



Coronavirus Bulletin

Hand Hygiene Guide & Visual Aids

(Please print & Display widely)



Coronavirus



What is Coronavirus?

The coronavirus is a single-stranded **RNA virus with envelope** and it has a diameter around $0.1\mu\text{m}$. The virus spreads via droplets from such as cough, direct contact with infected person or contact of hands with contaminated environmental surfaces. So far, the below 6 types of coronaviruses are confirmed to infect human.¹⁾

- Flu virus among humans: 4 types Human Coronavirus (HCoV) : HCoV-229E, HCoV-OC43, HCoV-NL63, HCoV-HKU1
- SARS (Severe Acute Respiratory Syndrome) – CoV
- MERS (Middle East respiratory syndrome) –CoV

What is the feature of the 2019-nCoV, the novel coronavirus?

The 2019-nCoV is a newly identified coronavirus. The common symptom is fever and respiratory symptoms including cough and breathing difficulties. The viral infection also causes pneumonia, severe acute respiratory syndrome and kidney failure for severe cases.²⁾ The estimated incubation period is ranged from 2 to 11 days but it could be up to 14 days according to the previous other coronavirus experiences. Detailed information is not yet confirmed including the animal source of infection. Thus, it is recommended to stay focus on the reliable latest information such as WHO.³⁾

How can we protect ourselves from coronavirus?

WHO recommends below practices to prevent infectious disease transmission including coronavirus.⁴⁾

- Frequently **clean hands** by using **alcohol-based hand rub or soap and water**;
- When coughing and sneezing **cover mouth and nose with flexed elbow or tissue** – throw tissue away immediately and **wash hands**;
- Avoid close contact with anyone who has fever and cough;
- If you have fever, cough and difficulty breathing seek medical care early and share previous travel history with your health care provider;
- When visiting live markets in areas currently experiencing cases of novel coronavirus, avoid direct unprotected contact with live animals and surfaces in contact with animals;
- The consumption of raw or undercooked animal products should be avoided. Raw meat, milk or animal organs should be handled with care, to avoid cross-contamination with uncooked foods, as per good food safety practices.



What kind of disinfectants are effective against coronavirus?

(HCoV:Human Coronavirus BCoV :Bovine Coronavirus)

The coronavirus is an enveloped virus which can be inactivated by such as **alcohol** and **sodium hypochlorite** according to published papers. Below is the summary of the evidence as well as the list of papers.

Disinfectant	Concentration	Coronavirus	Reference
Ethanol	70%	HCoV	A, D
85% ethanol product	more than 40% (more than 34% ethanol)	SARS, MERS	B
Ethanol product (acid)	76.9-81.4vol%	BCoV	C
Isopropanol	50%	HCoV	A
75% isopropanol product	more than 40% (more than 30% isopropanol)	SARS, MERS	B
Sodium hypochlorite	more than 1,000ppm	HCoV	D

- A) Saknimit et al., Virucidal Efficacy of Physico-chemical Treatments Against Coronaviruses and Parvoviruses of Laboratory Animals. *Exp. Anim.*, 37(3), p.341-345, 1988
- B) Siddharta et al., Virucidal Activity of World Health Organization–Recommended Formulations Against Enveloped Viruses, Including Zika, Ebola, and Emerging Coronaviruses. *J. Infect. Dis.* 215, p.902-906, 2017
- C) Reiko Matsumura et al., Efficacy of Virucidal Alcohol-Based Hand Antiseptics. *Journal of antibacterial and antifungal agents* 41(8), p.421-425, 2013
- D) Sattar et al., Chemical disinfection of non-porous inanimate surfaces experimentally contaminated with four human pathogenic viruses. *Epidem Inf.*, 102, p.493-505, 1989

Reference

1) Infectious disease surveillance center (Japan), What is Coronavirus? (2020 / 1 / 10) (translated title) <https://www.niid.go.jp/niid/ja/from-idsc/2482-corona/9303-coronavirus.html>

2) WHO (2020) Coronavirus Accessed on 3rd Feb 2020. Available at <https://www.who.int/health-topics/coronavirus>

3) WHO (2020) Q&A on coronaviruses Accessed on 3rd Feb 2020. Available at <https://www.who.int/news-room/q-a-detail/q-a-coronaviruses>

4) WHO (2020) NovelCoronavirus(2019-nCoV)advice for the public Accessed on 3rd Feb 2020. Available at <https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public>

Proper way to sanitize your hands



Clean Hands Here

1  Apply hand Sanitizer	2  Spread the sanitizer	3  Rub between your fingers	4  Rub between the thumb and index finger
5  Rub on top of your fingers	6  Rub your palm	7  Rub your wrist and ensure there are no bubbles	8  Clean hands & Safe Hands

Duration for the entire procedure: 20-30 seconds



World Health Organization

#ItsInYourHands

Clean Hands Saves Lives

Go

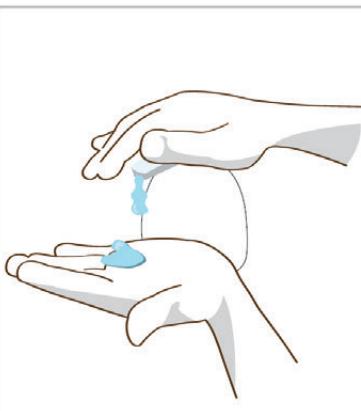
DON'T Substitute hand washing with sanitizing only

Proper hand washing

to Kill Germs & Bacteria



Wet your hands



Apply foam soap



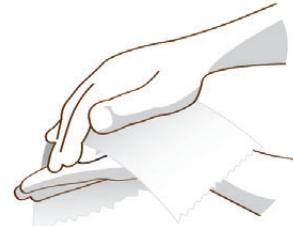
Rub hands palm to palm



Rub tips and fingers



Rinse your hands



Dry your hands with a paper hand towel

Duration for the entire procedure: 20-30 seconds

**DON'T
FORGET TO WASH**

- Between your fingers
- Under your nails
- The top of your hand

Proper way to Dry Hands

If hygiene is important to you, paper hand towels are the right hygienic choice.

Bacteria on finger pads

+194% more bacteria

Warm Air Dryer



Bacteria spread upto
0.25m from device
90% dry hands after
47 seconds

-76% less bacteria

Paper Hand Towels



No bacteria spread at
all 90% dry hands after
10 seconds

+42% more bacteria

Jet Air Dryer



Bacteria spread upto
2m from device
90% dry hands after
10 seconds



World Health
Organization

#ItsInYourHands

Clean Hands
Saves Lives

Intelligent Solutions

TO CLEAN, CARE AND PROTECT

wetstrength

Wet hands are not clean. Our high wet strength paper towels ensure 90% dry hands after 10 seconds. They're more efficient, they don't spatter germs & most people prefer them.

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What the Science says...

Disgusting truth about Hand and Jet Air Dryers

Research shows that surfaces of Hand & Jet Air Dryers have more contamination than the average toilet seat.

White Papers, Studies & Research

Review summaries of featured white papers, studies and research to learn the dirty details about Hand & Jet Air Dryers and discover the disgusting truth for yourself. Ask us for links to the summaries of the various studies below or research it for yourself.



Mayo Clinic Proceedings
The Hygienic Efficacy of Different Hand-Drying Methods: A Review of the Evidence



World Health Organization
WHO Guidelines on Hand Hygiene in Health Care



European Tissue Symposium
9 out of 10 people prefer Paper Towels to Jet Air Dryers in washrooms



Journal of Hospital Infection
Microbiological Comparison of Hand-Drying Methods: The Potential for Contamination of the Environment, User, and Bystander

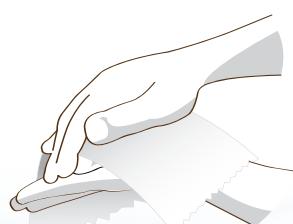


Journal of Hospital Infection
Comparison of Different Hand-Drying Methods: The Potential for Airborne Microbe Dispersal and Contamination



Journal of Applied Microbiology
Evaluation of the Potential for Virus Dispersal during Hand Drying: A Comparison of Three Methods

Recommended Hand Drying Solutions



Paper
Hand
Towel

Intelligent Solutions

TO CLEAN, CARE AND PROTECT

Germs Hotspots



Public Sinks



Food preparation areas



Dining area



Keyboards, mouse, phones, office desktops and mugs



Toilet seats and handles



Public washrooms



Photocopier machines



Door handles



Lobbies



How to minimize spread of germs at Germ Hotspots.

- Ensure Hand Hygiene Solutions are available at the Hotspot
- Ensure visual aids are deployed to ensure compliance.

Recommended Hand Hygiene Solutions



Sanitizers



Paper Hand Towels



Foam Soap



Antibacterial Hand Disinfectant

Hand Sanitizer pouch system

Instant hand rub sanitizer

Kills 99% of germs without water

Unique Sealed Cartridge Design prevents product cross contamination

Ideal for use in the health and food service industry

Dispenses 400 ml per pouch, 0.4 ml per push.

Best cost in use product



Hand Sanitizer bottle system

Broad spectrum of antimicrobial activity

Kim-Fay Antibacterial Hand Disinfectant is a quick drying, alcohol-based hand rub containing ethanol (76.9 to 81.4 vol %) as the active ingredient. It is effective against enveloped and non-enveloped viruses, Gram-positive and Gram-negative bacteria, and fungi.

Efficacy tests performed according to international standards

When there is a substantial risk of being infected with non-enveloped viruses, the hand rub with scientifically proven virucidal activity against those infection-causing pathogens should be used.

Non-enveloped viruses do not have lipid envelopes, and are highly resistant to disinfectants. On the other hand, enveloped viruses have lipid envelopes, and are relatively easy to inactivate.

Non-sticky feeling

It is quick-drying, and thus leaves your hands feeling smooth after application.

Gentle on skin

It contains glycerin, isopropyl myristate and allantoin as skin moisturisers.

500 ml or 1 ltr

Dispenses from table top, metal bracket (500ml only)

Uses push/ manual dispenser or automatic touch free dispenser.

Dispenses 1.5 ml per squirt. This is as per WHO guidelines for the amount needed to effectively clean hands.



Kills 99.99% of germs

Meets CDC&WHO
efficacy standard*



Price Guide

Code	Item	Qty	Price Exc. VAT	VAT	Price Incl. VAT
POUCH SYSTEM					
540800	HAND SANITIZER	400ml	1,500.00	240.00	1,740.00
9018	SPRAY HAND SANITISER DISPENSER	1 Unit	2,500.00	400.00	2,900.00
BOTTLE SYSTEM					
9036	MANUAL DISPENSER 1000ML	1 Unit	3,000.00	480.00	3,480.00
9037	AUTO DISPENSER 1000ML	1 Unit	6,000.00	960.00	6,960.00
540806	KIM-FAY ANTIBACTERIAL AND VIRAL HAND DISINFECTANT	500ml	690.00	110.40	800.40
540807	KIM-FAY ANTIBACTERIAL AND VIRAL HAND DISINFECTANT	1000ml	1,190.00	190.40	1,380.40
9038M	METAL WALL BRACKET FOR 500ML	1 Unit	1000.00	160.00	1,160.00

For More
Information Contact:

Customer care

Tel: 0708109992/0710600979/0715900132

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Contact us for a free trial or demonstration of our products on
Tel: +254 (0)20 651768/9, | Wireless: +254 020 3512819/25/34
Email: customercare@kimfay.com | **www.kimfay.com**

Intelligent Solutions A small graphic of a paper roll with the Kim-Fay logo on it.

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