

Alamogordo Breakfast Lions Club Inc.

"Operation KidSight"

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iScreen

Digital Vision Screening Technology

iScreen Fact Sheet

- **80%** of what we learn is through visual processing of information.
- Children can't learn if they can't see.
- **9-10** out of every **100** children have vision problems undetected by their physician.
- Pediatricians have previously not had the means to detect a large percentage of eye problems.
- iScreen technology enables approximately **90%** of these problems to be detected.

Statistics and Recommendations – The American Academy of Pediatrics cites and recommends:

- Vision problems are the **4th** most common disability among children in the United States.
- **20%** of the pediatric population has refractive problems before the teenage years. The Eye Care Council cites this jumps to **30%** at age 15.
- **14%** of three year olds have vision problems.
- Between **2 and 5%** of children have amblyopia, the leading cause of blindness in children.
- Children's eyes should be initially screened at the earliest possible age and annually thereafter.
- Children with positive results should be referred to an appropriate eye care specialist.

Side Effects of Impaired Vision:

1. Inability to read, poor grades in school, school drop-outs
2. Low self esteem
3. Behavioral problems
4. Poor hand-eye coordination
5. Limited employment opportunities
6. Increased accidents
7. Impaired quality of life

iScreen Digital Vision Screening – provides:

- Highly accurate test results (90 - 93% accuracy rate)
- Minimal screening time (3 minutes)
- Instant verification of image quality
- No response from patient required
- Transfer of images nightly to central analysis via phone lines or Internet
- Tests results the next day
- Central analysis for consistency, quality control, and accuracy

iScreen Technology – was developed by the U.S. Army Aviation and Missile Command (the image enhancing technology was originally developed to pinpoint missile targets), in conjunction with a pediatric ophthalmologist and leading authority in photoscreening, Dr. Ross A. Kennedy (Vancouver, British Columbia), who also trains the analysts.

There are ongoing studies at the University of Tennessee Department of Ophthalmology, Tufts University, the University of Texas, and Ohio State University College of Optometry.