

School District of Manawa
Annual Health Services Report for the 2017-2018 School Year
District Nurse Olivia Koehn, RN BSN

In continuing with my method of reporting from last year I have written this Annual Health Services Report for the School District of Manawa with the intention of providing administration, the school board, and community members with statistics, information, and narratives to demonstrate the importance of nursing services and benefits we provide to the district. Students who are healthy and managing health conditions appropriately are able to focus more of their time and energy on their education; I firmly believe this is the purpose we fulfill as a department.

I want this report, as well as our accomplishments this year, to be a source of evidence that this department is continuing to move forward, despite much transition in the school nurse role.

Accomplishments

Some accomplishments that have occurred in partnership with students, staff, and administration include: an initiative to track down health information that we may be missing by sending out a health condition verification form home with registration materials to verify the presence or absence of health conditions we should be aware of at school. All students have received medical forms with registration materials so they may take these documents to summer medical appointments. Secondly, in keeping with a goal from last year, the nurse has been involved in decisions regarding scope/sequence and material of health education. I was excited to provide health education for fourth, fifth, and sixth grade boys and girls. Additionally, all district health services forms have been updated after a year of use and health services were provided to students attending an out-of-state field trip to Nashville, TN. Another point worth mentioning is that last summer about 23 individuals were trained in CPR and this summer another 16 will be trained.

Goals

My goals for next year for the district are to: enact the emergency response team and complete drills to ensure staff members are ready to respond to an emergency; work to continue assembling and complete the health services handbook; and to achieve the Project Adam Heart Safe School designation.

Staffing School Nurses

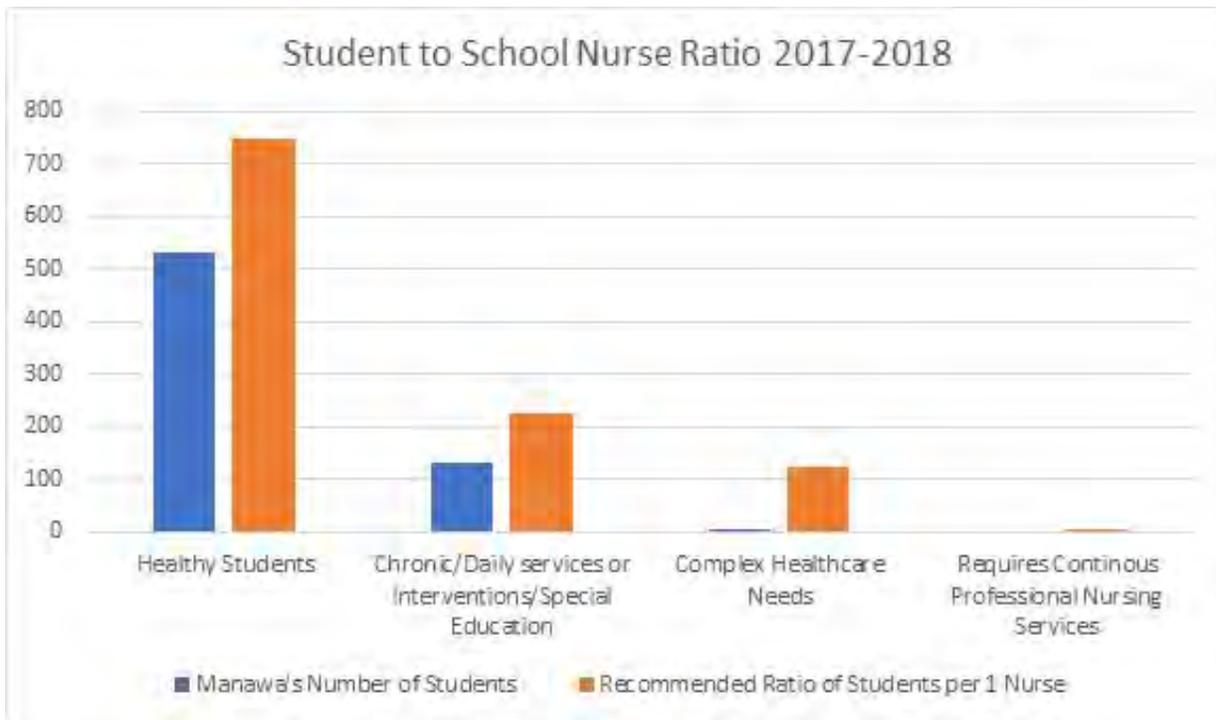
The National Association of School Nurses (NASN) recommends that there is one full-time nurse for every 750 healthy students (meaning students without health conditions); one school nurse for every 225 students who have chronic conditions, require daily nursing services or interventions, or special education inclusion; one school nurse for every 125 students who have complex healthcare needs; and one school nurse for every one student requiring continuous professional nursing services or who has multiple disabilities. These recommendations are acknowledged by the American Academy of Pediatrics and Healthy People 2020, an initiative of the Department of Health and Human Services. Wisconsin is currently ranked 41st in the country with an average of 2,359 students per school nurse (National

Association of School Nurses, 2015).

How does Manawa measure up to these recommendations?

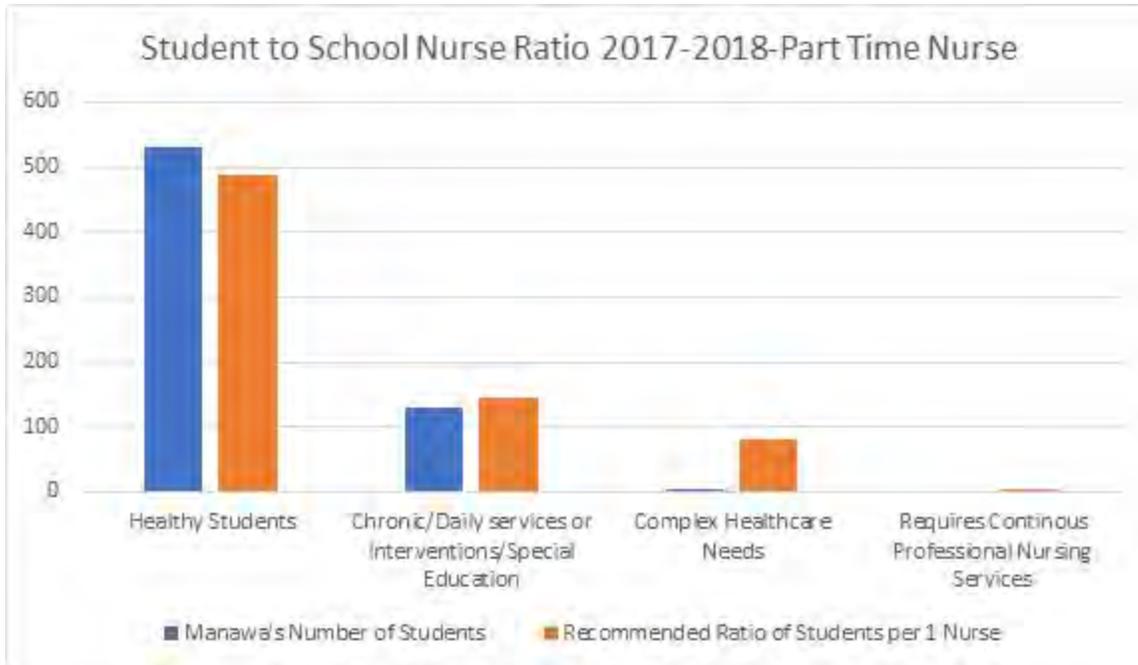
2017-2018 Student to School Nurse Ratio: 664 total students enrolled in the School District of Manawa at the end of this school year managed by one part-time school nurse.

| | | |
|----------------|---|-----------------------------|
| Manawa's Ratio | | Recommended Ratio: 1 FTE RN |
| 531 | Healthy Students | 750:1 |
| 130 | Chronic/Daily Services or Interventions/Special Education | 225:1 |
| 3 | Complex Healthcare Needs | 125:1 |
| 0 | Requires Continuous Professional Nursing Services | 1:1 |



Since our school nurse is a part-time position (0.65 FTE) if we were to divide the recommended ratios to equate a part-time nurse for the caseload it would look like this:

| | | |
|-----|---|-------|
| 531 | healthy students | 487:1 |
| 130 | Chronic/Daily Services or Interventions/Special Education | 146:1 |
| 3 | Complex Healthcare Needs | 81:1 |
| 0 | requires Continuous Professional Nursing Services | 1:1 |



Here is some past data for comparison:

2016-2017

Student to School Nurse Ratio: 703 total students enrolled for 1 part-time nurse

| | | |
|-----|---|-------|
| 559 | Healthy Students | 750:1 |
| 140 | Chronic/Daily Services or Interventions/Special Education | 225:1 |
| 4 | Complex Healthcare Needs | 125:1 |
| 0 | Requires Continuous Professional Nursing Services | 1:1 |

2011-2012

Student to School Nurse Ratio: 749 total students

| | |
|-----|---|
| 512 | Healthy Students |
| 234 | Chronic/Daily Services or Interventions/Special Education |
| 3 | Complex Healthcare Needs |
| 0 | Requires Continuous Professional Nursing Services |

Value of the School Nurse

School nurses are vital due to the nature of being case managers. We bring health care providers, students families, and school staff together to enhance health and keep students learning in the classroom. We ensure access to all areas of care including medical, dental, and vision. Some children may not receive vital care for various reasons including insurance coverage and financial burden and it is the school nurse's role to coordinate and make this care possible. School nurses are responsible to determine health status, make referrals for appropriate resources, identify vision or hearing issues that can impact learning, deliver care in the event of emergencies, administer medication or vaccines, perform nursing procedures, provide counselling, help manage chronic illnesses, and provide wellness

programs for the school community. "Schools are identified as primary locations to address student health issues, and the school nurse is often the healthcare provider that a student sees on a regular basis (National Association of School Nurses, 2015)." If all of these services are provided to students in the school environment they will be able to stay in school more and go home from school less.

The World Health Organization predicts chronic disease prevalence to increase by 57% by the year 2020. This includes conditions such as diabetes and asthma. The increasing prevalence is causing us to see more and more complex and chronic care needing to be provided in the school environment.

To me, our main role is to help manage and slowly increase the students autonomy in caring for their health conditions all while improving their school attendance and thus improving academic success. A student's whole life is impacted by their academic success which starts with prekindergarten.

Not only is a school nurse an investment that improves the health and attendance of students it also has financial benefits to employ a school nurse. According to a recent study performed on a program in Massachusetts in which full-time nurses were put in schools the program "more than paid for itself by averting medical costs and lost work for parents and teachers." The study also concluded that teachers lose an average of 22 minutes per day of educating time to dealing with student health issues. See also the following information I have quoted from Mrs. Michelle Kaczorowski RN BSN in her 2011/2012 annual report.

"Statistics show that having school nurses saves the school staff, administrators, and teachers up to 13 hours per week, saving principals an hour per day. School nurses save other school staff considerable hours on related health issues increasing productivity and allowing them to provide the skilled services they are educated to deliver."

Value of the Paraprofessional/Health Aide

We currently employ one health paraprofessional in each school building for the district. Kris Thompson and Sandy Dunnihoo are vital additions to the health services team for our schools. Since I work part-time, a portion of daily care provided to students is delegated by myself to them. They assist with communication with parents, organization, first aid, documenting in Skyward, medication administration, diabetic care, and student visits to the health room. With their presence the health rooms are sufficiently staffed and students with health conditions are monitored during required times.

2017-2018 Health Services Statistics

Data is gathered throughout the year in skyward by documenting when students visit the health room. By logging visits and running reports we can gather and analyze the data. All data gathered prior to 2016-2017 was gathered by previous school nurses. It appears that starting in 2010-2011 MMS data was included with LWHS, I am unable to locate data for several missing years.

Health Room Visits

Visits logged below include not only the physical presence of students, but also care planning, contact made such as phone calls and emails in regard to students, and updates to student health status and

restrictions.

| | MES | MMS | LWHS | Total |
|------------------|-------------|------|-------------|-------------|
| 2004-2005 | 2878 | 943 | 149 | 3970 |
| 2005-2006 | 2990 | 720 | 238 | 3948 |
| 2006-2007 | 3450 | 997 | 227 | 4674 |
| 2007-2008 | 4215 | 2200 | 167 | 6582 |
| 2008-2009 | 2762 | 1019 | 132 | 3913 |
| 2009-2010 | 2384 | 839 | 331 | 3554 |
| 2010-2011 | 1862 | | 573 | 2473 |
| 2011-2012 | 1882 | | 664 | 2546 |
| | MES | | LWJSHS | |
| 2016-2017 | 3365 | | 5096 | 8452 |
| 2017-2018 | 2332 | | 4478 | 6810 |

Health room visits this year:

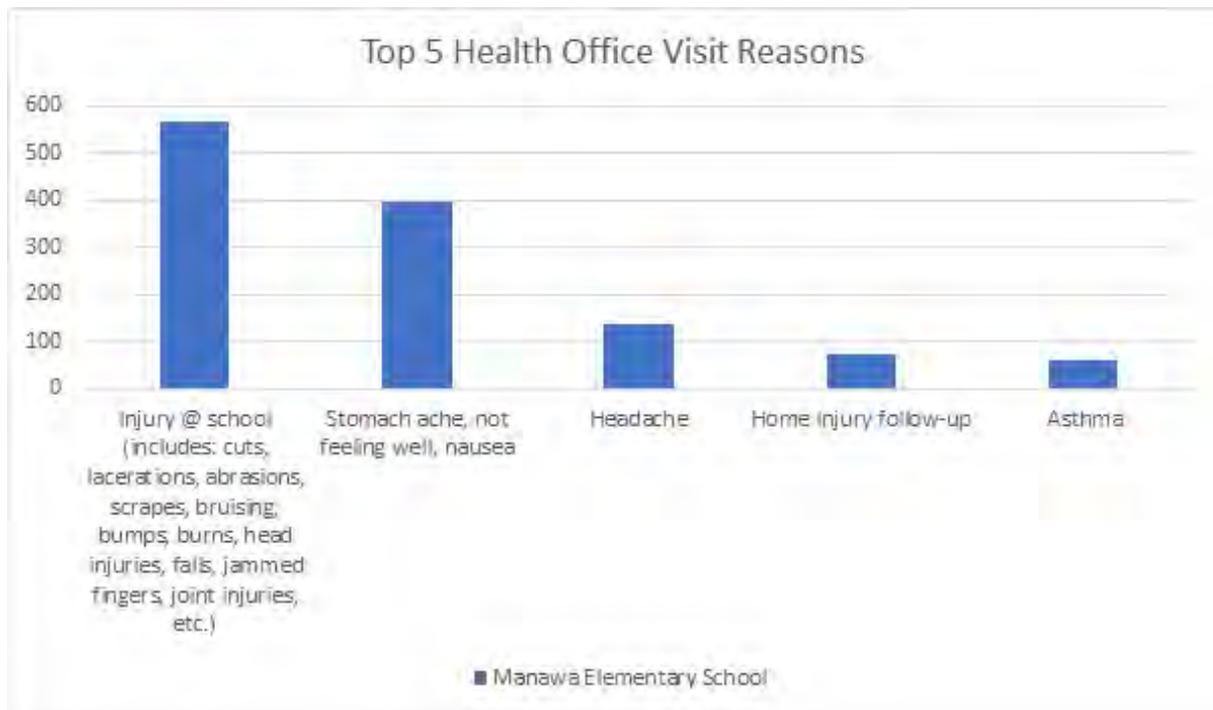
4,478 per year Average of 25 per day at LWJSHS

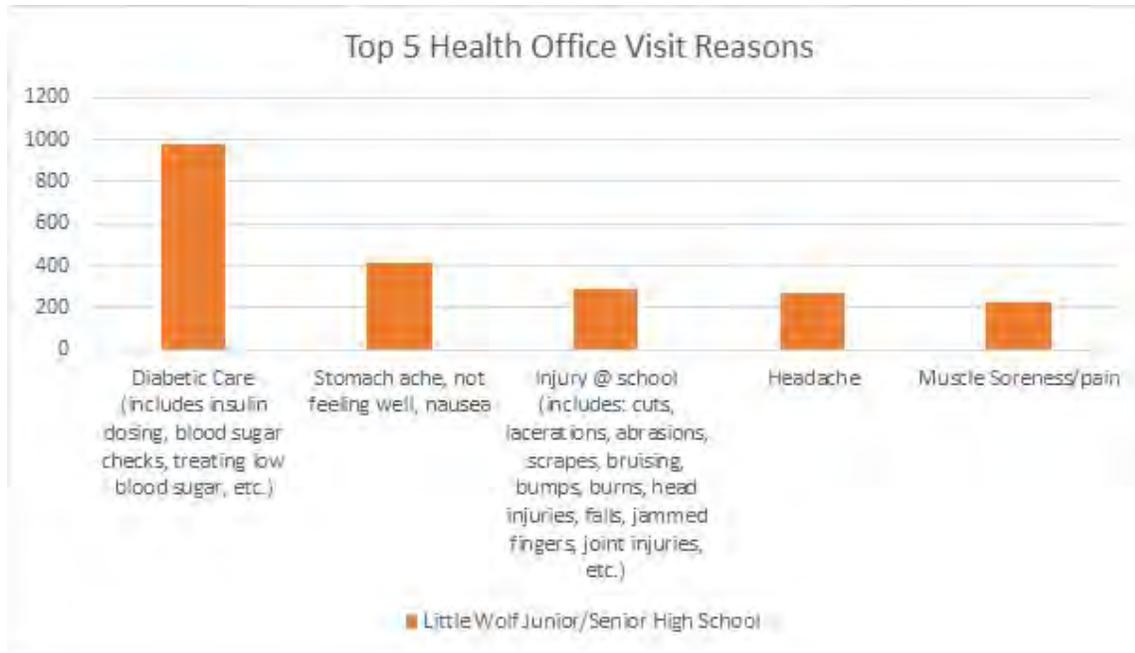
2,332 office visits this year Average of 13 per day at MES

Total: 6,810 office visits completed by 661 students; average of 38 visits per day for both offices.

Top 5 Health Office Visit Reasons:

2017-2018 data excludes medication administration.





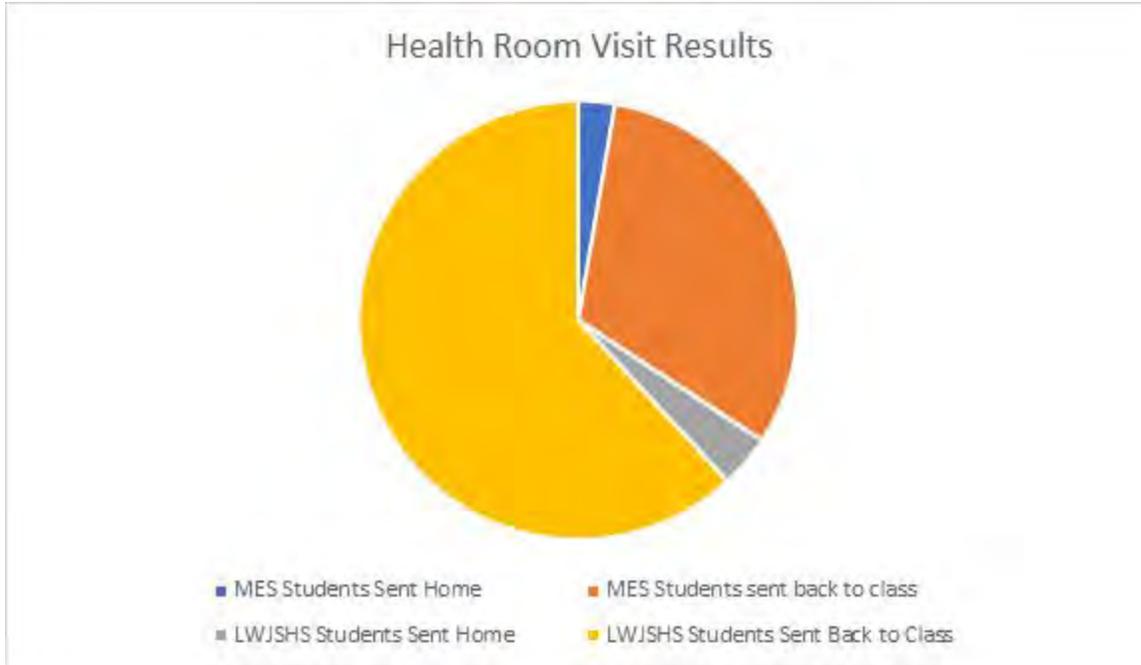
Top 5 Treatments Administered

2017-2018 data excludes medication administration.

| | | | | | | |
|-----------|--------|--|------------------|-----------------------------|-----------------------------|------------------------|
| 2017-2018 | MES | 528 | 442 | 215 | 192 | 59 |
| | | Ice pack | Rest/snack/water | Bandaid/wrapped/clean/cover | Call parent | Inhaler/nebulizer |
| 2017-2018 | LWJSHS | 643 | 452 | 295 | 290 | 121 |
| | | Rest/Snack/Water including diabetic snacks | Call parent | Ice pack | Bandaid/wrapped/clean/cover | Bathroom/hygiene needs |

Health Room Visit Results:

School health services tries to make it possible that as many students remain at school as possible. At Manawa Elementary School 8% of office visits resulted in a student being sent home, at Little Wolf Junior/Senior High School, 6% of office visits resulted in a student being sent home.



| | | | |
|-----------|--------|-----------------|-----------|
| 2017-2018 | MES | 2150 | 182 |
| | | Return to class | Sent home |
| 2017-2018 | LWJSHS | 4213 | 265 |
| | | Return to class | Sent home |

Additional Information:

| | Scheduled Oral medication Doses: | Blood Sugar Checks: | Insulin Doses: | Inhaler/Nebulizer Doses | Epipen Doses: | Glucagon Doses: |
|-----------|----------------------------------|---------------------|--|-------------------------|---------------|-----------------|
| 2008-2009 | 1646 | 1066 | 325 (plus one student with an insulin pump who needed to be bolused) | 84 | 0 | Not tabulated |
| 2009-2010 | 2289 | 1040 | 373 (plus 2 students with pumps who needed to be bolused) | 52 | 1 | Not tabulated |
| 2010-2011 | 1724 | 1694 | 346 (plus 2 | 72 | 0 | Not tabulated |

| | | | | | | |
|-----------|------|------|---|---------------|---|---------------|
| | | | students with insulin pumps who need to be bolused) | | | |
| 2011-2012 | 1588 | 1634 | Not tabulated | Not tabulated | 0 | Not tabulated |
| 2016-2017 | 1574 | 1243 | 140 (plus 3 students with insulin pumps who needed to be bolused) | 65 | 0 | 0 |
| 2017-2018 | 2143 | 1620 | 540 (plus 1 student with an insulin pump who needs to be bolused) | 59 | 0 | 0 |

Medications administration this year: does not include unscheduled medications.

900 per year Average of 5 per day at LWJSHS

1,243 per year Average of 7 per day at MES

Total: 2,143 medications given, which includes over-the-counter and prescription medications given as scheduled by a provider. This does not include insulin nor inhaler administration.

Fluoride Program:

Fluoride was distributed to MES students for \$1 per student (Program sponsored by Waupaca County Health and Human Services).

| | MES | MMS |
|-----------|-----|-----|
| 2004-2005 | 194 | 84 |
| 2005-2006 | 204 | 73 |
| 2006-2007 | 220 | 96 |
| 2007-2008 | 195 | 98 |
| 2008-2009 | 192 | 93 |
| 2009-2010 | 158 | 92 |
| 2010-2011 | 238 | |
| 2011-12 | 262 | |
| 2016-2017 | 136 | |
| 2017-2018 | 144 | |

Dental Health Month:

Dr. Reilly, of Manawa Dental Clinic came to Manawa Elementary School to teach students in kindergarten, 1st grade, 2nd grade, 3rd grade, and 4th grade about oral health education.

Seal A Smile:

By partnering with the Waupaca County program, Seal A Smile, dental care was offered to students both at MES and LWJSHS. This service is free of charge for the students. Aimee Bestul ran the program for our district this year. The results of this years first visits are as follows, a second visit was made this spring:

At MES the total number of children participants was 105. 59% of children that utilized the program had medicaid as either primary or secondary insurance. There were 30 children diagnosed with untreated decay: 3 had urgent dental needs and 27 were caught with early needs. In all, 48 students received sealants, 159 sealants in all were performed which is an average of 3 sealants per child. All 105 student participants received fluoride treatment, 352 students received classroom oral health education. 30 children were referred for dental care, 3 of which resulted in urgent dental care received.

At LWJSHS the total number of children participants was 30. 60% of children that utilized the program had medicaid as either primary or secondary insurance. One child was diagnosed with untreated decay, which was caught early. In all, 30 children received sealants, 98 sealants were performed which is an average of 3 sealants per child. All 30 children received chairside oral health education, and 1 child was referred for dental care.

Child Development Days: October 18th

Screened 3 and 4 year old children’s vision and hearing, as well as assessed for health conditions. Manawa Lions Club volunteered with SPOT vision screening tool.

Teenage parents:

Prenatal and parenting education and intervention provided as needed by RN.

Number of Pregnant Students/Students that are Parents

| | |
|-----------|---|
| 2004-2005 | 1 |
| 2005-2006 | 3 |
| 2006-2007 | 2 |
| 2007-2008 | 1 |
| 2008-9 | 1 |
| 2009-2010 | 1 |
| 2010-11 | 2 |
| 2011-12 | 4 |
| 2016-2017 | 0 |
| 2017-2018 | 0 |

Vision screening:

Vision screening is done for grades 4K, K, 1, 3, 5, 7, 9, and other students as referred by teacher or parent request.

| | Screened | Referred |
|------------------|------------|-----------|
| 2010-2011 | 291 | 15 |
| 2011-2012 | 236 | 26 |
| 2016-2017 | 130 at MES | 13 at MES |
| 2017-2018 | 300 | 38 |

Hearing screening:

Hearing screening is done for grades 4K, K, 1, 2, 3, and other students as referred by teacher or parent request.

| MES | Screened | Referred |
|------------------|------------|-----------|
| 2004-2005 | 207 | 3 |
| 2005-2006 | 218 | 5 |
| 2006-2007 | 217 | 6 |
| 2007-2008 | 235 | 4 |
| 2008-2009 | 128 | 4 |
| 2009-2010 | 110 | 5 |
| 2010-2011 | 219 | 3 |
| 2011-2012 | 229 | 22 |
| 2016-2017 | 168 | 12 |
| 2017-2018 | 192 | 11 |

Special Health Needs (requiring frequent RN monitoring/intervention):

Created individualized healthcare plans for all students with severe allergies and health conditions (asthma, allergies, diabetes, seizures, bleeding disorders, cardiac issues, etc).

| | | |
|---|---------------------------|--|
| Other (nondiabetic hypoglycemia, hydrocephalus, muscular dystrophy)= 5 | Seizure Disorder=5 | Severe Allergies (food, insects, medication)=20 |
| Cardiac conditions= 2 | Asthma= 28 | Diabetes =3 |

Calls to EMS for medical emergency:

Two calls this year. One was due to a head injury and the other was due to a severe asthma exacerbation with no inhaler at school

Publicity and Health Awareness: Wrote parent letters for common health issues, concussions, and immunizations for next year. Sent staff appropriate health communication and related websites to view via email. Assisted with running the Frostbite Club this year to increase students health through healthy eating, activity, volunteerism, and time spent with family.

It will be very difficult for me to leave the School District of Manawa, and I have enjoyed my time with the Manawa families, staff, and community members. Please don't hesitate to contact me with further inquiries.

Respectfully submitted,

Olivia Koehn, RN BSN

Works Cited

National Association of School Nurses. (2015, January). *School Nurses Workload: Staffing for Safe Care*. Retrieved June 2017, from School Nurse Net:
<https://schoolnursenet.nasn.org/blogs/nasn-profile/2017/03/13/school-nurse-workload-staffing-for-safe-care>