

**Baptist Trinity Lutheran
Legacy Grants for Student Health**

**Raytown Quality Schools Application
October 29, 2018**

Overview of the Raytown School District

Mission Statement

Raytown Quality Schools: A unified learning community leading individuals to achieve the exceptional.

Organizational Profile

The Raytown School District has been in existence since 1903. It is comprised of ten elementary schools, three middle schools, two high schools, one alternative school, two preschools, a school for students with severe disabilities, and a vocational center serving six districts. Each of the schools has a designated clinic that is staffed by a licensed practical nurse. There are also three district registered nurses.

Student Population and Demographics

There are approximately 8900 students in the Raytown school district. The demographics that are represented are 49% Black, 30% White, 13% Hispanic, and 8% other. The attendance rate is 84.5% compared to 88.7% for the state of Missouri. There are 5777 students who qualify for free or reduced price lunch or 66.1% compared to 51.2% for the state.

Availability and Types of Health/Wellness Programs

Currently the Raytown School District has partnered with several outside organizations to provide additional health screening and support: Score 1 for Health, Cerner Health Kids, Smile It's Healthy, and CareDox Healthy Schools. Score 1 for Health provides children from Kindergarten through 5th grade, at five of Raytown's elementary schools, with an initial comprehensive assessment including height, weight, blood pressure, vision, dental and basic head-to-toe physical exams. Follow-up second and third screenings are performed by registered nurses to re-evaluate abnormal vision, dental, and metabolic assessments. The other five elementary schools are supported by Cerner Health Kids who offers free well-child screenings for elementary school children with parental consent. These screenings include height, weight, and temperature; BMI calculation, vital signs, hearing tests, and a head-to-toe assessments. Clinicians use this information to identify health issues and make appropriate referrals. Another support that is provided is Smile, It's Healthy! a dental services organization

that brings dental services to Raytown's ten elementary schools to provide preventative and restorative dental care. For the past two years, the district has also utilized CareDox, a comprehensive digital health platform for PK-12 schools which helps school nurses deliver care, keep students safe, and connect with parents. CareDox also supports by providing immunizations, vaccines, and flu shots.

Raytown Quality Schools Board Members

Dr. Kristie Collins, President

Mr. Terry Landers, Vice President

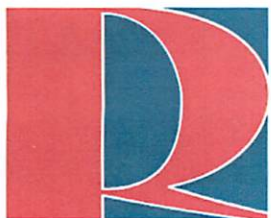
Dr. Pam Arlund

Mr. Rick Moore

Mrs. Beth Plank

Mrs. Bobbie Saulsberry

Ms. Amy Tittle



**RAYTOWN
QUALITY
SCHOOLS**
Expect the Exceptional

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Office of the Superintendent
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To Whom It May Concern:

This letter is in support of the grant proposal submitted by the Health Services Department of the Raytown School District. This grant would provide needed resources in the areas of asthma assessment and treatment and health screening for our Raytown students.

The safety of our students is a top priority of the Raytown School District. Many students visit our clinics each day, and often our nurses are called to emergency situations around the schools. These emergency situations often require our nurses to make quick assessments of student's health. The requested handheld pulse oximeters will enable our clinic staff to do more accurate assessments of students who are experiencing breathing problems. Digital blood pressure/heart rate monitors and pen lights will allow our staff to evaluate students in emergency situations and after injuries. The addition of the Automatic External Defibrillator Trainer will provide more realistic training experiences for our district staff and make them more prepared in the case of an emergency when the AED was required.

We believe these additional resources will improve the level of care our students receive in the clinics as well as improve our training programs for staff. This proposal clearly addresses the ideas of the Baptist-Trinity Lutheran Legacy Foundation "to provide support in the greater Kansas City area for crisis related medical assistance, neighborhood school health grants and health education programs and services." We appreciate your consideration of this proposal.

Sincerely,

Dr. Allan Markley
Superintendent of Schools

Project Narrative

This grant application is for the Legacy Grant for Student Health with a specific focus on the project categories of asthma assessment and treatment and health screening. Our district has already made commitments and plans for specific mental health intervention training through several other programs.

The Raytown School District has experienced a greater need for health assessment tools that can be used in emergency situations including pulse oximeters, wrist blood pressure cuffs, and pen lights. During September 2018, there were over 11,882 visits by students to the Raytown Schools 19 clinics. Students are seen for a variety of ailments, but some of the most frequent visits are from students with trouble breathing. There are 920 students in the district who have been diagnosed with asthma. When students come to the clinic complaining of shortness of breath, one of the best ways to evaluate them is by measuring the oxygen level in their blood. The pulse oximeters in the clinics now are inaccurate and unreliable. Some clinics have contacted the district nurses concerned that the pulse oximeter had a very low reading on a student. A visual assessment of the student did not support the low oxygen reading indicating the oximeter was not measuring correctly. If the oxygen level is greater than 92%, they know the students are not in immediate distress. Students with an oxygen saturation of less than 92% may need more intervention including a breathing treatment or a 911 call. By providing more efficient pulse oximeters to each of the clinics, the nurses can easily assess the severity of the breathing issue and provide the proper intervention and medical care to students.

Number of Clinic Visits for Asthma or Asthmatic Symptoms	
Shortness of Breath	464
Asthmatic Visits	1124
Wheezing	37

Another area of need is for digital blood pressure cuffs and heart rate wrist monitors. Nurses are called away from the clinic at least once a day for student emergencies in areas such as classrooms, gyms, and playgrounds. As they rush out the door, they grab their emergency bags which contain glucometers, ice packs, and other first aid equipment. Blood pressure cuffs are not kept in these bags, so in the heat of the moment, sometimes these are forgotten. All of our blood pressure cuffs are manual and if the individual is not trained, they may not have the expertise to get an accurate

reading. By providing digital blood pressure cuffs/wrist monitors to the clinics to include in their emergency bag, all vital signs can be properly assessed outside the clinic.

During the 2017-2018 school year, over 2120 students were seen for head injuries in the clinics. These resulted from falls on the playground or in the classroom or injuries in physical education classes. The nurses assess every student with an injury from the shoulder and above looking for signs and symptoms of a concussion. Our nurses follow the Center for Disease Control guidelines to assess students which includes measuring gait, orientation, pupil size and dilation. Reusable pen lights would assist in assessing students pupil dilation and size and reaction to light.

All buildings are equipped with Automated External Defibrillators, and training is provided to all nurses, before and after care staff, and administrators by the district Registered Nurses. Current practice uses our AEDs for this training, but staff is not able to practice using the devices. The purchase of AED trainers would provide realistic training by using the same voice prompts as the AED units and allow for a more effective hands-on training experience.

The handheld pulse oximeter, digital blood pressure heart rate wrist monitors, and pen lights will be placed in each of the clinics in the district. At the ten elementary schools, there are approximately 3772 students. There are about 4539 students at the district's five secondary buildings. The district's special programs include an alternative school, a school for students with severe disabilities, and two preschool buildings that house about 593 students. The district also employs a total of 1400 people: 776 certified staff members and 624 classified.

The addition of these items to the Raytown clinics will improve the efficiency of the medical assessments and screenings. The oximeters, wrist monitors, and pen lights will allow nurses to evaluate students more quickly and to reduce the amount of time students spend in the clinic. By reducing the time spent in the clinics, students will be able to spend more time in the classroom learning.

To evaluate the effectiveness of these additions to the clinic, the district will use the CareDox system to measure the number of times these devices were used. The amount of time spent in the clinic will also be calculated as these devices should reduce the time spent out of the classroom.

The number of staff trained with the AED Trainer will also be calculated as will the number of times the AED was utilized during the school year.

Budget

Item	How it will be used	Number	Cost	Total
Handheld Pulse Oximeters	Monitor oxygen level of students, especially asthmatics	23	\$229	\$5267
Digital Blood Pressure/Heart Rate Wrist Monitor	Include in Emergency Bags to be able to assess students on the playground, athletic field or classroom	23	\$60	\$1380
Pen Lights	Assess head injuries by evaluating pupil dilation and eye tracking	20	\$15	\$300
Manual blood Pressure Cuffs	Assess blood pressures for physician orders in the clinics	20	\$177.99	\$3559
AED Training Kits	Provide authentic training and practice for staff	3	\$660	\$1980
				\$12,487

District contact

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