American Heart Association 14-Element Screening (Maron BJ Circulation 2014

Medical history (Parental verification recommended for high school and middle school athletes)

Personal History

- 1. Exertional chest pain/discomfort
- 2. Exertional syncope or near-syncope
- 3. Excessive exertional and unexplained fatigue/fatigue associated with exercise
- 4. Prior recognition of a heart murmur
- 5. Elevated systemic blood pressure
- 6. Prior restriction from participation in sports
- 7. Prior testing for the heart ordered by a physician

Family history

- 8. Premature death-sudden and unexpected before age 50 yr due to heart disease, in one or more relatives
- 9. Disability from heart disease in a close relative < 50 yo
- 10. Specific knowledge of certain cardiac conditions in family members: hypertrophic or dilated cardiomyopathy, long-QT syndrome or other ion channelopathies, Marfan syndrome, or clinically important arrhythmias

Physical exam

- 11. Heart Murmur-exam supine and standing or with valsalva, specifically to identify murmurs of dynamic L ventricular outflow tract obstruction
- 12. Femoral pulses to exclude aortic stenosis
- 13. Physical stigmata of Marfan syndrome
- 14. Brachial artery blood pressure (sitting, preferrably taken in both arms)
- ❖ Positive/abnormal screen warrants further evaluation and 12-lead EKG
- ❖ AHA does NOT currently recommend routine 12-lead ECG