



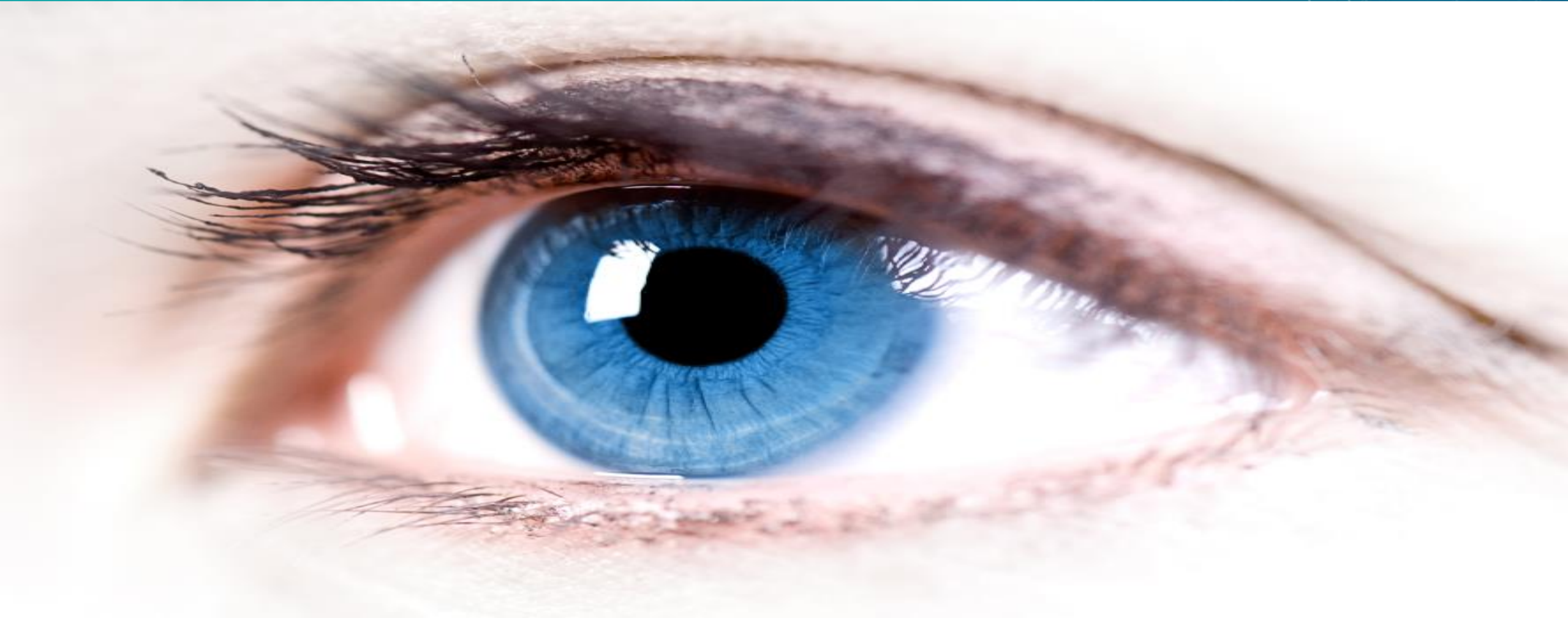
**LOOKING INTO THE
FUTURE**

**MIRANDO HACIA EL
FUTURO**

EDUARDO RIOS M.S.N-ED., R.N.

*“THE EYES ARE THE WINDOWS TO YOUR
SOUL.”*

WILLIAM SHAKESPEARE



WELCOME TO SOUTH TEXAS ACADEMY FOR MEDICAL PROFESSIONS

Today's topics include:

- ❖ The importance of your child's vision in the learning process.**
- ❖ The prevalence of visual disease in our Rio Grande population.**
- ❖ The great necessity to encourage the education of competent Ophthalmology Medical professionals.**

VISION PROBLEMS IN THE ACADEMIC SETTING

- ❖ **Vision problems affect nearly 13.5 million children in the U.S.**
- ❖ **Students, especially young ones, may not know that what they are experiencing is a vision problem**
- ❖ **Leads to frustration and worsening academic performance**

THE MODERN CLASSROOM



TEACHERS' UNIQUE POSITION

- ❖ Teachers are in a unique position to notice a child with a vision problem**
- ❖ See children for many hours a day**
- ❖ See children in an academic setting where visual acuity is required**

THIS MIGHT BE WHAT YOUR CHILD SEES IN CLASS.



XP3(1) Open Command XP3(1)

NAME

net - X Windows network

SYNOPSIS

net [-creating configuration_file] [-start use_port]

DESCRIPTION

net is the X Windows System font server. It supplies fonts to X Windows System display servers.

STARTING THE SERVER

The server is usually run by a system administrator, and started via font files like `/etc/x11-fonts`. There may also exist to start private font servers for specific sets of fonts.

OPTIONS

`-creating configuration_file`
Specifies the configuration file the font server will use.

SEE ALSO

THE LEARNING YEARS

- ❖ **School age children should have a complete eye exam even if they have passed a visual test by the school nurse.**
- ❖ **A student that has visual problems at school will not do as good as a student that has good vision or has had their vision corrected by glasses.**
- ❖ **Some of the signs that your son or daughter is having sight problems include:**
 - ❖ **1. Poor grades.**
 - ❖ **2. Complaints of headaches.**
 - ❖ **3. Squinting**
 - ❖ **4. Rubbing of the eyes**
 - ❖ **5. Sitting too close to the TV.**

SIGNS OF EYE PROBLEMS



VISION SCREENINGS VS. EYE EXAMS

Vision screenings

Performed by non-specialist health staff

Provide baseline VA

Do not test for eye disorders, cannot provide diagnostic information

Eye Exams

Performed by optometrists or ophthalmologists

Thorough

Can detect many vision problems and/or eye disorders and diagnose them

CHILDREN AND EYEGLASSES

- **Do not assume that children with eyeglasses have recently had an eye exam.**
- **A research study found that 49% of eyeglass-wearing children failed a visual assessment. 28% of non-eyeglass-wearing children failed the visual assessment. Children Unable to Perform Screening Tests in Vision in Preschoolers Study. (2014)**

READING AND VISUAL SKILLS

- **A research study was conducted in California high schools among students who were identified by their teachers as “poor readers”.**
- **17% of the students had deficient visual acuity (20/40 or worse in one eye)**
- **80% of the children were inadequate or weak in at least one of the following visual skills: binocular fusion ranges at near, accommodative facility, and convergence near point.**
- **80% of the students passed the visual acuity testing, but only 20% had adequate visual skills.**

Grisham, Powers, & Riles. (2014)

TAKING CARE OF THEIR EYES

Glasses may be expensive but the alternative is the loss of your child's education or worst, their visual health.

WHY IS MEDICAL ACADEMY INVESTING IN OPHTHALMOLOGY?

Diabetes

EYE DISEASE IN OUR RIO GRANDE POPULATION AND THE EYE

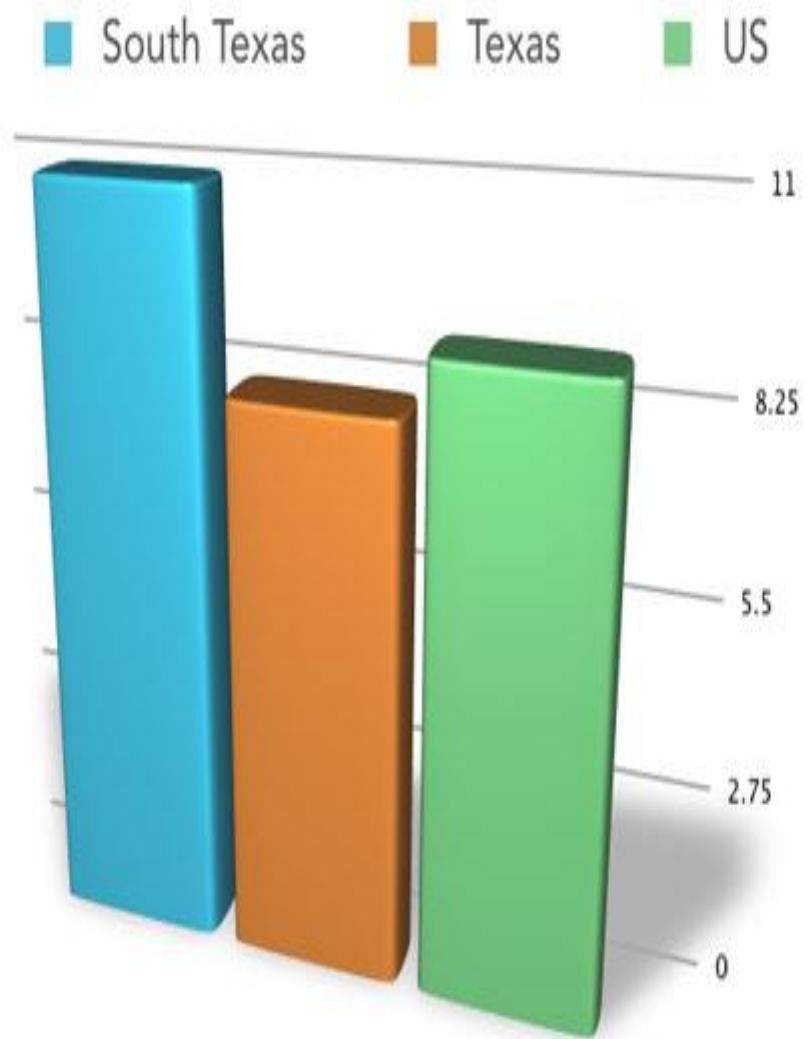
- ❖ **The prevalence of adult diabetes is more than 20 percent higher in South Texas than the entire state of Texas—close to 70,000 people have adult diabetes.**
- ❖ **More than one quarter of all people with diabetes in South Texas have uncontrolled diabetes.**
- ❖ **A greater percentage of adults visit the ER or hospital than the national average.**
- ❖ **Individuals in South Texas are uninsured at a rate more than double the national average and more than 25 % of the diabetic population in South Texas is uninsured.**

The South Texas Diabetes Initiative. 2013. Retrieved from Info@diabetscareproject.org.

THE GROWING FACE OF DIABETES IN THE U.S.



SOUTH TEXAS IS GROUND ZERO FOR DIABETES

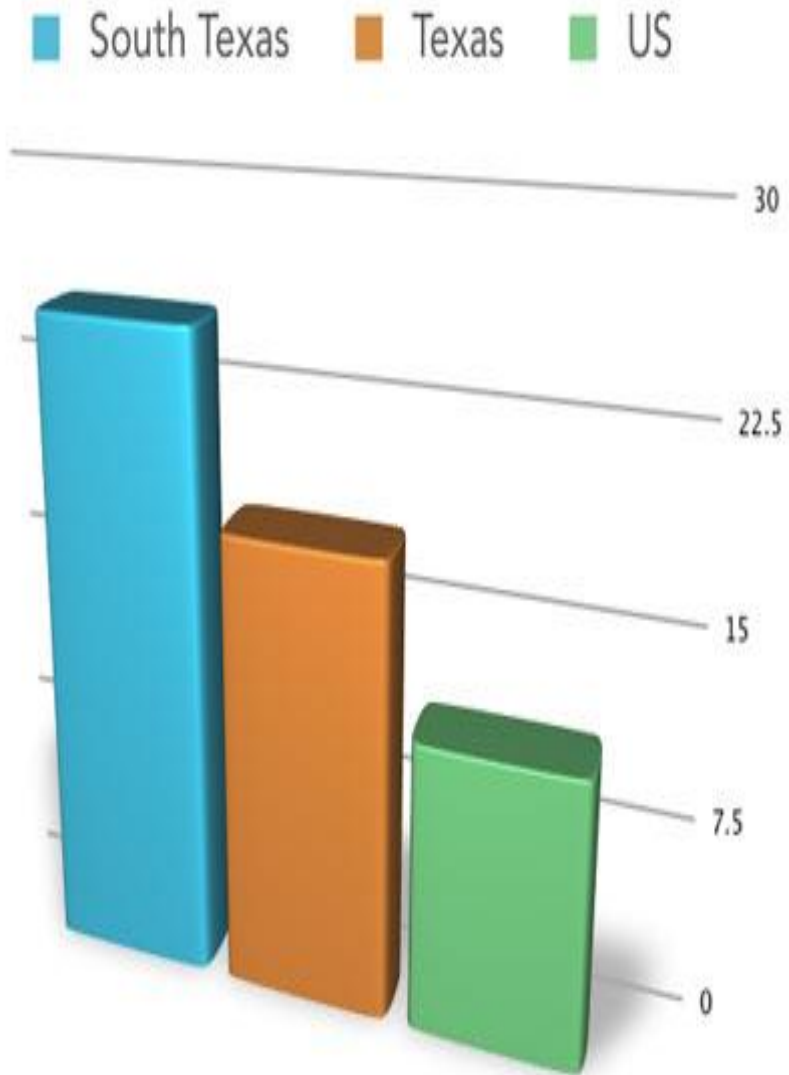


The prevalence of adult diabetes is more than 20% higher in South Texas – Cameron, Hidalgo, Starr and Willacy counties – than the state of Texas.

In South Texas, there are almost 70,000 people with adult diabetes, equaling 11 percent of the population.

(South Texas Diabetes Initiative 2016)

UNINSURED IN SOUTH TEXAS

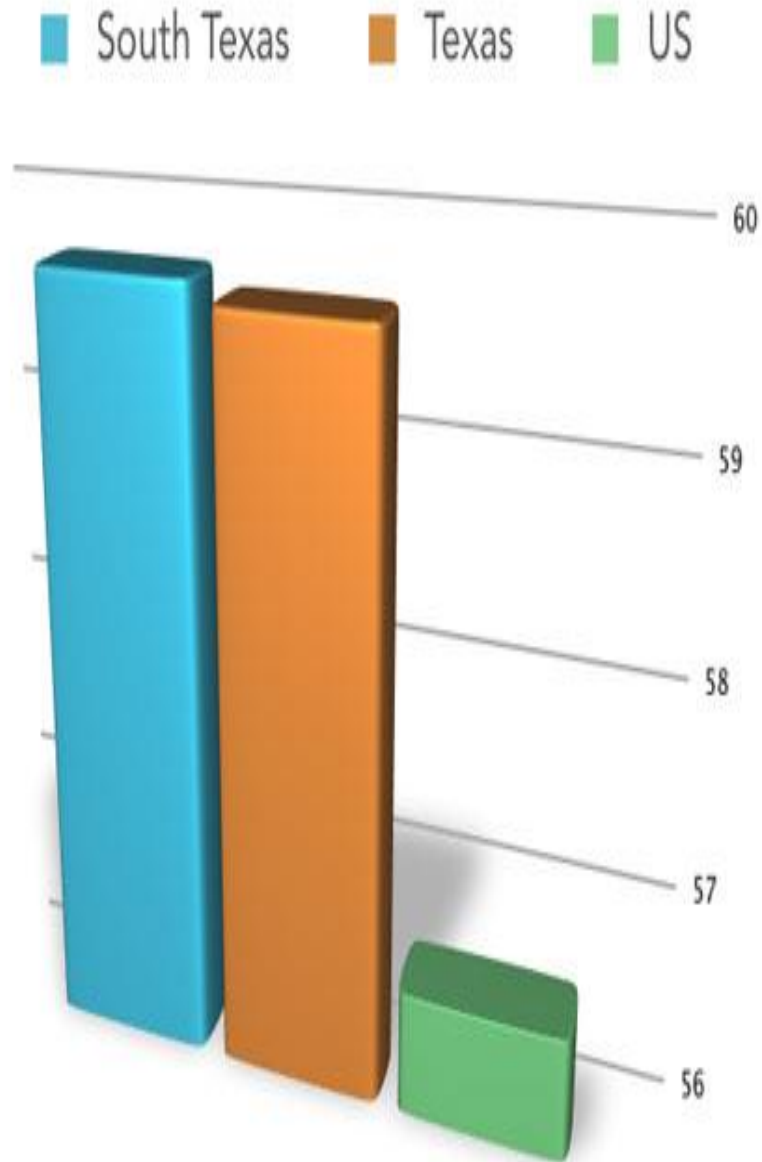


The uninsured population rate is almost 30 percent higher than in Texas.

It is more than double the national average.

(South Texas Diabetes Initiative 2016)

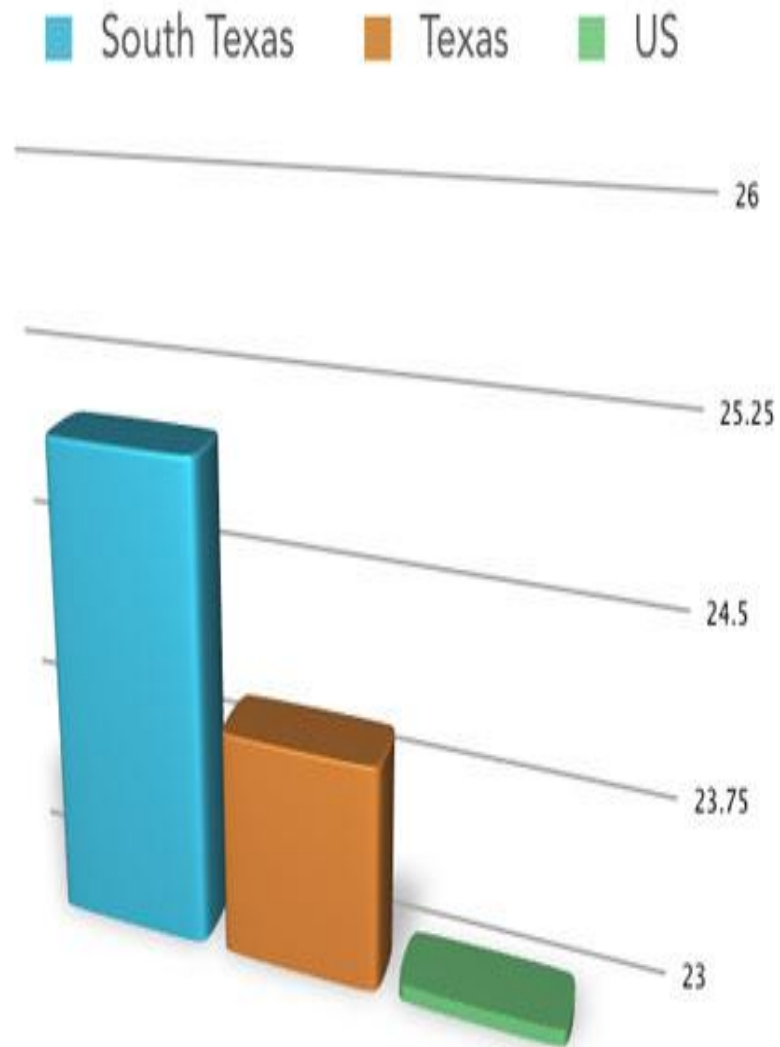
DIABETICS IN THE EMERGENCY ROOM



A greater percentage of adult diabetics in South Texas visit the ER or hospital than the national average.

(South Texas Diabetes Initiative 2016)

UNCONTROLLED DIABETES IS HIGHER IN SOUTH TEXAS



Uncontrolled diabetes is higher in South Texas than in Texas or the United States.

(South Texas Diabetes Initiative 2016)

LIFE IS SWEETER IN THE VALLEY



THE NEED FOR FUTURE OPHTHALMOLOGIST SPECIALIST

- ❖ **Eye Medical personnel are in great demand nationally.**
- ❖ **Ophthalmologist are currently hiring medical assistants that are not trained to serve eye patients.**
- ❖ **It is currently taking 2 to 4 years to certify eye office employees as certified Ophthalmic Assistants.**
- ❖ **Our seniors will challenge the national certification within one school years time.**

THE CERTIFIED OPHTHALMIC ASSISTANT

- ❖ **Ophthalmic medical assistants work under the supervision of licensed ophthalmologist to provide vision care.**
- ❖ **They don't write prescriptions, but they carry out many of the tasks that need to be done to make sure the prescription will be right.**
- ❖ **They test eye muscle function as well as vision. They measure the dimensions of the eyes and the distance between them.**
- ❖ **They may also assist eye doctors with surgical procedures.**

THE NEWEST TECHNIQUES THE NEWEST INSTRUMENTS



OUR PROGRAM

- ❖ **The program offered here at Medical Academy is a ground breaking curriculum not offered in any High School level nationally.**
- ❖ **The Ophthalmic Assistant course is available at this campus for 12 graders who choose to enter this highly technical career.**
- ❖ **The goal is to spark the interest in the field, encouraging our students to continue further studies at the University level.**

THE CAREER OUTLOOK.

- ❖ **As our U.S. population ages, there is an increase need for eye care services.**
- ❖ **Job prospects are predicted to increase by 34% for our graduates for the next 10 years (Health Care Pathway 2016).**
- ❖ **The best candidates for this in-demand job will be the person who has gone through formal education, has the clinical experience hours, and are certified.**

**Ophthalmic Assistant Job Description.
(2016)**

WORK CITED

1. **“Children Unable to Perform Screening Tests in Vision in Preschoolers Study: Proportion with Ocular Conditions and Impact on Measures of Test Accuracy.” Investigative Ophthalmology and Visual Science. 48 (2013):83-87.**
2. **Grisham, D., Powers, M., and Riles, P. “Visual skills of poor readers in high school.” Journal of the American Optometric Association. 78.10 (2014); 542-549.**
3. **South Texas Diabetes Initiative. 2016 National Minority Quality Forum, Inc. All Rights Reserved.**
4. **Ophthalmic Medical Assistant Career. 2016 Retrieved from : <http://www.healthcarepathway.com>**