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# Amico Yasna Pars

## Ophthalmology Newsletter

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## Perfection is not a destination; it's a never-ending process...

Vince Lombardi says: Perfection is not attainable. But if we chase perfection, we can catch excellence.

Dear Valued Partner

The page turned, 1394 to 1395.

Once again we really do appreciate having you by side, helping us to improve our missions, visions and core values. Yes, core values; values which are based on our eagerness to the road of perfection, as the main factor of growth. Although the road is a kind of infinite way but no doubt it is a gate to excellence...Yes...excellence...the essence of excellence... we are questing for this through the road.

By involving this essence in our business, we are adding golden bricks of experience to build our castle of perfection in business.

The story of our success is the result of the drive, passion and marketing powers along with perfection with work. As before, we are on our evolutionary road which will make us to provide our loyal customers with all the newest technologies of the most trusted suppliers all around the world.

Fortunately, this year, the story continues...

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# iDesign

Advanced WaveScan Studio



The **VISX (Star S4 IR)** Advanced CustomVue procedure is now **Powered by iDesign**, giving you a truly innovative approach to measure refractive errors and treatment planning.

## First Things First. Let's Start With Excellence

Proudly, Amico Yasna Pars announces the arrival of OFAC license for Abbott Medical Optics refractive line, VISX STAR S4 IR Excimer Laser System powered by iDesign WaveScan Studio.

The VISX STAR S4 IR is one of the most advanced systems on the market today. The VISX STAR S4 IR can be used in combination with VISX CustomVue™ to address the unique imperfections of each individual's vision. The Advanced CustomVue procedure is now powered by iDesign, giving the surgeon a truly innovative approach to measure refractive errors and treatment planning. Due to its unique and greatest outcomes for the patients all over the world, once again, the professional surgeons can provide their patients with the best treatments and vision correction throughout its outstanding proven features.

# iDesign

## Promises Truly Personalized Vision Correction

The iDesign System is an ophthalmic diagnostic device that measures the refractive error and wavefront aberrations of the human eye using a High-definition Hartmann-Shack wavefront sensor (five times higher resolution than recent WaveScan system). The iDesign System provides the surgeon with many complex details regarding the eye's optical imperfections including:

### 1. Auto-Refraction

### 2. Wavefront Aberrometry

- High-definition Hartmann-Shack wavefront sensor (five times higher resolution than WaveScan system)
- Fourier reconstruction algorithms using up to 1257 micro-refractions over a 7 mm diameter wavefront

### 3. Corneal Topography

- Anterior Corneal Topography including Zonal reconstruction and 8th order Zernike reconstruction

### 4. Keratometry

### 5. Pupillometry

- Measures pupil diameter under controlled scotopic and photopic lighting conditions

### 6. Iris Registration

- To compensate for cyclotorsion

## VISX Star S4 IR

## Why VISX STAR S4 IR ?

- The widest FDA approval of any laser system worldwide providing superior surgical option for more patients than any other laser platform
- The highest level of resolution of wavefront refractive error due to the use of Fourier algorithms
- Active 3-D eye tracking at 60Hz (3-10 times faster than Laser rate) compensates for intraoperative eye movement in all dimensions.
- Iris Registration (IR) - the only laser platform that centers and aligns the treatment while compensating for eye cyclorotation and physiologic pupil migration even after flap lifting.
- The only system that compensates for pupil migration during physiologic pupil dilation resulting in more accurate laser

pulse placement

- Variable Spot Scanning (VSS): The platform that delivers variable beam sizes from as small as 0.65 mm up to 6.5 mm scanned over the treatment area thereby conserving tissue, optimizing treatment times, reducing corneal drying intra-operatively and reducing adverse thermal load to the delicate corneal tissue
- Variable Repetition Rate (VRR): VRR delivers treatment at varying repetition rates, optimizing treatment time and reducing the adverse effects of thermal loading of the delicate corneal tissue
- Conservative tissue removal which is surgeon selectable leading to good residual corneal strength and less risk for corneal ectasia / weakening



# WhiteStar Signature PRO

## Innovation Always Follows Professionals...

When you have options, you have the freedom to succeed. The WHITESTAR SIGNATURE PRO Phacoemulsification System is purposely engineered to give you exceptional versatility in the surgical arena.

It empowers you to optimize your procedures and productivity — all while enjoying a surgical experience that's tailored to the way you work.

IT'S YOUR CHOICE — on-demand fluidics technology, peristaltic, venturi or a combination of both pumps, allows immediate integration into your practice OUTSTANDING performance and low-energy lens extraction delivered by combining sophisticated fluidics and efficient elliptical ultrasound TOTAL PRACTICE OPTIMIZATION including a state-of-the-art mobile analytics app.

### FUSION® FLUIDICS TECHNOLOGY WITH AUTOMATIC OCCLUSION SENSING

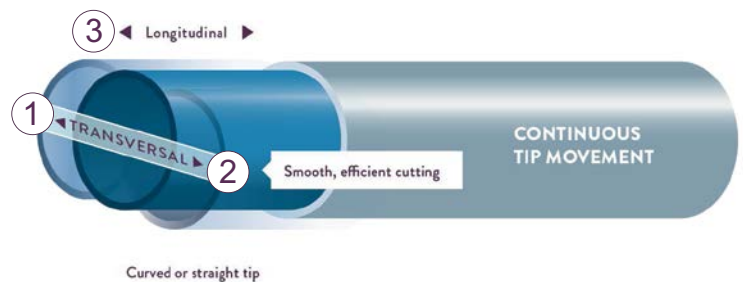
- Preserves intraocular pressure (IOP) throughout extraction
- Continuously monitors IOP and proactively adjusts to mitigate occlusion breaks and reduce post-occlusion surge
- Anticipates pressure changes and proactively adjusts settings to maintain IOP
- Adapts within 20 milliseconds to maintain stability
- Preserves optimal IOP/pressure — even at higher vacuum and flow settings
- Compatible with both peristaltic and venturi settings



### ELLIPS® FX ULTRASOUND

- Uses a continuous, elliptical pattern for smooth, efficient cutting
- Reduces effective phaco time,<sup>(2)</sup> enabling true low-energy lens removal<sup>(1)</sup>
- Minimal ultrasound time to reduce risk of thermal damage<sup>(3)</sup>
- High performance with minimal clogging<sup>(2)</sup>
- Smooth cutting, even in hard lenses

The ELLIPS® FX Handpiece combines the benefits of transversal and longitudinal movement for easy and effective lens emulsification. CONCENTRATES HEAT AT THE HUB, keeping it away from the incision.



### ADVANCED LINEAR FOOTPEDAL

- Four-button, wireless footpedal built for ease of use, responsiveness and control
- Ergonomically designed for comfort and reduced operator stress
- Saves preferred settings for multiple-surgeon environments, surgical mode and immediate response

**Cataract Products****Tecnis Symphony****THE EVALUATION OF A NEW PRESBYOPIA-CORRECTING IOL**

In a crowded market, evaluating a lens' optical and clinical performance and matching them to patient needs are keys to success.

**Article****HIGH PATIENT SATISFACTION**

**The Symphony IOL provides sharp vision from distance to near.**

By Aylin Kiliç, MD



Today's patients expect almost perfect vision after cataract surgery. They want to see near without glasses, and they desire comfortable vision without any complications such as halos and glare.

Because the Symphony IOL (Abbott Medical Optics) is pupil independent, quality of vision does not change as the pupil expands in dark conditions. For those who drive at night or enjoy hobbies typically done in poor light, pupil independence is important.

Although multifocal IOLs continue to undergo modifications to enhance distance and near vision, unwanted side effects are still problematic. The Symphony IOL does not cause any disturbance in distance vision and can compensate for chromatic aberrations between the shorter blue and longer red wavelengths. This is because the lens does not have multiple focal points, as other multifocal IOLs do. When light approaches an echellette grating surface, as on the Symphony's optic, it is diffracted into specific directions that vary according to step height and area. The design of the Symphony, therefore, provides an extended range of vision to the patient without producing glare and halos.

**NO DISTURBANCES**

- The Symphony IOL can compensate for chromatic aberrations between the shorter blue and longer red wavelengths.

In my limited experience with the IOL, which includes four eyes to date, distance BCVA always remains unchanged or improved after surgery. At the final follow-up visits, distance visual acuity is 20/20 or better in the majority of eyes. Additionally, there have been no significant complaints of visual disturbances.

Unlike multifocal IOLs that create a fixed number of focal points, the Symphony has provided my patients with continuous sharp vision from distance to near. The lens has provided improved contrast sensitivity and sharper distance vision compared with other pupil-dependent multifocal IOLs that I have used. I plan to analyze a larger series of patients with longer follow-up.

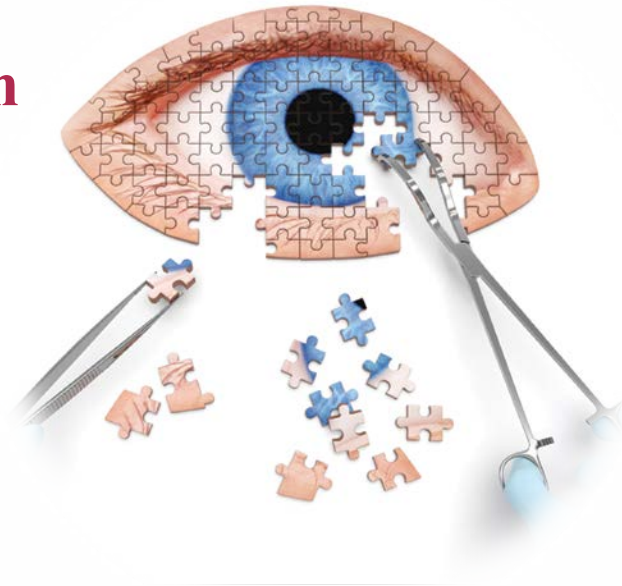
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- Financial disclosure: None

# Importance of High Quality Instruments in Operation Room

A surgeon performing a surgical procedure should be able to assume that the instruments used are safe and reliable – particularly if they are new. So, as a matter of fact an instrument which is handy and is made of high quality materials would be inevitable in operation rooms during a surgery.

Stainless steel instruments may appear to be of uniform quality when they are new. However, there are various grades of quality, ranging from high quality and premium to operating room and floor grade. Some instruments appearing to be stainless steel are of such poor quality that they are sold as single-use instruments. Quality is determined by the manufacturer as instruments represent a substantial portion of the budget of a surgical suite, it is important to be knowledgeable about buying and selecting products with the desired quality. Many factors affect quality. Two major factors are a balanced carbon-chrome ratio and the process of passivation. A balanced carbon-chrome is important for instrument strength and long life. Instruments that are classified as premium have the correct balance. The passivation process is important to create a proactive coat on the outer layer of an instrument to prevent corrosion and extend its life. Electropolishing is sometimes substituted for passivation. The result is a less expensive instrument but one that will not last as long. When purchasing stainless steel instrument, it is best to deal with a reputable manufacturer who will explain the variation in quality of the product available.



Instruments manufactured with materials other than stainless steel present an additional set of factors to consider before purchasing. These include their ability to be disassembled, cleaned and reassembled; their life expectancy; and their compatibility with the existing resources within the sterile processing department (e.g. cleaning chemistries, disinfecting agents and sterilization modalities) available in the center.

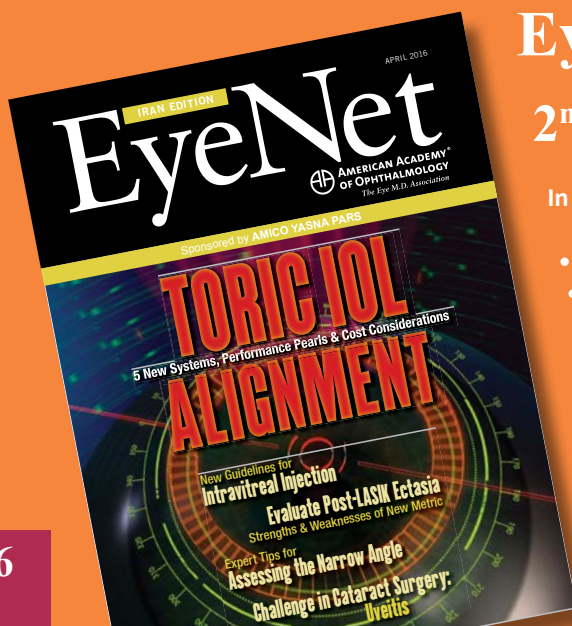
Where **QUALITY** meets **INNOVATION** to **OPTIMIZE OUTCOMES**

**ASICO**

**Geuder®**

**OASIS®**

**OPHTHALMIC SURGICAL INSTRUMENTS**



## EyeNet Magazine 2<sup>nd</sup> Issue

In this volume, latest update on ophthalmic concepts;

- evaluation of Post-LASIK risks
- some guidelines on IVT Injection
- stem cell studies
- use of Amniotic membrane
- TORIC IOL axis alignment
- some tips for assessing the Narrow Angle
- Amblyopia management
- Uveitis in Cataract Surgery
- Triple DMEK vs. Separate Surgeries.

## Vitreotomy Products

# ALCHIMIA

## Silicone Oil Syringes

RS-OIL ECS is highly purified silicone oil (**100% pure polydimethylsiloxane**), **1.000 cS, 1.300 cS, 2.000 cS, 5.000 cS or 5.700 cS**, sterile and apyrogenic, packaged in prefilled 10 ml syringe, intended for long-term replacement of the vitreous humour extracted during vitreoretinal surgery.

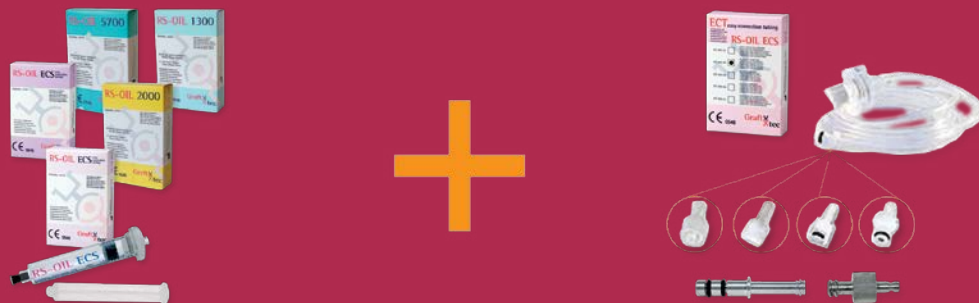
Product warrants a stable tamponade over the time and reduced incidence of complications.

The ready-to-use syringe is made of inert, plastic and silicone oil compatible material to increase patient's safety by reducing the risk of breakage during handling or surgery.



## Vitreoretinal Surgery

## Silicone Oil Pack, automatic injection



SOP, Silicone Oil Pack, includes 1 highly purified silicone oil (100% pure polydimethylsiloxane), 1.000 cS, 1.300 cS, 2.000 cS, 5.000 cS or 5.700 cS, 10 ml, sterile and apyrogenic, packaged in prefilled syringe, intended for long-term replacement of the vitreous humour extracted during vitreoretinal surgery, and 1 connection tubing to the vitrectomy system.

Product warrants a stable tamponade over the time and reduced incidence of complications.

The ready-to-use syringe, made of inert, plastic and silicone oil compatible material, connects to different vitrectomy systems by means of the connection tubing and increases patient's safety by reducing the risk of breakage during handling or surgery.

You can choose the most suitable pack for your needs by combining the silicone oil RS-OIL ECS in the viscosity that you prefer to the tubing compatible with your vitrectomy system:

|                                             |      |                                               |                              |                                       |                              |
|---------------------------------------------|------|-----------------------------------------------|------------------------------|---------------------------------------|------------------------------|
| VISCOSITY OF SILICONE OIL IN SYRINGE (cS)   | 1000 | VITRECTOMY SYSTEMS                            |                              |                                       |                              |
|                                             | 1300 | ACCURUS®<br>CONSTELLATION®<br>ASSOCIATE® 2500 | MILLENNIUM™<br>STELLARIS® PC | ORBIT<br>OS3<br>PHARO™<br>R-EVOLUTION | ASSISTANT *<br>MEGATRON S ** |
|                                             | 2000 |                                               |                              |                                       |                              |
|                                             | 5000 |                                               |                              |                                       |                              |
|                                             | 5700 |                                               |                              |                                       |                              |
|                                             |      |                                               |                              |                                       |                              |
| * adapter (ACC-001)<br>** adapter (ACC-002) |      |                                               |                              |                                       |                              |

Each pack contains 110 ml silicone oil prefilled syringe + 1 tubing

## Vitrectomy Products

# XENOTRON® III HIGH-PERFORMANCE LIGHT SOURCE WITH PHOTOTOXGUARD.

XENOTRON® III offers maximum brightness and safety in combination with a compact design and easy operation. Due to its uniquely high light intensity of up to 80 lumen, the XENOTRON® III even offers perfect endoillumination when used with the smallest fiber optics. The innovative PHOTOTOXGUARD assists the surgeon in efficiently reducing phototoxicity during clinical routines.

## The Highlights of the new Xenotron® III

### The New PHOTOTOXGUARD

#### Unique Safety System for Improving Clinical Routines

- Easy one-touch selection of fiber optics
- Continuous display of light intensity, output and remaining safe operation time depending on the selected fiber optic
- Issuance of a warning before reaching phototoxicity limits according to ISO 15004-2
- Dynamic adjustment of phototoxicity limits when settings are changed intraoperatively

### Uncompromising Light Intensity

#### Maximum light output for excellent and detailed illumination of the fundus

- High performance Xenon system with up to 80 lumen
- Pre-configured settings for 20 through 25 gauge vitrectomy
- Intensity reserves for future PPVs with 27 gauge and greater
- Optimal color temperature and light homogeneity

### Intuitive Color Touch-screen

#### Compact Design and Easy Operation

- User profiles for up to six surgeons
- Easy and quick touch-screen with a flat menu structure
- Perfectly readable parameters and status information
- Self-explanatory depiction of the fiber optics and the PHOTOTOXGUARD

### Flexible and Compact Design

#### minimal space and free Compatibility

- Mobile stand-alone solution or combineable with any vitrectomy system
- With optional top rack, a perfect addition to the megaTRON® S4HPS
- Large selection of fiber optics
- Innovative 25 gauge trocar chandelier system



## Upcomming Events

20 – 22 April 2016

9<sup>th</sup> Annual Congress of  
Vitreoretinal Diseases by  
Kermanshah University of  
Medical Sciences

Parsian Hotel  
Kermanshah - Iran

27 – 29 April 2016

22<sup>nd</sup> Annual Ophthalmology  
Seminar of FARABI

Olympic Hotel  
Tehran - Iran

16 - 18 May 2016

6<sup>th</sup> Global Ophthalmologist  
Annual Meeting

Osaka - Japan

17 - 19 -May 2016

24<sup>th</sup> Annual Ophthalmology  
Seminar by Shiraz University  
of Medical Sciences

Shiraz Hotel  
Shiraz - Iran



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