



Case Study

- Cycloplegic refraction:
 <u>– Right eye: +6.50-1.00x010</u>
 - Left eye: +6.50-0.75x165

How did standard vision screening fail?

 How could automated vision screening have caught this earlier?



	Timel	ine for Scr	eening Exams	
		F	igure 1	
	Timeline of Disease Natural History			
	 Biological	Detectable	Typical Time	
	Adverse Onset of Disease	Using Screening Test	of Diagnosis & Treatment of Disease	
THE AL		Lead 7	Time	
	L	Preclinical Phase	Clinical Phase	
We h				





The Gold Standard: eye chart

Inexpensive

Not easy, quick, accurate, or reproducible

- Significant training and experience for nurses and techs
- Poor cooperation
- Time-consuming to perform correctly
- Effort-dependent
- Cheating
- Wrong technique
- Wrong optotype used
- Age dependent variables (Difficult <3 years of age)















Fraternal organizations

