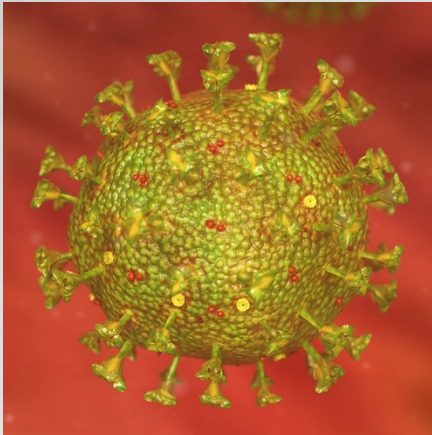


Bacterial and Viral Threat



Disinfectant Application

DSV kills harmful bacteria, fungi and viruses, including:

BACTERIAL PERFORMANCE:

- *Acinetobacter baumannii*
- *Burkholderia cepacia*
- *Campylobacter jejuni*
- *Corynebacterium ammoniagenes*
- *Enterobacter aerogenes*
- *Enterobacter cloacae*
- *Enterococcus faecalis*
- *Enterococcus faecium* VRE
- *Escherichia coli*
- *Klebsiella pneumoniae*
- *Legionella pneumophila*
- *Listeria monocytogenes*
- *Pseudomonas aeruginosa*
- *Salmonella enterica*
- *Salmonella enterica subspecies entérica serovar Paratyphi B*
- *Salmonella enterica subspecies entérica serovar Typhi*
- *Serratia marcescens*
- *Shigella dysenteriae*
- *Shigella flexneri* serotype 2B
- *Shigella sonnei*
- *Staphylococcus aureus*
- *Staphylococcus aureus* CA-MRSA
- *Staphylococcus aureus* HA-MRSA
- *Streptococcus pyogenes*

MILDEWSTATIC PERFORMANCE:

- *Aspergillus niger*

VIRUCIDAL* PERFORMANCE:

- Avian influenza A Virus
- Coronavirus
- Hantavirus
- Herpes Simplex Virus Type 1
- Herpes Simplex Virus Type 2
- Hepatitis B Virus
- Hepatitis C Virus
- Human Coronavirus
- HIV-1
- Influenza A
- Influenza A Virus
- Norovirus
- Respiratory Syncytial Virus
- Rotavirus
- Vaccinia Virus

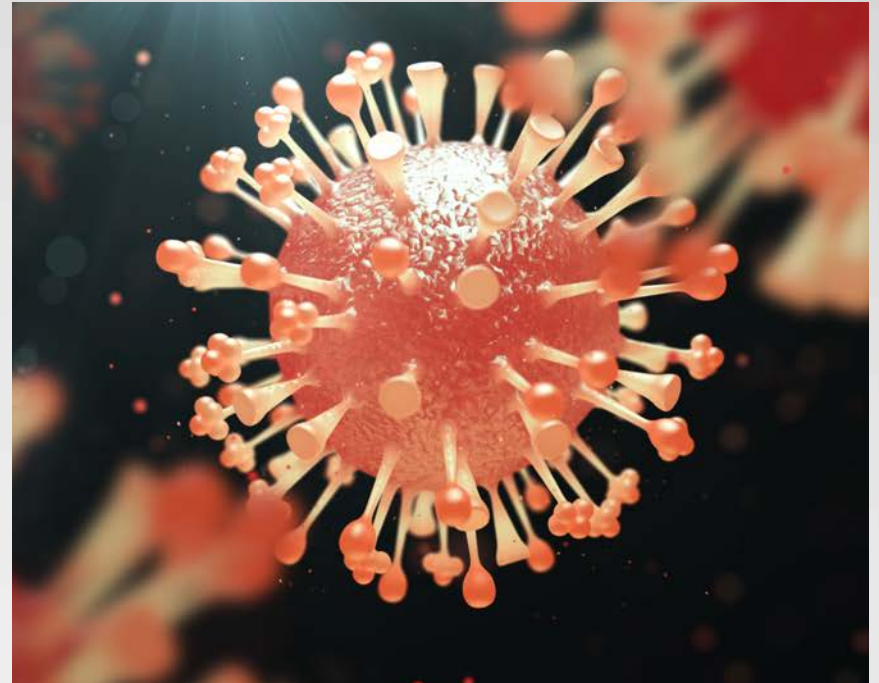


Viral Threat: **Influenza** (Flu, Bird Flu, Swine Flu, etc.)

Two main risks to humans

- 1) Direct infection from infected people or animals.
- 2) If given enough opportunities, viruses will change into more infectious forms.

Half of those people reported infected with the Bird Flu have died.



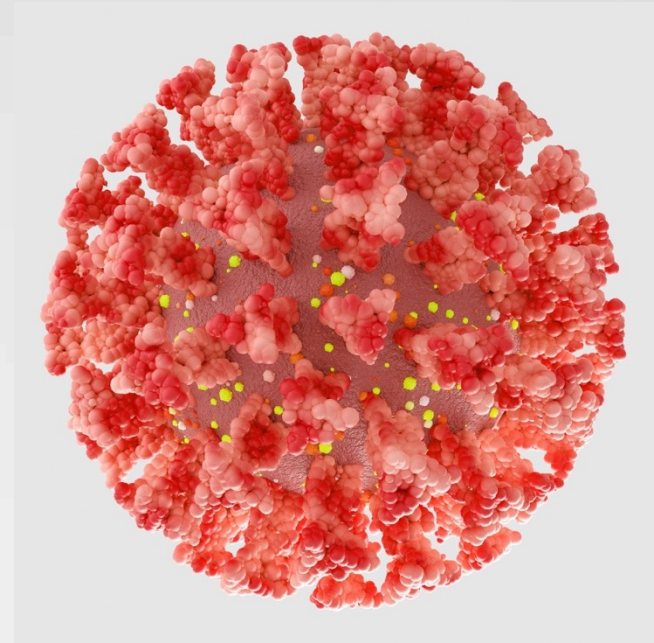
Viral Threat: **SARS Cov-2**

Cause of Coronavirus COVID-19

Highly contagious
respiratory disease
cause of 2020 pandemic.

*COVID-19 can be
contagious before people
have symptoms.*

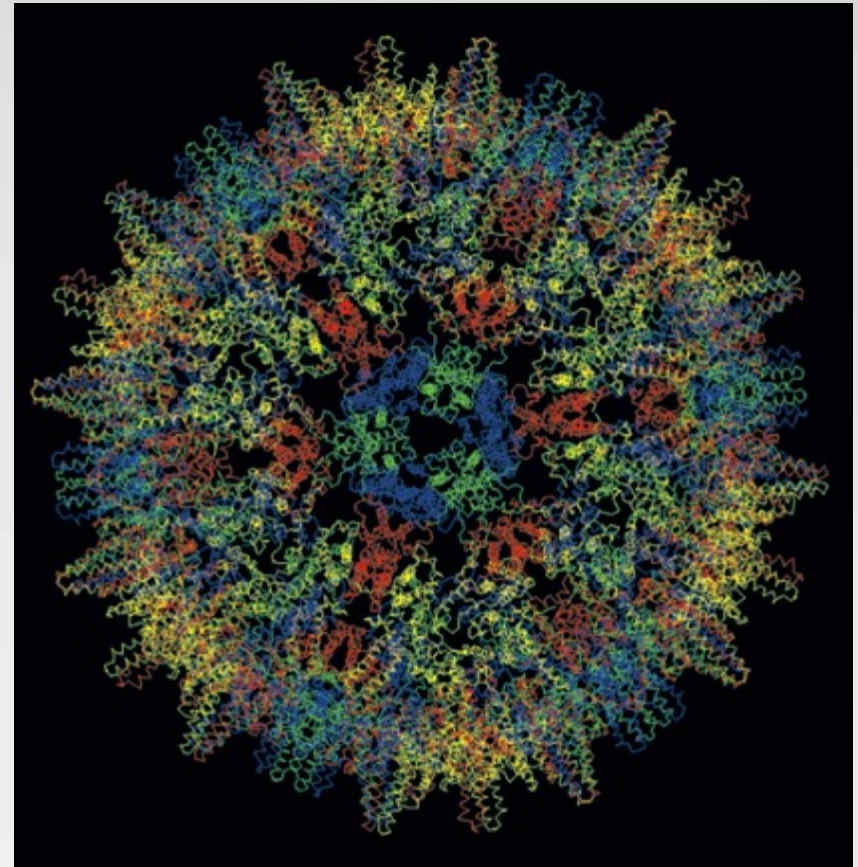
*Some infected people
have no symptoms at all.*



Viral Threat: Hepatitis B & C

Hepatitis B is a serious liver infection. Causes acute illness and can lead to chronic or lifelong infection, cirrhosis (scarring) of the liver, liver cancer, liver failure and death.

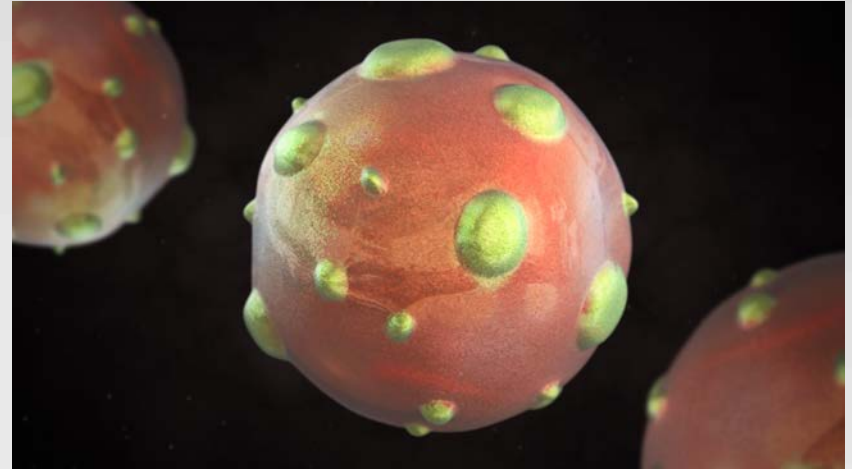
Hepatitis C is a liver disease. Causes a silent, chronic infection that can lead to cirrhosis (scarring), liver failure, liver cancer and death.



Info: CDC.gov image: www.whatsthe damnreference.com

Viral Threat: Hantavirus

- Hantavirus pulmonary syndrome (HPS) is a deadly disease transmitted by infected rodents through urine, droppings, or saliva.
- Humans can contract the disease when they breathe in aerosolized virus.



NISUS
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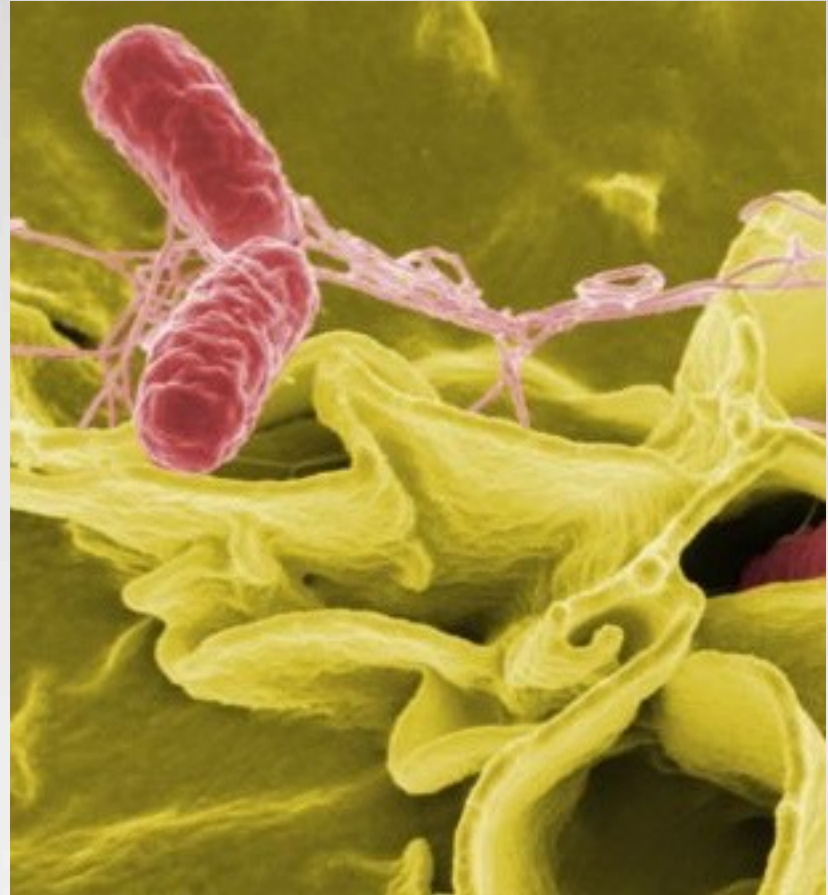
Bacterial Threat: **Salmonella**

1.35 million cases
reported annually

26,500 hospitalizations

400+ persons die each
year

Most common cause of
food poisoning



Info CDC.gov Image; www.salmonellablog.com

Bacterial Threat: **Escherichia coli**

70,000 *E. coli* (O157) infections annually.

E. coli cannot be detected by sight, taste or smell.



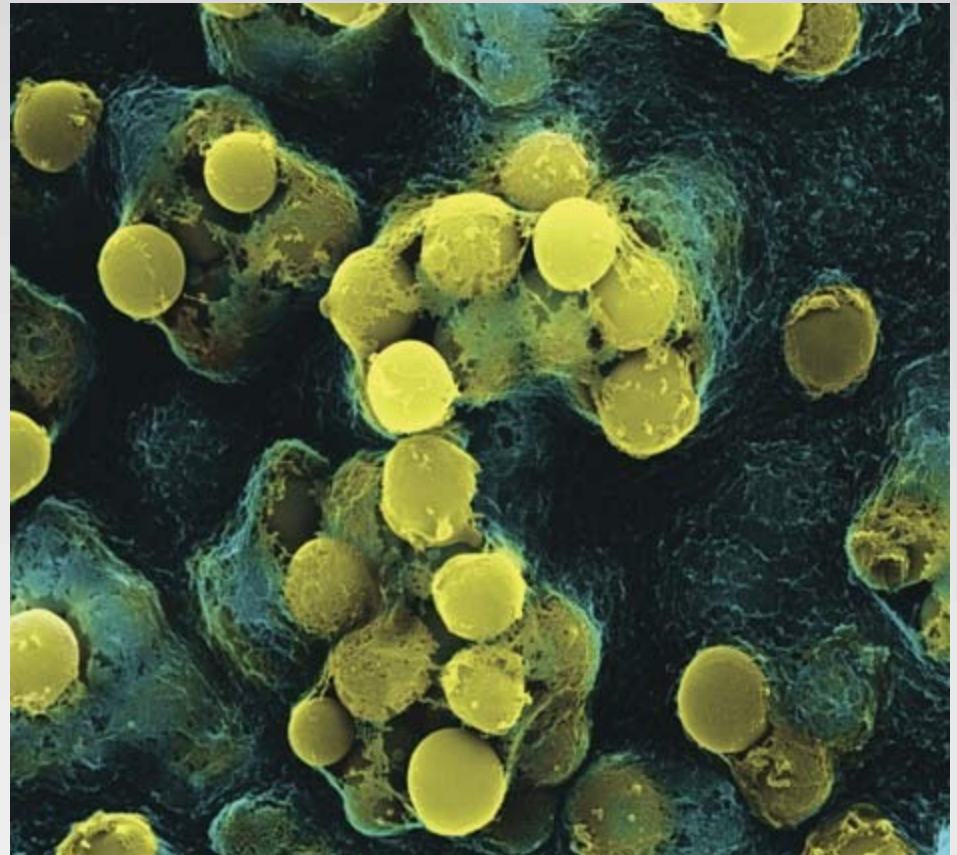
Info CDC.gov Image; www.foodsafetysupport.co.uk/escherichia

Bacterial Threat: **Streptococcus**

Group A *Streptococcus*: 10,000 cases annually resulting in more than 1,000 deaths.

STSS and necrotizing fasciitis each comprise an average of about 6%-7% of these invasive cases.

In contrast, there are **several million cases** of strep throat each year.



Info CDC.gov Image; www.dhpe.org

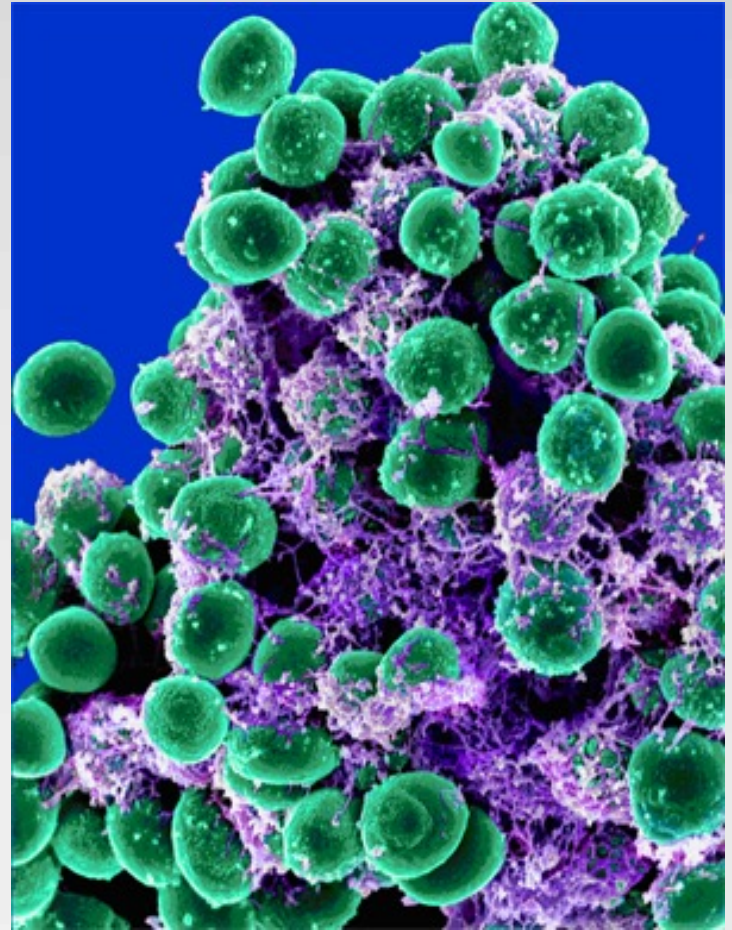
Bacterial Threat: **Staphylococcus & MRSA**

Methicillin-Resistant *Staphylococcus aureus* (MRSA), causes 94,000 life-threatening infections and nearly 19,000 deaths annually.

MRSA occurs most frequently in hospitals and healthcare facilities.

MRSA causes bloodstream infections, surgical site infections, or pneumonia.

Outbreaks have also occurred in schools.



Info CDC.gov / Image <http://www3.niaid.nih.gov>

Bacterial Threat: *Legionella pneumophila*

Legionnaires' disease

Between 8,000 and 18,000 people are hospitalized with Legionnaires disease annually.

5% to 30% of cases result in death.

The *Legionella* bacteria are found naturally in the environment, usually in warm water.



Info CDC.gov Image; <http://www.bazeny-servis.cz/podstranky/hygiena.html>

Apply Disinfectant to Hard, Non-Porous Surfaces

Nisus DSV™

- Disinfectant
- Sanitizer
- Virucide



Always read and understand the label before use. Note California restrictions.

Always...Always...

- Remember your PPE
 - ALWAYS read, understand and follow label instructions.
 - Depending on area treated and type of infection, additional PPE to guard against the pathogen may be required. Contact your state or local health department for guidelines.
- Always make sure to comply with state requirements for certification
- Check with your insurance agent in advance to make sure that your insurance policy covers disinfection work.

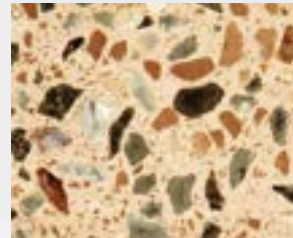
Wet All Hard, Non-Porous Surfaces

- Surfaces can be wetted using sprayer or a wet cloth.
- **Surfaces must remain wet for 10 minutes.**
- Simply let surface dry.
- Any food contact surface and well as human contact surfaces must be rinsed with clean water prior to use.

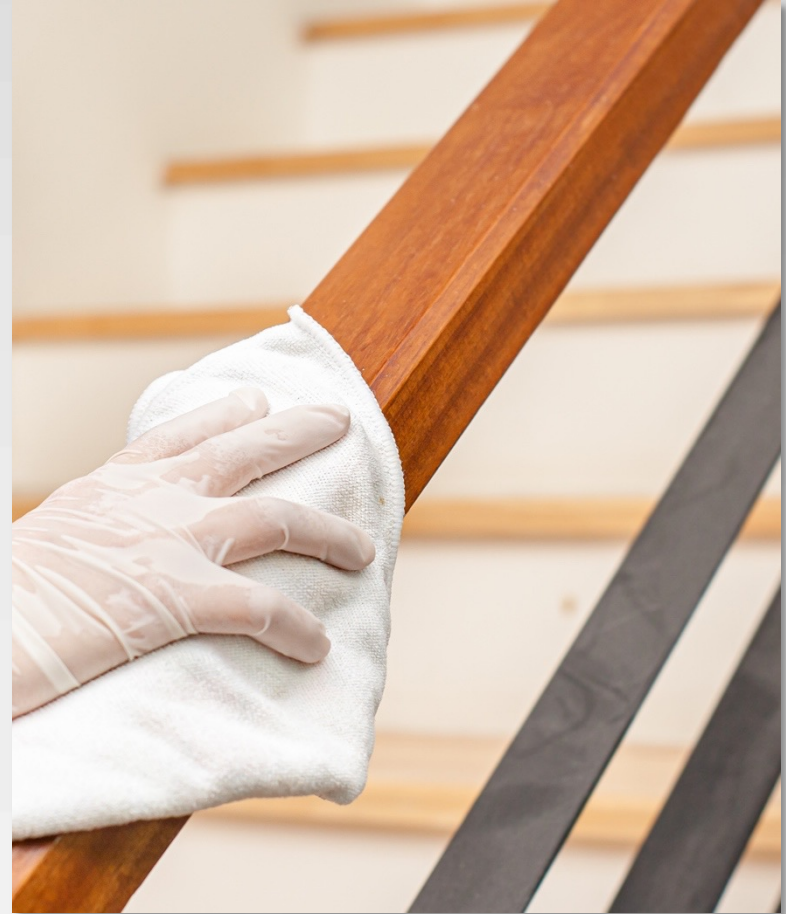


Where DSV Can Be Used

- Glass, metal, stainless steel, glazed porcelain, glazed ceramic, granite, marble, plastic, sealed limestone, sealed slate, sealed terra cotta, sealed terrazzo, chrome, vinyl



Use DSV for All Hard, Non-Porous Surfaces



Nisus DSV

Labeled for Use in Many Locations

- Restaurants, Bars, Cafeterias, Commercial Kitchens, Fast Food, Food Storage Areas, Food Prep Areas
- USDA Food Processing Plants
- Hospitals, Nursing Homes, Labs, Clinics, Day Cares
- EMS, Fire & Police Facilities and Vehicles
- Hotels, Motels, Public Restrooms, Showers and Hot Tubs, Exercise Facilities, Tanning & Nail Salons
- Schools, Gyms, Locker Rooms, Play Equipment
- Veterinary Clinics, Kennels, Zoos, & Pet Shops

Add Applying a Disinfectant Service to Existing Accounts to Reduce Bacterial and Viral Threats

Only 3 oz. of DSV makes a little over 1 gallon of solution

- Wipe down phones, switches and door-knobs.
- Spray all bathroom fixtures and hard surfaces.
- Wipe down tables and chairs (food surfaces require a freshwater rinse before use).
- Use as a mop solution to disinfect floors.
- Spray waste baskets, garbage bins & dumpsters.



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- Respiratory Syncytial Virus
- Rotavirus
- Vaccinia Virus



Resources

NPMA COVID-19 Website

<https://www.pestcontrolcoronavirus.com/>

CDC Non-Healthcare Facilities

<https://www.cdc.gov/coronavirus/2019-ncov/community/organizations/cleaning-disinfection.html>

CDC Guidelines for Households

<https://www.cdc.gov/coronavirus/2019-ncov/prepare/cleaning-disinfection.html>

OSHA Guidance for Control & Prevention

<https://www.osha.gov/SLTC/covid-19/controlprevention.html>

RIA & IICRC Guidance for Restoration Contractors

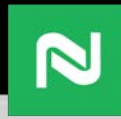
https://cdn.ymaws.com/www.restorationindustry.org/resource/resmgr/RIA_Preliminary_Report_for_R.pdf

NPMA COVID-19 Presentation

https://www.pestcontrolcoronavirus.com/default/assets/File/NPMA%20COVID-19%20Webinar%202020_03_20.pdf

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