#### CASESTUDY

# Improving Hygiene in Early Childhood Education Centres

A study assessing the impact of SIQURA Hospital Grade Disinfectant and Protectant compared with conventional cleaning protocols.





#### INTRODUCTION

# **Childcare: A Challenging Environment to Keep Clean**

Filled with lots of little people and a wide range of surfaces, it is an ongoing challenge to create a genuinely hygienic environment within Early Childhood Education and Childcare Centres.

With some centres outsourcing cleaning and others relying on already stretched staff to fulfil the daily cleaning protocols, managing the infection control risks is often a challenging task.

One of the critical issues that we've identified is that conventional disinfectant products aren't doing enough — while they kill the germs of the surface, they do nothing to defend against what is to come. This means that as soon as a surface is touched after disinfection, the potential for contamination and infection returns.

All this to say, that a surface can have been recently cleaned and even 'look clean' but still be an infection risk.







#### WHAT IS SIQURA?

# An entirely new approach to cleaning & sanitation

SIQURA™ Hospital Grade Surface Disinfectant & Protectant destroys bacteria and locks onto surfaces to provide ongoing bacterial protection:

- 24hrs protection on high touch surfaces
- 30 days protection on low touch areas
- Kills 99.99% of Bacteria
- Effective against viruses\* including COVID-19

SIQURA™ Hospital Grade Disinfectant & Protectant has undergone extensive laboratory testing to national and international standards.

SIQURA™ is listed on the Australian Register of Therapeutic Goods (ARTG) as being effective against COVID 19 and a broad range of other germs.





#### THE TEST

## The Test: 10 centres over 30 days

We selected 10 centres throughout Australia and identified 10 high traffic touch points in each centre to test.

To ensure accuracy of our results we used two different measurement methods — **ATP Testing** and **Bacterial Plate Testing**.

The test was conducted over 30 days.













### **ATP Testing**

ATP testing is a rapid testing method used by Hygiene Auditors to quickly assess the cleanliness of surfaces. ATP monitoring is used in facilities to confirm that ATP (Adenosine Triphosphate) presence is eliminated or minimized by effective sanitation procedures. ATP monitoring is measured in Reflective Luminosity Units (RLU).

#### **ATP** test results:

- < 100 RLU are considered good results
- < 20 RLU are considered excellent results



## **Bacterial Plate Testing**

Plate testing is a method used to measure the amount of bacteria on a surface. We used a swab to collect bacteria from a surface then transferred the bacteria to a growth plate. We let the bacteria grow on the plate and count how many there are. The result is measure in Colony Forming Units (CFU)

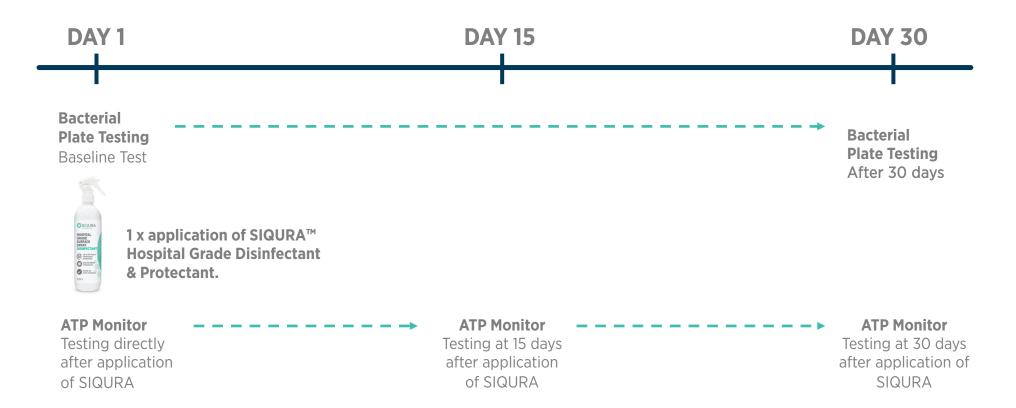
#### Plate test results:

- < 20 CFU is considered a good result
- < 10 CFU is considered an excellent result

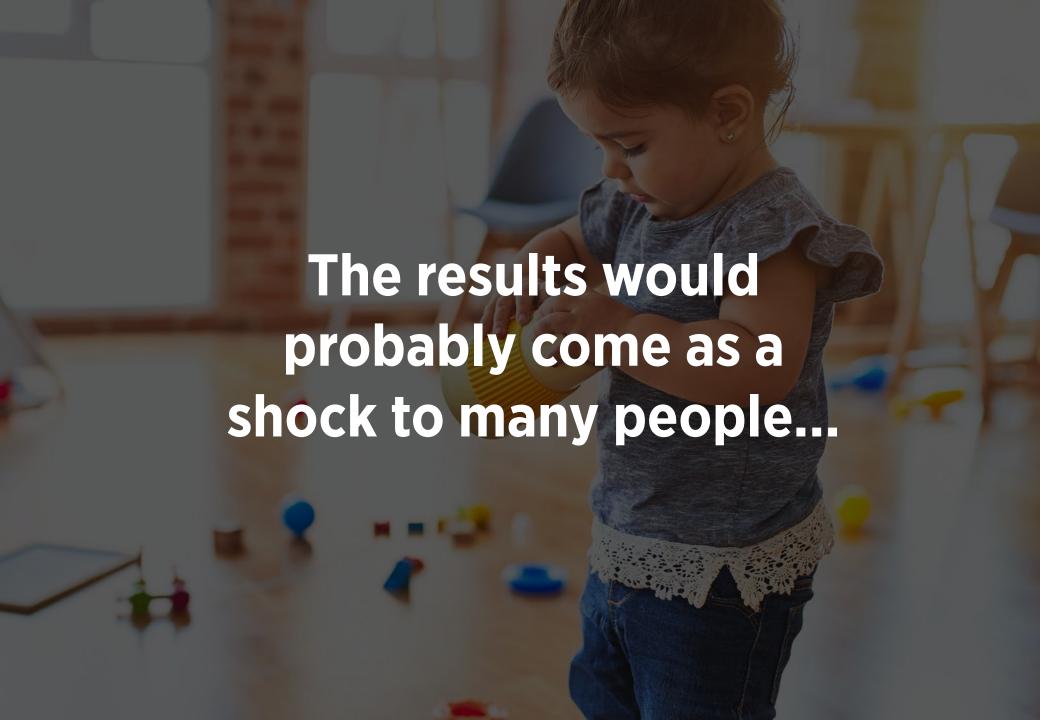
THE TEST

Touchpoints had been cleaned using the regular cleaning protocols in each centre.

#### Timeline of the testing







#### WHAT WE FOUND

# Surfaces that had been cleaned with the standard cleaning protocols still returned alarmingly high ATP readings...

Our baseline ATP test showed us that ALL surfaces that had been cleaned with the standard protocols had very high ATP readings indicating that the surfaces are very dirty and in need of immediate cleaning.



**Door Handle** RLU=5323



Cot Rail RLU=5681



Kitchen Sink RLU=6104

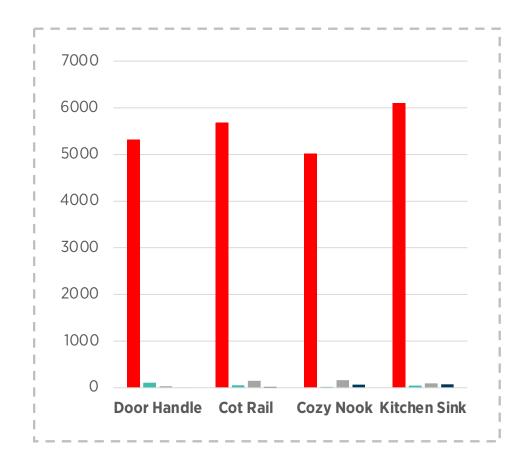


< 20 RLU are considered excellent results



# With just one application of SIQURA the ATP levels dropped to acceptable level—and remained there for 30 days.

After cleaning once with SIQURA™ all surfaces tested returned levels of ATP that are considered acceptable. Even 15 and 30 days after application the ATP level where still showing acceptable ATP levels.



**Regular Cleaning** 

■ Day 1■ Day 15■ Day 30



#### THE RESULTS

# The bacterial plate testing returned similar results...

Several touch points returned levels of bacteria that would be considered as extreme — the kitchen sink and ball pit returned results of 24000 and 14000 CFU respectively.

After one application of SIQURA™ both of these touch point returned result of <10 CFU 30 days post application

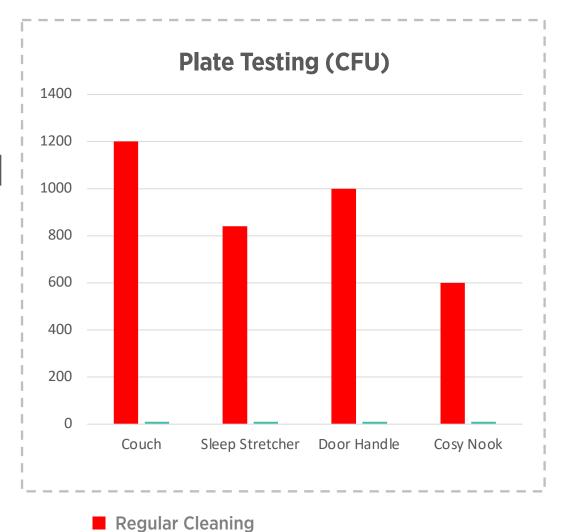




#### THE RESULTS

## Bacterial plate testing is considered highly accurate method

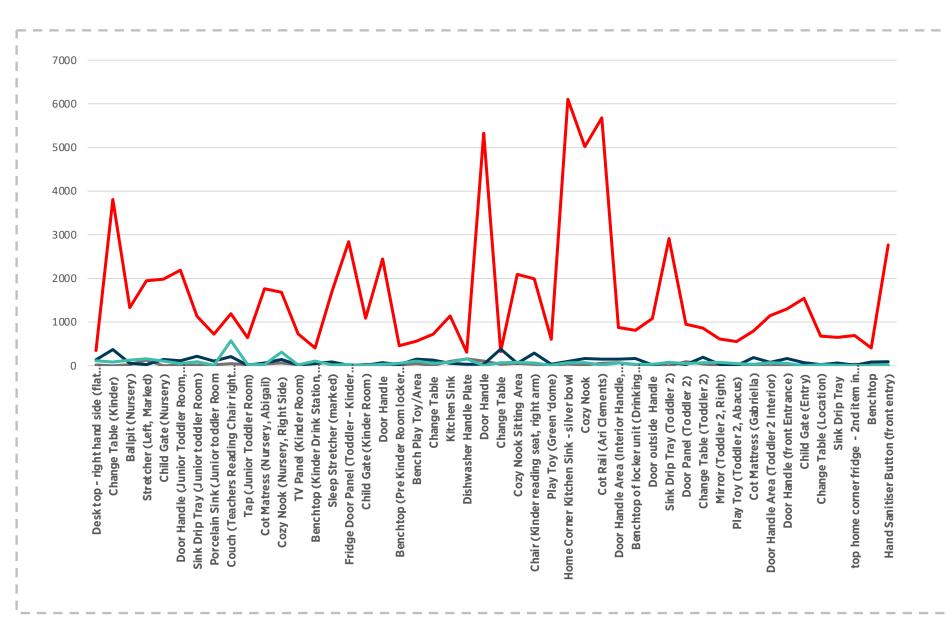
Even after 30 days the results from the areas treated with SIQURA were excellent.



Day 30



#### **Overall Results**





#### THE RESULTS

# While surfaces had been visibly cleaned — they weren't hygienic...

It is common to think that a visibly clean surface is also a hygienic surface but as we can all see from this case study that is not the case. Traditional cleaning and disinfecting is good but it cannot provide for long term protection from germs.

To keep a surface germ-free we must continually disinfect the surface all day every day — OR use a durable protectant such as  $SIQURA^{TM}$ .

Along with numerous studies and independent laboratory tests, we believe that the risks associated with the spread of germs though out early childhood education centres can be dramatically reduced through using  $SIQURA^{TM}$ .





#### THE SOLUTION





#### **SIQURA™** is Cost Effective

1 liter of SIQURA™ will cover up to 80 square meters. Regular cleaners will cover the same areas but considering they need to be applied multiple times a day to keep the germs at bay the cost saving in product, time and energy is huge.



#### **SIQURA™** is Non-Corrosive

Regular disinfectants based on Chlorine Bleach, Acids and Alcohol can be extremely corrosive and flammable. These product greatly reduce the usable life of equipment. SIQURA™ is non corrosive and non flammable



#### THE SOLUTION





#### **SIQURA™** is Effective

SIQURA™ 75HG has been tested according to the following methods EN1276, EN13697, EN13624, ASTM 1053, EN 14476, AOAC 991.47, AOAC 991.48, AOAC 991.49 and ASTM E2149 and is effective against a broad range of bacteria and viruses such as Human Coronavirus E229 (including COVID-19), Murine Hepatitis Virus (MHV), Staphylococcus aureus, Enterococcus hirer, Escherichia coli, Pseudomonas aeruginosa and Salmonella choleraesuis.



#### **SIQURA™** is Non Harmful

SIQURA™ is ideal to use around children and our environment. SIQURA™ is backed by Dermatest certification and does not require any special handling requirements, no messy dilution, no nasty chemical burns.



### www.siqura.com.au

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