




**Disinfection**  
of measuring prisms and contact glasses

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Tradition and Innovation

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## Background



**i** Please note, and inform all personnel who may be involved, that the use of any Goldmann Tonometer Measuring Prism or Contact Glass which displays any of the following signs of damage should be immediately discarded.

**Failure to do so may result in damage to the eye of the patient.**

- **Scratches on the contact surface (Patient's side)**
- **Sharp edges on the contact surface (Patient's side)**
- **Cracks**
- **Leaks in the housing/prism**

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## How can I check tonometer measuring prisms?



We strongly recommend a constant examination of the measuring prisms and/or contact lenses through the microscope of the slit lamp prior to each usage.



**If damage is observed, or even suspected, the prism or the contact lens should immediately be discarded.**

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## How can I see whether the prism is defective or not?



**You have to check them very thoroughly.**

- The most important part to check is the surface of the prism/lens which will be in contact with the patients cornea.
- Make sure, that the housing is not leaky.

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## How can I see whether it's defective or not?



The surface of the prism which is in contact with the human eye is destroyed.

### Why?

- Wrong disinfectant
- Use of alcohol or acetone!



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## How can I see whether it's defective or not?



The protective glass of the prism is broken off.

### Why?

- Excess pressure inside the housing.
- Great differences in temperature, mostly trough use of alcohol.



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## How can I see whether it's defective or not?



The conical part of the prism shows cracks. The inner parts are defective.

### Why?

- **Mechanical effect from outside.**
- **Age of the prism.**  
(In this specific case the prism is far too old)



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## How can I see whether it's defective or not?



The prism wall is damaged resulting in a leaky prism.

### Why?

- **Improper handling of the prism.**  
(Refer to the instructions for use)



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## Most common problems



- Scratches on contact surface
- Sharp edges on contact surface
- Damaged edges
- Cracks
- Leaks
- Defective filling
- Contamination
- Age of the prism



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## What can I do, if I recognize such a damage?



- I have to mention the damage to the user and explain him the reason.
- I have to inform the user about the possibilities to avoid such a damage.
- I have to mark the defective measuring prisms and/or contact glasses.
- I have to describe the damage and the effects for the patient in writing.




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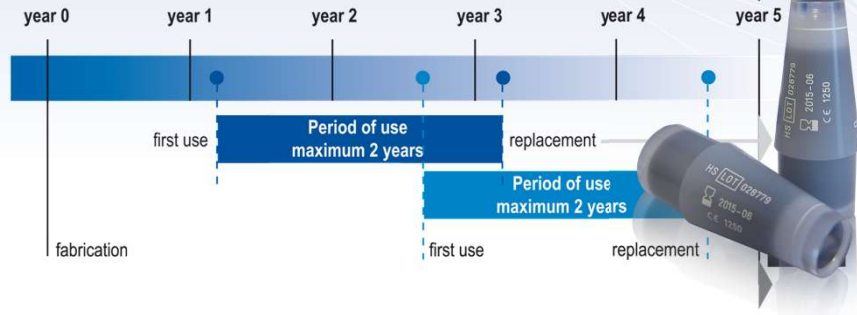
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## Life span of Haag-Streit measuring prisms



Though having a life span of 5 years, the prism should have a maximum **period of use** of **two years!**




year 0      year 1      year 2      year 3      year 4      year 5


fabrication      first use      replacement      first use      replacement

Period of use maximum 2 years

Period of use maximum 2 years



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## Possibilities to avoid such damages



- Use of only recommended disinfectants (see our list)
- Proper handling according to the instructions for use and our restrictions



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## Disinfection of glasses and tonometer prisms



The following slide shows a list of those disinfectants which HAAG-STREIT have tested & approved.



**We do not accept responsibility for damage caused by the use of other disinfectants.**

The disinfection list can be found at:

[www.haag-streit.com](http://www.haag-streit.com)

Disinfection List Table (Page 2 of 2):

| Disinfectant          | Concentration | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|-----------------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sodium Hypochlorite   | 0.5%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sodium Hydroxide      | 2%            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Hydrogen Peroxide     | 3%            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Acrylan               | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Almyrol               | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Cidex plus            | 0.05%         | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Dakin's Solution      | 0.5%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Deconex 53 Instrument | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Deconex 53 Plus       | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Endo Septol FF        | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Gigasept AF           | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Gigasept AF forte     | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Gigasept FF NEW       | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Hibitane              | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Jiaen 6% "Yoshida"    | 6%            | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Mucocit-T             | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| NU-CIDEX              | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| PeraSafe              | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Peraxylens            | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Perfektan TB          | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sekusept Activ        | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sekusept Activ NEW    | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sekusept forte S      | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sekusept PLUS         | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Stabimed              | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sterihyde L           | 0.1%          | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

## List of recommended disinfectants



HAAG-STREIT recommends the following disinfectants for use with the measuring prisms:

Sodium Hypochlorite  
Sodium Hydroxide  
Hydrogen Peroxide  
Acrylan  
Almyrol®  
Cidex® plus  
Dakin's Solution  
Deconex 53 Instrument  
Deconex 53 Plus  
Endo Septol FF  
Gigasept® AF  
Gigasept® AF forte  
Gigasept® FF NEW

Hibitane®  
Jiaen 6% "Yoshida"  
Mucocit®-T  
NU-CIDEX®  
PeraSafe®  
Peraxylens®  
Perfektan® TB  
Sekusept® Activ  
Sekusept® Activ NEW  
Sekusept® forte S  
Sekusept® PLUS  
Stabimed®  
Sterihyde® L

Find out more about the concentration in the disinfectant list at:  
[www.haag-streit.com](http://www.haag-streit.com)

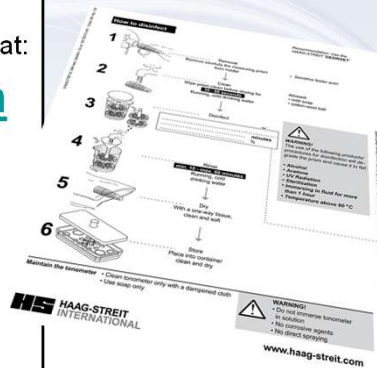


# How to disinfect Goldman tonometer prisms



HAAG-STREIT recommends the use of a disinfecting process sheet which is available in seven languages at:

[www.haag-streit.com](http://www.haag-streit.com)



# Thank You!

