

3M™ Clean-Trace™ Clinical ATP System
Effective Hygiene Management



The Future of Hospital Hygiene



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With the increased focus on infection prevention in recent years, there has been more emphasis on the ability of hospitals and other healthcare establishments to demonstrate that they operate to the highest possible standards of hygiene.

Being able to show that cleaning regimes are effective plays an important role in this process. Whilst visual assessment of cleanliness plays an important part, more recently there has been an increasing need for a more sensitive and quantitative approach to hygiene monitoring.

The 3M™ Clean-Trace™ ATP System represents a cost-effective solution which supports the focus on improved quality of cleanliness and hygiene management in healthcare settings. The system helps assess standards of hygiene and the effectiveness of cleaning procedures by measuring the amount of adenosine tri-phosphate (ATP) in a sample. It indicates in less than one minute overall biological contamination including microbiological and human residues. This provides a fuller picture of the hygienic status of surfaces and equipment.

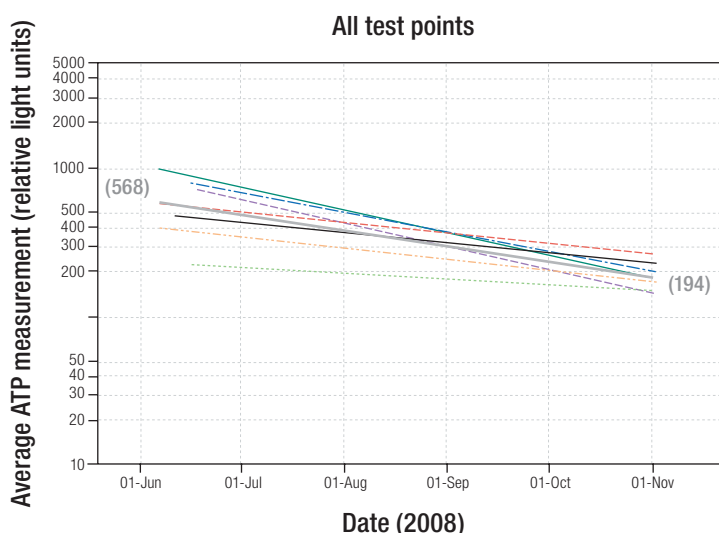
Benefits in action:

United Kingdom Department of Health Showcase Hospitals Programme

The Clean-Trace system has been evaluated by the UK Department of Health (DH) as part of the Healthcare Associated Infection Technology Innovation Programme's Showcase Hospitals Trial.

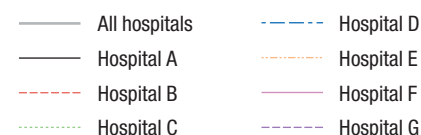
The Clean-Trace system was placed in seven Showcase Hospitals and all hospitals experienced an overall decline in the level of contamination over the evaluation period¹.

➤ Average readings for all test points (log scale)



In addition to the reduction in biocontamination levels;

- Hygiene awareness improved
- Its use was popular with staff, patients and visitors
- In some hospitals, a spirit of healthy competition developed helping staff focus on the value of cleanliness
- User ratings were positive and all 31 factors assessed scored over 6 out of 10



Numbers in brackets are initial and final fitted average ATP for 'All hospitals' Source: Campden BRI Report No: SG/REP/113186/2 (15 May 2009)



The 3M™ Clean-Trace™ Data Trending Software:

- Secure capture and storage of hygiene data
- Provides convenient and easy preparation of hygiene reports
- Reports provide simple identification of priority areas for improvement
- Clear identification of re-test results alongside original results showing remedial actions and demonstrating due diligence
- Supports a continuous improvement program

How the 3M™ Clean-Trace™ Clinical ATP System works

Gathering hygiene data using the Clean-Trace Clinical ATP system involves sampling a surface with a 3M Clean-Trace Clinical ATP Swab, activating the test and placing it into the 3M Clean-Trace NG Luminometer for reading. The result is displayed in Relative Light Units (RLU) and is saved within the memory of the luminometer.

On completion of testing, hygiene data can be uploaded from the Clean-Trace NG luminometer to the Clean-Trace Data Trending Software. The data is then available for the generation of reports.

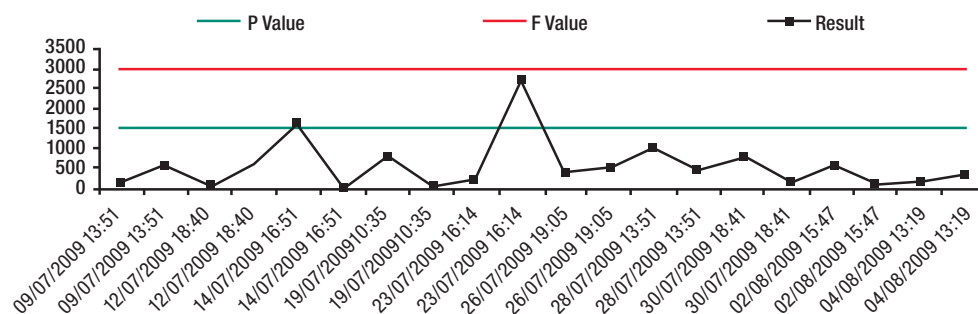
Examples of some of the reports available are shown below:

Master Sanitation Schedule August 2009

Legend		Overall Score		Overall Status	
		Pass		Fail	
		Green		Red	
Sample Planward 2		Date		Time	
		01		02	
		03		04	
		05		06	
		07		08	
		09		10	
		11		12	
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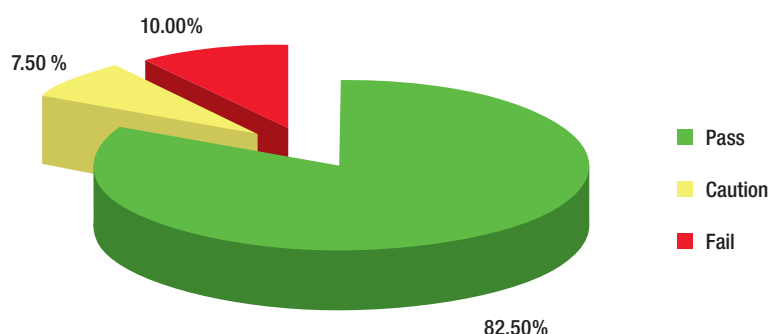
Test Point Trend

Test Plan: Chartable
Sample Plan: Ward5
Site ID: Site ID 1
Number of times
Test Point used = 10



Sample Plan Summary

Sample Plan: All selected Sample Plans
Site ID: All Selected Site ID's
Total Plan(s) used = 1: Total Site(s) used = 1



How it can help...

Infection Prevention and Control Management and Teams

- Allows a deeper understanding of cleaning performance over time and highlights areas that most need improvement
- Encourages hygiene awareness and a hospital wide responsibility for cleanliness
- Provides transparency of the hygienic status of the hospital by providing clear reports
- Reduces administration time in preparing hygiene reports
- Provides information for the continual improvements of hygiene standards

Chief Executives and Hospital Board Members

- Demonstrates a commitment to improving hospital cleanliness and hygiene standards
- Supports and complements visual assessments with objective, quantitative hygiene data
- Helps improve hospital image and opportunity for positive PR
- Can help grow the public's confidence in cleanliness in hospitals
- Provides a hospital / multi-site view of hygiene standards

Facilities / Domestic Services

- Provides information to optimise cleaning regimes which can generate savings in associated cleaning costs
- Highlights 'high risk' areas and provides information for targeted cleaning
- Enables proactive cleaning schedules
- Excellent training tool – shows personnel an immediate link between good hygiene practice and the hygiene test result
- Allows cleaning personnel to demonstrate the effectiveness of their cleaning



3M™ Clean-Trace™ Clinical ATP System



The system offers a comprehensive approach to ATP rapid hygiene monitoring with the flexibility to scale up as hygiene plans evolve.

It includes:

- 3M™ Clean-Trace™ Clinical ATP Swabs
- 3M™ Clean-Trace™ NG Luminometer & Docking Station
- 3M™ Clean-Trace™ Data Trending Software
- 3M Service and Technical Support

Offering a cost effective solution to monitoring cleanliness of surfaces and the storage and management of test data, the Clean-Trace Clinical ATP system allows healthcare establishments the opportunity for continuous improvement of their hygiene management systems.

The 3M™ Clean-Trace™ Clinical ATP system provides hospital-wide control, allowing the:

- Measurement, monitoring, improvement and control of the hospital cleaning process
- Easy comparison of hygiene performance between different areas in a hospital
- Demonstration with data of the trends in cleaning effectiveness
- Easy management of data reporting
- Continual improvement of hygiene standards
- Use of objective data to support compliance to hygiene standards
- Improvement of patient experience and hospital image

3M™ Clean-Trace™ Clinical ATP system benefits:

Easy to use:

- The simplicity of tests reduces variability from user to user ensuring accurate and consistent results
- Minimal training required leading to easy implementation

- Easy integration into existing daily cleaning checks

Rapid results:

- Results available in less than a minute
- Allows assessment of the hygienic status of facilities in real time
- Enables immediate corrective actions and proactive cleaning schedules

Quantitative monitoring:

- Provides quantitative test scores in proportion to the amount of organic matter present on the surface tested
- Enables the identification of potential high-risk areas
- Allows implementation of minimum thresholds of acceptable cleanliness

Simple to interpret:

- Results are presented as Relative Light Units (RLU) that directly relate to the degree of contamination on equipment or surfaces
- Simple traffic light pass / caution /fail status also available for easy interpretation

Reliable and accurate:

- Can be combined with subjective visual assessments to provide a more accurate assessment of hygiene status
- Superior repeatability^{2,3} and excellent sensitivity³

Improved cleaning quality assurance:

- Enables potential adjustment of cleaning frequency, chemicals and contact time
- May enable cost savings on cleaning materials and labour requirements
- Provides an excellent training tool – enabling personnel to see a clear and immediate link between good hygiene practice and the hygiene test result

Tool to help hand cleaning compliance:

- Provide objective feedback on hand cleaning performance immediately post wash
- Helpful to reinforce hand washing training and audit programs



References:

1. UK Department of Health, HCAI Technology Innovation Programme, Showcase Hospitals Report Number 2, The 3M™ Clean-Trace™ Clinical Hygiene Monitoring System. July 2009
2. The repeatability of hygiene test systems in measurement of low levels of ATP. W.J. Simpson, C.J. Giles, H.A. Flockhart. Cara Technology Limited, Leatherhead Enterprise Centre, UK Report 30606 , 27 July 2006.
3. Protocol for assessing the sensitivity of hygiene test systems for live microorganisms and food residue. W.J. Simpson, J.L. Archibald, C.J. Giles. Cara Technology Limited, Leatherhead Enterprise Centre, UK Report 120906, 27 July 2006.



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