

# Prevention Program for Hotel to minimize the SARS-CoV-2 risk

Methodological approach dedicated to SARS-CoV-2 prevention sanitation performed through hydrogen peroxide

## *Virological Risk*

The SARS-CoV-2 is a virus with envelope RNA generated by the cell from which it is gemmed. It has only the 40% of the amino acids in common with 2003 SARS. Its environmental survival is limited but it can be higher in biological matrices; it is important to adopt specific cleaning processes and the House Keeping Staff must always wear the mask and frequently change the gloves to clean and to not contaminate the spaces where they are operating.

The Hotel industry has elaborated some protocols in accordance with the current regulations, to define the best practices to adopt. Duetorrihotels formalized these guide lines in the SARS-CoV-2 prevention and risk reduction protocol, which has been distributed to all the hotels of the company. The protocol is always available to all the employees; the conformity and the correct execution of these indications are objects of this slide show and constantly checked through periodic audits made by the Management and the Company Consultants which inform the General Manager in case of not conformity.

The entire Staff has been involved and trained and is free to discuss any doubts with the managers which will contact the general management to consider any eventual corrections. The failure application of the prevention measures or the failure to report any situations of risk will be subject to appropriate disciplinary actions.

For this reason, Duetorrihotels makes available its standards to every tour operators and official control authorities indicating every possible situation of not conformity and of risk in order to ensure the health of its Guests and Staff.

The most important point to consider is the assessment and the control of the factors of risks in various circumstances, phases and situations in the facilities.

Actually, the reduction of the impacts through the adoption of preventions procedures is not practicable because the effective measures to reduce the severity of the disease are not available or known.

The only helpful way to reduce the problem is decreasing the possibilities of contagion, adopting protections and monitoring the procedures. These activities can be structural (usually passive), behavioural (usually from instructions and proactive behaviours) and techniques with the environmental sanitations.

First, we can adopt barriers, social spacers, hand sanitizing solution dispensers etc. etc. Then it is important to wear masks and gloves, respecting the social spacers, often sanitizing hands and surfaces, often cleaning the drinks dispensers and tables.

The Airbone Disease (diffusion through aerosol dispersion) is now certain, with the aggravating circumstance of a possible contamination of the surfaces, which can become indirect sources of infection. Therefore, the Duetorrihotels has defined a sanitary protocol in order to safeguard the Guests and the Staff: the protocol of sanitation based on the nebulization of hydrogen peroxide.

This document meticulously defines the measures to adopt and the way to put them into effect. The aim is to determinate a clear politic and a mechanism which guarantee higher safety to Guests and to the Staff, avoiding the possibility of contagion.

The Duetorrihotels properties put in place the document standards and also all the partner economic operators must implement them.

The Duetorrihotels distributed the protocol to partners and stakeholders interested in it (i.e., tour operators, official supervisor authorities and trade unions etc. etc.)

Additionally, the protocol application is mandatory and subject of internal monitoring and supervision (RSPP responsible, General Manger, Consultants). The aim is to check the conformity, defining also eventual deficiencies and the activities to improve the protocol standards in order to make them more effective and always correctly applied.

Therefore, the protocol is subject to constant verification and the environment sanitation is one of the most important point to safeguard the public health. For this reason, the ASKYClean company proposes the equipment and an environment sanitation process validated by many microbiological testings, which are integrated to the protocol together with the surfaces cleaning and sanitation procedures.

The Duetorrihotels will always demand this activity to every employees, the General Manager and the Managing Director activated some fast track channels to guarantee this activity with the purpose to safeguard the Guests and the Staff health.

The ASKYClean environmental sanitation and prevention process involves the nebulization of hydrogen peroxide, which is considered the gold standard among the active ingredients. Some tests verifying the bacterial count on surfaces and areas, can also value the efficacy of this procedure, during the experimental and operational phases.

These tests showed that the cleaning/sanitation is effective, approving also the performance and the timing of the procedure. The effective execution of the treatment is reported on the hotel daily rooming lists, as requested by the management.

The analysis of the microbial load is the main evidence of the treatment effectiveness, because the SARS-CoV-2 virus has higher sensibility, than the bacterial virus, to the active ingredients. For this reason we consider valid a treatment based on 1 minute of nebulization every 20 m<sup>3</sup>, that means 2,5 minutes for single rooms and 3,5 minutes for double rooms. After the treatment a security time of 40/60 minutes is required before entering in the room.

The general consideration is to proceed with 1 minute of treatment every 20 m<sup>3</sup>; each operation must be registered on the housekeeping activities schedule, stored in the management office. A microbiological inspection testing will be repeated every 6 months.

# SARS-CoV-2 and the risk of transmission during the catering service operations.

The protocol clearly indicates to wear masks and gloves to sanitize chairs, tables, surfaces of each catering services and during the preparation of the dishes.