

MAKE YOUR OWN CONTACT LENS SOLUTION

MAKE YOUR OWN CONTACT LENS SOLUTION: A PRACTICAL GUIDE FOR SAFE AND EFFECTIVE LENS CARE

MAKE YOUR OWN CONTACT LENS SOLUTION MIGHT SOUND LIKE A CONVENIENT AND COST-SAVING IDEA, ESPECIALLY WHEN YOU'RE IN A PINCH OR WANT TO AVOID THE CHEMICALS FOUND IN COMMERCIAL PRODUCTS. HOWEVER, CRAFTING YOUR OWN LENS SOLUTION REQUIRES CAREFUL ATTENTION TO HYGIENE, INGREDIENTS, AND SAFETY TO ENSURE YOUR EYES STAY HEALTHY AND COMFORTABLE. IN THIS ARTICLE, WE'LL EXPLORE EVERYTHING YOU NEED TO KNOW ABOUT MAKING YOUR OWN CONTACT LENS SOLUTION, INCLUDING THE SCIENCE BEHIND IT, SAFE DIY RECIPES, AND EXPERT TIPS TO MAINTAIN OPTIMAL LENS HYGIENE.

WHY CONSIDER MAKING YOUR OWN CONTACT LENS SOLUTION?

THE MARKET OFFERS A VARIETY OF MULTIPURPOSE CONTACT LENS SOLUTIONS DESIGNED TO CLEAN, DISINFECT, AND STORE LENSES SAFELY. YET, SOME USERS SEEK ALTERNATIVES DUE TO ALLERGIES, SENSITIVITIES TO PRESERVATIVES, OR SIMPLY TO SAVE MONEY. ADDITIONALLY, DURING SHORTAGES OR TRAVEL, COMMERCIAL SOLUTIONS MAY NOT ALWAYS BE ACCESSIBLE.

MAKING YOUR OWN CONTACT LENS SOLUTION CAN SEEM APPEALING, BUT IT'S CRUCIAL TO UNDERSTAND WHAT COMMERCIAL SOLUTIONS DO AND WHY REPLICATING THEIR EFFECTS AT HOME IS CHALLENGING. CONTACT LENS SOLUTIONS MUST EFFECTIVELY REMOVE PROTEIN DEPOSITS, KILL HARMFUL MICROORGANISMS, AND MAINTAIN LENS MOISTURE WITHOUT IRRITATING YOUR EYES.

UNDERSTANDING THE ROLE OF CONTACT LENS SOLUTION

CONTACT LENS SOLUTIONS ARE SPECIALIZED LIQUIDS FORMULATED TO:

- CLEAN: REMOVING DIRT, PROTEINS, AND DEPOSITS FROM THE LENS SURFACE.
- DISINFECT: ELIMINATING BACTERIA, FUNGI, AND OTHER PATHOGENS THAT CAN CAUSE EYE INFECTIONS.
- RINSE: WASHING AWAY DEBRIS BEFORE INSERTION.
- STORE: KEEPING LENSES MOIST AND SAFE WHEN NOT IN USE.

ANY HOMEMADE SOLUTION MUST MIMIC THESE FUNCTIONS TO BE SAFE. SIMPLY USING WATER OR SALINE WITHOUT DISINFECTION CAN LEAD TO SEVERE EYE INFECTIONS, INCLUDING KERATITIS.

IS IT SAFE TO MAKE YOUR OWN CONTACT LENS SOLUTION?

SAFETY IS THE TOP PRIORITY WHEN IT COMES TO ANYTHING INVOLVING YOUR EYES. WHILE THERE ARE HOMEMADE SALINE RINSE RECIPES THAT SOME PEOPLE USE TEMPORARILY, MAKING A FULL MULTIPURPOSE SOLUTION AT HOME IS RISKY. COMMERCIAL SOLUTIONS UNDERGO RIGOROUS TESTING AND CONTAIN PRESERVATIVES TO PREVENT BACTERIAL GROWTH.

IF YOU CHOOSE TO MAKE YOUR OWN SOLUTION, IT SHOULD ONLY BE USED AS A RINSE OR IN EMERGENCIES—NOT AS A DISINFECTANT. USING HOMEMADE SOLUTIONS WITHOUT PROPER STERILIZATION CAN EXPOSE YOUR EYES TO BACTERIA, FUNGI, OR AMOEBAS, POTENTIALLY CAUSING PAINFUL INFECTIONS.

RISKS OF HOMEMADE CONTACT LENS SOLUTIONS

- CONTAMINATION: HOME ENVIRONMENTS ARE DIFFICULT TO KEEP STERILE.
- INSUFFICIENT DISINFECTION: LACK OF ANTIMICROBIAL AGENTS.
- INCORRECT PH: SOLUTIONS THAT ARE TOO ACIDIC OR ALKALINE CAN IRRITATE EYES.
- OSMOLARITY IMBALANCE: SOLUTIONS NEED TO BE ISOTONIC TO AVOID DISCOMFORT.

FOR THESE REASONS, MANY EYE CARE PROFESSIONALS RECOMMEND USING ONLY COMMERCIALLY APPROVED CONTACT LENS SOLUTIONS.

HOW TO SAFELY MAKE YOUR OWN CONTACT LENS SOLUTION

IF YOU STILL WANT TO PREPARE A HOMEMADE CONTACT LENS SOLUTION, HERE IS A SIMPLE, SAFER RECIPE FOR A STERILE SALINE RINSE. REMEMBER, THIS SHOULD NOT REPLACE YOUR DISINFECTING SOLUTION.

DIY STERILE SALINE SOLUTION RECIPE

- **INGREDIENTS:** 1 CUP DISTILLED WATER, 1 TEASPOON NON-IODIZED SALT (PREFERABLY PURE SODIUM CHLORIDE)
- **PREPARATION:** BOIL THE DISTILLED WATER FOR AT LEAST 15 MINUTES TO STERILIZE IT.
- ALLOW THE WATER TO COOL COMPLETELY IN A COVERED, STERILE CONTAINER.
- ADD THE SALT AND STIR UNTIL FULLY DISSOLVED.
- STORE THE SOLUTION IN A CLEAN, AIRTIGHT CONTAINER THAT HAS BEEN STERILIZED WITH BOILING WATER.

THIS SALINE RINSE CAN BE USED TO RINSE LENSES AFTER CLEANING BUT DOES NOT DISINFECT THEM. IT'S ESSENTIAL TO USE PROPER DISINFECTING SOLUTIONS FOR OVERNIGHT STORAGE AND DISINFECTION.

WHY USE DISTILLED WATER?

TAP WATER CONTAINS MINERALS AND MICROORGANISMS THAT CAN CAUSE EYE INFECTIONS. DISTILLED WATER HAS HAD IMPURITIES REMOVED, MAKING IT MUCH SAFER FOR EYE-RELATED USE. HOWEVER, EVEN DISTILLED WATER ALONE ISN'T SAFE FOR STORING LENSES BECAUSE IT DOESN'T KILL BACTERIA.

ALTERNATIVE NATURAL INGREDIENTS AND THEIR USES

SOME PEOPLE LOOK INTO NATURAL INGREDIENTS AS ALTERNATIVES IN THEIR HOMEMADE SOLUTIONS. IT'S IMPORTANT TO APPROACH THESE WITH CAUTION.

COMMON NATURAL INGREDIENTS CONSIDERED:

- **SALINE (SALT WATER):** HELPS RINSE OFF DEBRIS BUT LACKS DISINFECTING PROPERTIES.
- **HYDROGEN PEROXIDE:** SOMETIMES USED IN COMMERCIAL LENS CARE PRODUCTS BUT REQUIRES NEUTRALIZATION; HOMEMADE USE IS RISKY.
- **TEA TREE OIL OR ALOE VERA:** KNOWN FOR ANTIMICROBIAL PROPERTIES BUT CAN IRRITATE THE EYE AND ARE NOT RECOMMENDED FOR LENS SOLUTIONS.

WHILE NATURAL REMEDIES MAY SOUND APPEALING, THEY OFTEN LACK THE SAFETY PROFILE NEEDED FOR EYE CARE AND CAN CAUSE IRRITATION OR DAMAGE.

TIPS FOR PROPER CONTACT LENS CARE

EVEN IF YOU USE COMMERCIAL SOLUTIONS, FOLLOWING THESE LENS CARE TIPS WILL KEEP YOUR EYES HEALTHY:

1. **WASH YOUR HANDS** THOROUGHLY BEFORE HANDLING LENSES.
2. **USE FRESH SOLUTION** EVERY TIME YOU STORE YOUR LENSES—NEVER TOP OFF OLD SOLUTION.
3. **CLEAN YOUR LENS CASE** REGULARLY WITH STERILE SOLUTION AND ALLOW IT TO AIR DRY.
4. **REPLACE YOUR LENS CASE** EVERY 3 MONTHS TO PREVENT CONTAMINATION.
5. **FOLLOW YOUR EYE CARE PROVIDER'S INSTRUCTIONS** FOR LENS WEARING AND CLEANING SCHEDULES.

WHEN TO AVOID HOMEMADE SOLUTIONS

IF YOU HAVE SENSITIVE EYES, A HISTORY OF EYE INFECTIONS, OR USE EXTENDED-WEAR LENSES, IT'S BEST TO AVOID HOMEMADE SOLUTIONS ALTOGETHER. COMMERCIAL PRODUCTS ARE SPECIFICALLY FORMULATED AND TESTED TO MINIMIZE RISKS.

WHEN EMERGENCY DIY SOLUTIONS MIGHT HELP

IN EMERGENCIES—SAY YOU RUN OUT OF YOUR SOLUTION AND CAN'T GET TO A STORE—USING A STERILE HOMEMADE SALINE RINSE CAN TEMPORARILY RINSE LENSES TO RELIEVE DISCOMFORT. BUT THIS SHOULD BE A LAST RESORT AND LENSES SHOULD BE DISINFECTED WITH PROPER SOLUTIONS AS SOON AS POSSIBLE.

EMERGENCY SALINE RINSE STEPS:

- PREPARE STERILE SALINE AS DESCRIBED ABOVE.
- RINSE YOUR LENSES THOROUGHLY BEFORE PUTTING THEM IN YOUR EYES.
- DO NOT STORE LENSES OVERNIGHT IN THIS SOLUTION.
- PURCHASE COMMERCIAL DISINFECTING SOLUTION IMMEDIATELY.

FINAL THOUGHTS ON MAKING YOUR OWN CONTACT LENS SOLUTION

WHILE THE IDEA TO MAKE YOUR OWN CONTACT LENS SOLUTION CAN BE TEMPTING AND EVEN PRACTICAL IN CERTAIN SITUATIONS, IT'S IMPORTANT TO PRIORITIZE EYE HEALTH AND SAFETY. PROPER LENS CARE INVOLVES MORE THAN JUST CLEANING;

IT REQUIRES EFFECTIVE DISINFECTION AND STERILE STORAGE, WHICH COMMERCIAL SOLUTIONS ARE DESIGNED TO PROVIDE.

IF YOU DECIDE TO EXPERIMENT WITH HOMEMADE SOLUTIONS, ALWAYS USE DISTILLED WATER, MAINTAIN STRICT HYGIENE, AND NEVER SUBSTITUTE HOMEMADE SALINE FOR DISINFECTING SOLUTIONS. WHEN IN DOUBT, CONSULT YOUR EYE CARE PROFESSIONAL TO ENSURE YOUR LENSES—AND EYES—STAY SAFE AND COMFORTABLE. AFTER ALL, YOUR VISION DESERVES THE BEST CARE POSSIBLE.

FREQUENTLY ASKED QUESTIONS

IS IT SAFE TO MAKE YOUR OWN CONTACT LENS SOLUTION AT HOME?

MAKING YOUR OWN CONTACT LENS SOLUTION AT HOME IS GENERALLY NOT RECOMMENDED BECAUSE HOMEMADE SOLUTIONS MAY NOT EFFECTIVELY DISINFECT LENSES AND CAN LEAD TO EYE INFECTIONS OR IRRITATION.

WHAT INGREDIENTS ARE COMMONLY USED IN HOMEMADE CONTACT LENS SOLUTIONS?

SOME HOMEMADE RECIPES INCLUDE SALINE (SALT WATER) AND BAKING SODA, BUT THESE DO NOT PROVIDE PROPER STERILIZATION OR DISINFECTION REQUIRED FOR SAFE LENS USE.

CAN HOMEMADE CONTACT LENS SOLUTION KILL HARMFUL BACTERIA?

NO, HOMEMADE SOLUTIONS TYPICALLY LACK THE NECESSARY DISINFECTANTS TO KILL BACTERIA, FUNGI, OR OTHER PATHOGENS, WHICH CAN CAUSE SERIOUS EYE INFECTIONS.

WHAT ARE THE RISKS OF USING HOMEMADE CONTACT LENS SOLUTIONS?

USING HOMEMADE SOLUTIONS CAN RESULT IN EYE IRRITATION, ALLERGIC REACTIONS, BACTERIAL KERATITIS, AND POTENTIALLY PERMANENT EYE DAMAGE DUE TO INADEQUATE CLEANING AND DISINFECTION.

ARE THERE ANY SAFE DIY ALTERNATIVES FOR CONTACT LENS CLEANING?

THE SAFEST OPTION IS TO USE COMMERCIALLY APPROVED CONTACT LENS SOLUTIONS; NO DIY ALTERNATIVES ARE RECOMMENDED DUE TO SAFETY CONCERNS.

HOW SHOULD I PROPERLY CLEAN AND DISINFECT MY CONTACT LENSES?

USE A STERILE, MULTIPURPOSE COMMERCIAL CONTACT LENS SOLUTION TO CLEAN, RINSE, AND DISINFECT LENSES ACCORDING TO THE PRODUCT INSTRUCTIONS AND YOUR EYE CARE PROFESSIONAL'S ADVICE.

WHAT SHOULD I DO IF I ACCIDENTALLY USE HOMEMADE CONTACT LENS SOLUTION?

REMOVE YOUR LENSES IMMEDIATELY, RINSE YOUR EYES WITH STERILE SALINE OR CLEAN WATER, AND CONSULT AN EYE CARE PROFESSIONAL PROMPTLY TO PREVENT INFECTION OR COMPLICATIONS.

ADDITIONAL RESOURCES

[MAKE YOUR OWN CONTACT LENS SOLUTION: AN INVESTIGATIVE REVIEW ON SAFETY AND EFFECTIVENESS](#)

MAKE YOUR OWN CONTACT LENS SOLUTION HAS BECOME A TOPIC OF INTEREST AMONG CONTACT LENS WEARERS SEEKING COST-EFFECTIVE AND CUSTOMIZABLE ALTERNATIVES TO COMMERCIAL PRODUCTS. THE IDEA OF CRAFTING A HOMEMADE DISINFECTING OR CLEANING SOLUTION APPEALS TO SOME DUE TO BUDGET CONSTRAINTS, PERCEIVED CONTROL OVER INGREDIENTS, OR EMERGENCY SITUATIONS WHERE STORE-BOUGHT SOLUTIONS ARE UNAVAILABLE. HOWEVER, THE QUESTION REMAINS: IS IT SAFE AND

EFFECTIVE TO MAKE YOUR OWN CONTACT LENS SOLUTION? THIS ARTICLE DELVES INTO THE SCIENTIFIC, MEDICAL, AND PRACTICAL ASPECTS OF DIY CONTACT LENS SOLUTIONS, PROVIDING AN ANALYTICAL PERSPECTIVE THAT WEIGHS THE BENEFITS AND RISKS INVOLVED.

THE ROLE OF CONTACT LENS SOLUTIONS

CONTACT LENS SOLUTIONS SERVE CRITICAL FUNCTIONS FOR EYE HEALTH AND LENS MAINTENANCE. PRIMARILY, THESE SOLUTIONS DISINFECT LENSES BY KILLING OR INHIBITING MICROBIAL GROWTH, REMOVE PROTEIN AND LIPID DEPOSITS, AND PROVIDE LUBRICATION TO ENSURE COMFORTABLE WEAR. COMMERCIALLY AVAILABLE SOLUTIONS ARE RIGOROUSLY TESTED AND FORMULATED WITH PRECISE CONCENTRATIONS OF DISINFECTANTS, BUFFERING AGENTS, LUBRICANTS, AND PRESERVATIVES. THEIR MULTI-PURPOSE FORMULATIONS ARE DESIGNED TO MEET REGULATORY STANDARDS FOR SAFETY AND EFFICACY.

WHEN CONSIDERING THE OPTION TO MAKE YOUR OWN CONTACT LENS SOLUTION, IT IS VITAL TO UNDERSTAND THE COMPLEX CHEMISTRY AND MICROBIOLOGY INVOLVED. ANY HOMEMADE SOLUTION MUST NOT ONLY CLEAN AND DISINFECT BUT ALSO MAINTAIN THE ISOTONICITY AND PH BALANCE COMPATIBLE WITH THE EYE'S NATURAL ENVIRONMENT TO AVOID IRRITATION OR DAMAGE.

TYPICAL INGREDIENTS IN COMMERCIAL CONTACT LENS SOLUTIONS

MOST COMMERCIAL MULTIPURPOSE CONTACT LENS SOLUTIONS CONTAIN:

- **DISINFECTANTS** SUCH AS POLYHEXAMETHYLENE BIGUANIDE (PHMB), POLYQUATERNIUM-1, OR HYDROGEN PEROXIDE, WHICH ELIMINATE BACTERIA, FUNGI, AND OTHER PATHOGENS.
- **BUFFERING AGENTS** TO MAINTAIN A PH CLOSE TO THAT OF NATURAL TEARS (AROUND 7.0 TO 7.4).
- **SALINE COMPONENTS** TO ENSURE ISOTONICITY, PREVENTING LENS WARPING OR EYE DISCOMFORT.
- **LUBRICANTS** LIKE HYALURONIC ACID OR POLYMERS TO ENHANCE COMFORT.
- **PRESERVATIVES** TO EXTEND SHELF LIFE AND PREVENT CONTAMINATION.

REPLICATING THIS PRECISE BALANCE AT HOME IS CHALLENGING AND REQUIRES ACCESS TO PHARMACEUTICAL-GRADE CHEMICALS AND STERILE CONDITIONS.

INVESTIGATING DIY CONTACT LENS SOLUTIONS

THE INTERNET IS REplete WITH RECIPES AND GUIDES ON HOW TO MAKE YOUR OWN CONTACT LENS SOLUTION, OFTEN SUGGESTING INGREDIENTS LIKE BOILED WATER, SALT, BAKING SODA, OR HYDROGEN PEROXIDE. WHILE THESE MAY APPEAR SIMPLE, THE RISKS ASSOCIATED WITH SUCH HOMEMADE CONCOCTIONS ARE SIGNIFICANT.

COMMON HOMEMADE SOLUTION RECIPES

- **SALINE SOLUTION:** MIXING DISTILLED WATER WITH NON-IODIZED SALT TO MIMIC THE SALT CONCENTRATION OF TEARS.
- **BAKING SODA AND SALT SOLUTION:** ADDING BAKING SODA TO ADJUST PH ALONG WITH SALT FOR ISOTONICITY.

- **HYDROGEN PEROXIDE-BASED SOLUTION:** DILUTING HYDROGEN PEROXIDE TO DISINFECT LENSES.

ALTHOUGH SALINE SOLUTIONS CAN BE ACCEPTABLE FOR RINSING LENSES, THEY LACK DISINFECTING PROPERTIES. WITHOUT PROPER DISINFECTION, LENSES REMAIN A BREEDING GROUND FOR HARMFUL MICROORGANISMS.

SAFETY CONCERNS AND MEDICAL RISKS

IMPROPERLY PREPARED OR CONTAMINATED HOMEMADE SOLUTIONS CAN LEAD TO:

- **MICROBIAL KERATITIS:** A SERIOUS INFECTION OF THE CORNEA CAUSED BY BACTERIA OR FUNGI, WHICH CAN RESULT IN VISION LOSS.
- **CORNEAL ULCERS:** OPEN SORES ON THE CORNEA THAT CAUSE PAIN, REDNESS, AND IMPAIRED VISION.
- **EYE IRRITATION AND ALLERGIC REACTIONS:** DUE TO INCORRECT pH OR TOXIC INGREDIENTS.
- **LENS DAMAGE:** INAPPROPRIATE TONICITY CAN WARP OR DEGRADE LENS MATERIAL, AFFECTING FIT AND COMFORT.

THE U.S. FOOD AND DRUG ADMINISTRATION (FDA) AND OPHTHALMOLOGISTS STRONGLY ADVISE AGAINST USING HOMEMADE SOLUTIONS FOR CONTACT LENSES.

COMPARING HOMEMADE SOLUTIONS WITH COMMERCIAL ALTERNATIVES

EFFECTIVENESS

MULTIPLE STUDIES HAVE SHOWN THAT COMMERCIAL MULTIPURPOSE SOLUTIONS EFFECTIVELY ELIMINATE A WIDE RANGE OF PATHOGENS, INCLUDING *PSEUDOMONAS AERUGINOSA* AND *ACANTHAMOEBA*, WHICH ARE COMMON CULPRITS IN CONTACT LENS-RELATED INFECTIONS. HOMEMADE SALINE OR SALTWATER SOLUTIONS LACK THESE ANTIMICROBIAL AGENTS AND DO NOT PROVIDE ADEQUATE DISINFECTION.

CONVENIENCE AND COST

WHILE MAKING YOUR OWN CONTACT LENS SOLUTION MAY SEEM CHEAPER UPFRONT, THE POTENTIAL COSTS OF EYE INFECTIONS AND COMPLICATIONS FAR OUTWEIGH SAVINGS. ADDITIONALLY, COMMERCIAL SOLUTIONS ARE WIDELY AVAILABLE AND FORMULATED TO ENSURE USER SAFETY WITHOUT REQUIRING SPECIAL KNOWLEDGE OR EQUIPMENT.

CUSTOMIZATION

ONE APPEAL OF DIY SOLUTIONS IS THE ABILITY TO CUSTOMIZE INGREDIENTS, ESPECIALLY FOR USERS WITH ALLERGIES OR SENSITIVITIES TO PRESERVATIVES. HOWEVER, PRESERVATIVE-FREE COMMERCIAL SOLUTIONS AND HYDROGEN PEROXIDE-BASED SYSTEMS EXIST TO ACCOMMODATE THESE NEEDS SAFELY.

When Homemade Solutions Might Be Appropriate

In extreme emergencies where commercial solutions are unavailable, rinsing lenses with sterile saline or freshly boiled (then cooled) water might be a temporary measure to remove debris. However, this is not a substitute for proper disinfection and should be followed by professional care as soon as possible.

Ophthalmologists recommend against using tap water, homemade saline, or any unapproved solutions for lens storage or extended wear due to contamination risks.

Hydrogen Peroxide Systems: A Controlled DIY Alternative?

Some contact lens users utilize hydrogen peroxide cleaning kits that include a neutralizing step to convert peroxide into water and oxygen, making the solution safe for lenses and eyes. Although this is a form of “home” preparation, it is a regulated and tested system with precise instructions.

Attempting to replicate this system independently without neutralization is hazardous, as undiluted hydrogen peroxide can cause severe eye burns.

Guidelines for Contact Lens Care

Proper lens care remains essential for healthy vision:

1. Always use commercially approved multipurpose or hydrogen peroxide-based solutions.
2. Never use tap water or homemade solutions for cleaning or storing lenses.
3. Follow lens replacement schedules and hygiene protocols.
4. Consult eye care professionals for any irritation or discomfort.

Maintaining this routine minimizes the risk of infections and ensures optimal lens performance.

Summary of Pros and Cons of Making Your Own Contact Lens Solution

Pros	Cons
Potential cost savings	Lack of proven antimicrobial efficacy
Control over ingredients	Risk of contamination and eye infections
Emergency availability	Possible lens damage and discomfort
Customization for sensitivities (in theory)	Absence of regulatory oversight and quality control

While the theoretical benefits may appear attractive, the health risks and lack of scientific backing strongly caution against this practice.

The intricacies involved in ensuring sterility, proper pH, isotonicity, and antimicrobial activity mean that commercially produced solutions remain the gold standard for contact lens maintenance. Eye health

PROFESSIONALS CONTINUE TO ADVOCATE FOR SAFE PRACTICES THAT RELY ON APPROVED PRODUCTS TO PREVENT AVOIDABLE VISION-THREATENING COMPLICATIONS.

IN NAVIGATING THE BALANCE BETWEEN COST, CONVENIENCE, AND SAFETY, CONTACT LENS WEARERS ARE BEST SERVED BY ADHERING TO ESTABLISHED GUIDELINES AND CONSULTING THEIR OPTOMETRISTS FOR PERSONALIZED RECOMMENDATIONS. THE ALLURE OF MAKING YOUR OWN CONTACT LENS SOLUTION IS UNDERSTANDABLE BUT ULTIMATELY OVERSHADOWED BY THE PARAMOUNT IMPORTANCE OF EYE SAFETY AND INFECTION PREVENTION.

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