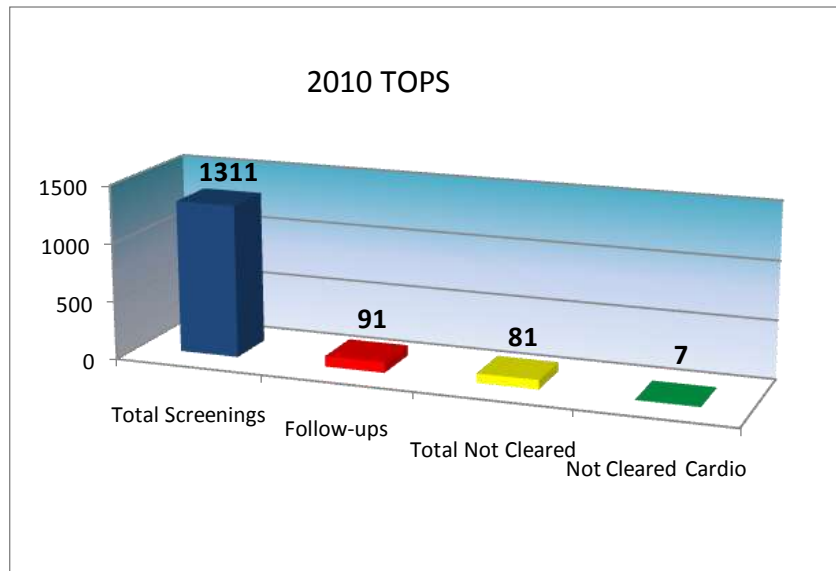


2010 TOPS Screening Results Summary

1,311 students from 40 schools were screened. This year's numbers were down from 2009 by 1,017 students. The exact reason for the decline in students can only be speculated. We do know the absence of many Phoenix Union schools accounts for a large portion. There were also numerous State Tournaments that began on May 1st and students may have skipped the event to prepare for their games.

91 students required follow-up examinations. Those 91 follow-ups included eye examinations, dental exams, blood pressure rechecks, clearance from their personal physician for current injuries and illnesses, and evaluations by a cardiologist.



68 of the 81 students needed their blood pressures rechecked and could be cleared to play following a successful outcome of that procedure. 13 students had issues which were serious enough to deny them clearance, pending further evaluation. Seven of those 13 students required further evaluation for cardiac related issues. Two of the seven, not cleared for cardiac reasons, had prior histories and need to be cleared by their personal cardiologists.

The seven students who were not cleared due to cardiac related issues represent one half, of one percent, of the total students examined. They represent the "needles" in the proverbial haystack that the TOPS program dedicates its efforts to find. These are the students that might never be diagnosed until they become a medical emergency.

When reviewing the attached pages of statistics it is important to keep them in perspective. We endeavor to follow the criteria of the original Italian study. So many of the EKG findings fit that criteria. However, our cardiologists using their knowledge and experience evaluate the totality of information; family history, physical examination and EKG when determining which students need an echocardiogram.

Not all findings that require follow-up are life threatening or keep a student from participating in sports. Some simply need to be evaluated and perhaps monitored over time.

TOTAL FINDINGS 2010

Males	Females	Total
827	484	1311

Total Schools
40

Followups	High BP	Not Cleared Cardio	Not Cleared Total
91	68	7	81

EKGs Preliminarily Meeting Criteria	Echos	Abnormal Echos
281	322	7

Preliminary EKG Findings 2010

Heart Block		Bundle Branch Block	
1st Degree	0	<i>Left - LBBB</i>	0
2nd Degree	0	<i>Right - RBBB</i>	1
3rd Degree	0	Incomplete Right - IRBB	138
Left Atrial Enlargement	1	Left Axis Deviation	4
Right Atrial Enlargement	4	Right Axis Deviation	98
Bi-Atrial Enlargement	0	Indeterminate Axis	0
Left Ventricle Hypertrophy	2	<i>T-Wave</i>	18
Right Ventricle Hypertrophy	4	<i>D-Wave</i>	0
		<i>U-Wave</i>	0
Supraventricular Tachicardia	0	Short PR	0
Minor Intraventricular Conduction Defect	8	Long PR	0
Ectopic Atrial Rhythms	3	ST Segments	16
Bifascicular Block Anterior	0	Wide QRS	0
		Premature Ventricular Contractions	3

Additional Findings - 2010

- 2 Bicuspid Aortic Valves
- 2 Patent Foramen Ovale
- 4 Left Ventricular Hypertrophy (both mildly concentric)
- 1 Atrial Septal Defect, large - Persistent Superior Vena Cava
- 1 Wolff-Parkinson-White Syndrome