Critical questions regarding prisms

- How many measuring prisms do you have in your department?
- How old are they?
- What condition are they in?
- How often are they checked or audited?
- How often are they replaced?
- Do you “use them, till you loose them – then replace them”?

Most common problems regarding prisms

- Scratches on contact surface
- Sharp edges on contact surface
- Damaged edges
- Cracks
- Leaks
- Defective filling
- Contamination
- Age of the prism
Most common problems regarding prisms

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

Why?
- Wrong disinfectant
- Use of alcohol or acetone!

Most common problems regarding prisms

- The protective glass of the prism is broken off.

Why?
- Build of pressure inside the housing.
- Great differences in temperature mostly through use of alcohol.
Most common problems regarding prisms

The conical part of the prism is full of cracks. The filling is defective.

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

Most common problems regarding prisms

The prism filling is damaged resulting in a leaky prism.

Why?
- Improper handling of the prism.
 (Refer to the instructions for use)
Life span of Haag-Streit applanation tonometer prisms

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

Disinfection of Goldmann tonometer prisms – current practice

Since mid of 2010 the HAAG-STREIT Measuring Prisms are delivered in a box containing the instructions for use with general information, a table of disinfectants and a process sheet on how to disinfect the prism.

The latest table of disinfectants as well as the process sheet are available at: www.haag-streit.com
Disinfection of Goldmann 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

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
How to disinfect Goldmann tonometer prisms

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

www.haag-streit.com

Issues regarding reusable measuring prisms?

• In many countries strict guidelines regarding disinfection procedures of reusable measuring prisms have been issued by the government.

• These guidelines are difficult to adhere to in routine practice due to the procedures involved and time needed for effective disinfection.

• As discussed, general use and the disinfection process slowly destroys prisms by producing ‘tension rip’ damage, making them liable to provide inaccurate readings, along with the possibility of infecting and damaging the patients’ eyes.
Checking service offered by “company name”

“company name” is now offering a new FREE Goldmann prism checking service:

- Our fully qualified service engineers will check your prisms and indicate which ones need to be replaced.
- This FREE service is available to all “company name” customers.

Tonosafe – disposable prisms

HAAG-STREIT developed Tonosafe, a low cost disposable prism. Tonosafe was specifically designed to:

- Eliminate issues relating to the disinfection of reusable measuring prisms
- Reduce the risk of cross infection when performing contact tonometry
“We conclude that disposable prism tonometry provides a reliable, effective, and safe alternative to Goldmann tonometry with the advantages of eliminating the need for chemical disinfection and eliminating the risk of cross infection”

S. M Salvi et al (2005), Eye

“Tonosafe is reliable!”

K. Kontogiorgi et al

“To completely eradicate the risk of transmission of prion protein (CJD), disposable prism tips should be used”

S. Z Amin et al (2003), Br J Ophthalmology (p1361)

“IOP measurements with Tonosafe are not so different from that with standard prisms, and Tonosafe is useful for preventing infection”


“Tonosafe prevents cross infection!”
Tonosafe – clinical research

“The Tonosafe disposable tonometer takes accurate IOP measurements, even at elevated pressure levels.”

“There is a high level of correlation between the Goldmann tonometer prism and that of the Tonosafe disposable prisms.”


Tonosafe is accurate!

Tonosafe – simple to use
Tonosafe – Quiz

Question 1
Tonosafe eliminates the risk of cross infection by being?

1. Reusable
2. Single Use - Disposable
3. Put into quarantine

Answer = 2. Single Use - Disposable

Question 2
Research has shown that Tonosafe can be used for?

1. Making custom designed jewellery
2. Screening only
3. Both screening and routine clinical work

Answer = 3. Both screening and routine clinical work
Tonosafe – Quiz

Question 3

Tonosafe is the perfect disposable tonometry solution by being?

1. Simple to use, completely safe, consistently reliable and accurate
2. Supplied with its own cleaning solution
3. Able to dematerialise after use

Answer = 1. Simple to use, completely safe, consistently reliable and accurate

Thank You!