with patients or family or can leave one room, sanitize, and go into the next room. Evaluating hand hygiene activity was the most influential component of this study. The conclusion shows that answers were obtained about the effectiveness of electric hand hygiene monitors.

Evidence Application to Nursing Practice

This study can affect a hospice nurse. Our patient population often have weakened immune systems and not remembering to complete hand hygiene can be detrimental to the patient's last days and in having the time to complete the goals and life experiences that they are able to finish. Hand Hygiene also affects hospice nurses as we are often exposed to an increase in body fluids and infections. In order to keep ourselves safe and healthy we must remember hand hygiene. This study shows us that we have a lot of work to do when it comes to hand hygiene. It shows that the electronic monitors does increase use of hand hygiene practices, but also shows that without reminders we do not continue the hand hygiene practice at the high

percentage. The study was also able to keep anonymity among healthcare workers, this may or may not have a positive impact on infection control.

Qualitative Article:

Jain, S., Edgar, D.,

Bothe, J., Newman, H.,

Wilson, A., Bint, B., . . .

Harris, J. (2015).

Reflection on

observation: A

qualitative study using

practice development

methods to explore the

experience of being a

hand hygiene auditor in

Australia. American

Journal of Infection

Control, 43(12), 1310-

1315. doi: 10. 1016/j.

ajic. 2015. 07. 009

Backgroun The article

d or was written

Introductio with the

n intention of

trying to

understand barriers to hand hygiene. The study witnessed persons coming into and going out of a patient's room. The study used a focus group. Results of this study give healthcare workers a better view of the influence observation has when it comes to

hand

hygiene and

the

influence we

have on

each other

in the

regard of

hand

hygiene.

Review of The study is

the trying to

Literature lessen the

spread of

staphylococ

cus aureus

bacteremia.

It was

completed

by hospital

staff

washing

their hand

or using

alcohol-

based
sanitizer
more often.
Observation
was used
by the
researchers
to formulate
concepts
and
establish
obstacles
that could
cause
hospital
employees
not to
complete
hand
hygiene.
There were
27
reference
articles
utilized by

the authors.

Discussion The

of researchers

Methodolo used an

gy observation

al approach

when

conducting

this study.

The

outcome

was to

figure out

how to

improve the

health care

staff's

compliance

with hand

hygiene

when going

into or

leaving a

patient's

room. This

study was conducted by using 25 hand hygiene auditors. The auditors were divided into three groups. **Assigning** members to different focus groups plus using people who didn't have immediate involvement with the study helped to give a more

widespread idea of findings. The focus groups took comprehens ive notes of what they saw. The study was concluded after 2.5 hours. Ideas and suggestions were then talked about in a large group conversatio n. This discussion came up with ideas about how to make

hand

hygiene

more

compliant

and reasons

as to why it

is missed.

Data The

Analysis researchers

used focus

groups and

observation

s to gather

knowledge..

Information

was

gathered

from the

focus

groups. it

was

conclusive,

because

there was

only a small

amount of

differences

among the

different

groups.

Facts were

analyzed

and

information

recorded

then the

group talked

about the

study and

recorded

the findings.

Researche The goal in

r's this study is

Conclusion to reduce

focusing a

study on

this topic is

to reduce

staphylococ

cus aureus

bacteremia

by use of
frequent
hand
hygiene.
Taking a
group
approach
and
discussing
the barriers
that were
found to not
performing
hand
hygiene
especially
since hand
hygiene is
the main
prevention
tool to
decrease
these
infections.

Researcher's Conclusion

It is important to utilize infection control staff and monitor hand hygiene in health care facilities. It is in the best interest of both patients and employees to complete hand hygiene. A study like this one helps us figure out why hand hygiene is getting missed and helps figure out how to change practices within a facility so that it will not be missed.

The authors that wrote this article are able to make conclusions because they gathered data that showed that this process improves hand hygiene compliance. It is also know that compliance will not likely stay this high after the study. It will probably drop down closer to baseline after time.

Including cliniations in studies could make them feel they have more input in infection control. It may encourage increased hand hygiene. If staff are satisfied they often participate in hospital policies more.

Protection of Human Subjects and Cultural Considerations

The auditors part in this study was a volunteer mode. They were able decline prior to the making of the study groups. Screening and invitations were delivered by e-mail. Focus groups were told that results would be posted and they would not be hidden. Consents were not required.

Strengths and Limitations

Observation was the primary approach to gather data on the use of hand hygiene. the small size of the auditors could have skewed the results of this study. With such a small group things could have been missed. This problem

could have been improved if more people would have agreed to participate. initially, 150 people were asked to be auditors but only 25 agreed. It would be difficult to monitor if more than one staff member were exiting or entering a room at the same time or friends or relatives would need to be identified from hospital staff. Distractions throughout a busy day can also skew results.

Evidence Application to Nursing Practice

The results of this study prove that if proper hand hygiene is used, conversations happen and plans are made it is possible to conquer the hurdles of not using hand hygiene. Hand Hygiene does lead to lower rates of staphylococcus aureus bacteremia. In Hospice nursing many patients are immunocompromised. Hand Hygiene is very important in not spreading infection from patient to patient. Many of our clients also have drains, lines and wounds which can easily introduce infection into the body. Hand hygiene is the number one barrier to keep both patients and health care staff healthy.

These kinds of studies are needed. Hospital staff need continued education and reminders as to why hand hygiene is important. Short cuts happen when staff get busy. We often need to be reminded why it is so important to be compliant with hand hygiene.

References

 Ellison, R. T., Barysauskas, C. M., Rundensteiner, E. A., Wang, D., & Barton, B. (2015). A Prospective Controlled Trial of an Electronic Hand https://assignbuster.com/hand-hygiene-reminder-system/ Hygiene Reminder System. *Open Forum Infectious Diseases, 2* (4). doi: 10. 1093/ofid/ofv121

Jain, S., Edgar, D., Bothe, J., Newman, H., Wilson, A., Bint, B., . . . Harris, J. (2015). Reflection on observation: A qualitative study using practice development methods to explore the experience of being a hand hygiene auditor in Australia. *American Journal of Infection Control, 43* (12), 1310-1315. doi: 10. 1016/j. ajic. 2015. 07. 009