Improving Universal Lipid Panel Screening in Children 9-11 Years Old

**SETTING**
- Monroe Carell Jr. Children’s Hospital at Vanderbilt Primary Care Clinic (PCC)
- Provides comprehensive sick and well-child care to children from birth through the teen years

**AIM**
Achieve a 90% success rate of appropriate screening/treatment of children 9-11 years old

**BACKGROUND**
In December 2011, an expert panel report by the National Heart, Lung and Blood Institute, endorsed by the American Academy of Pediatrics, published new recommendations for universal screening of 9-11 year old children with a non-fasting lipid panel and treatment guidelines. Highlights were:
- Atherosclerosis its risk factors can be identified in childhood and correlate with coronary vascular disease in adulthood.
- Every 30 mg/dL increase in non-HDL cholesterol level is associated with increase in extent and severity of atherosclerosis.
- Risk factors measured in childhood and adolescence are better predictors of the severity of adult atherosclerosis than are risk factors measured in adulthood.

**INTERVENTIONS**
1) Prompt inserted into StarPanel: increased lipid screening to ~50% (Figure 2)
2) Create/Present a didactic teaching session for providers
3) Develop a simplified screening/treatment algorithm (Figure 3)
4) Create handout for families on the importance of plasma lipids/screening

**PROPOSED ALGORITHM**

**FUTURE WORK**
- Distribute/update algorithm
- Education on initiating statin therapy
- Establish referral protocol/guidelines