Virginia School Diabetes Management Protocols

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I. Protocol Statement

The Virginia School Diabetes Management Protocol is a guide to be used to promote & ensure excellence, safety and support for children with diabetes in our schools. This protocol is a collaborative effort between parents/guardians, students, medical providers and school personnel.

This protocol was initially developed by the Health Services Supervisors/Coordinators of the following school districts:

Chesapeake Hampton Newport News Portsmouth Suffolk Virginia Beach Additional input and review provided by: Isle of Wight Norfolk Poquoson Williamsburg

Medical review has been provided by a multispecialty group of Pediatric Endocrinologists and Certified Diabetes Educators from:

Animas Corporation

Carilion Health System Roanoke, VA

Children's Hospital of The King's Daughters Norfolk, VA

Children's National Medical Center Washington, DC

Eastern Virginia Medical School Norfolk, VA

Inova Diabetes Center Northern Virginia

Portsmouth Naval Hospital Portsmouth, VA

University of Virginia Charlottesville, VA

Virginia Commonwealth University Health System/Medical College of VA Richmond, VA

Additional review has been provided by:

The American Diabetes Assoication (national office and local affiliates) Virginia Department of Education Virginia Department of Health

II. Responsibilities for Implementation

A. Parent/Guardian Responsibilities

- 1. Inform the school nurse/school administrator that your child has diabetes when the student enrolls in school or is newly diagnosed.
- 2. Provide accurate emergency contact information and update as necessary.
- 3. Provide the Diabetes Medical Management Plan (DMMP), signed by your child's medical provider and yourself to the school nurse. This plan must be <u>renewed</u> prior to the beginning of each school year.
- 4. Inform school nurse/school administrator of any changes in the student's health status and/or DMMP.
- 5. Provide all supplies and equipment necessary for implementing your child's DMMP. Replenish supplies as needed (within 48 hours of notification).
- 6. Inform the school nurse and other appropriate school staff when the student plans to participate in school-sponsored activities.
- 7. Authorize trained unlicensed school personnel to administer insulin and glucagon in the absence of a registered nurse.
- 8. Teach your child to:
 - a. Understand age-appropriate diabetic care (refer to Student Responsibilities).
 - b. Communicate clearly to adults in authority that he/she has diabetes and is not feeling well.
 - c. Inform you about his/her diabetes management during the school day.
 - d. Wear a medical alert ID at all times.
- 9. Review Checklist for Parents (Appendix A).

B. Student Responsibilities

- 1. Learn age-appropriate diabetic care
- 2. Know the following:
 - a. Who to contact and what to do when having a low or high blood sugar reaction
 - b. What the written school plans says to help manage your diabetes
 - c. When you should check blood glucose levels, give insulin, have a snack, and eat breakfast/ lunch
 - d. Where the diabetes supplies are stored, if you do not carry them, and who to contact when you need to use them
- 3. Take charge of your diabetes care at school as the DMMP allows. This **may** include:
 - a. Monitoring and recording blood glucose levels
 - b. Calculating accurate insulin doses
 - c. Self-administration of insulin/medications
 - d. Proper disposal of needles, lancets, and other supplies properly
 - e. Eating meals and snacks as prescribed
 - f. Treating hypoglycemia and hyperglycemia (low & high blood sugar)
 - g. Carrying and using diabetes equipment and supplies as directed
- 4. Cooperate with school and healthcare personnel who are assisting you with & supervising your diabetes care.

C. Medical Provider Responsibilities

- 1. Complete and sign a *Diabetes Medical Management Plan (DMMP)* for the student prior to the beginning of each school year or anytime an update is needed.
- 2. Authorize trained unlicensed school personnel to administer insulin and glucagon in the absence of a registered nurse.
- 3. Assess student's ability to self-carry, then complete and sign the Self Carry Authorization Form, if appropriate (Part 5 of the DMMP).
- 4. Respond to requests for assistance with medical management in a timely manner or assign appropriate staff from your practice to address school diabetes management as required.

D. School Nurse Responsibilities

- 1. Obtain and review the student's current DMMP from the medical provider and pertinent information from the family.
- 2. Conduct a nursing assessment of the student and develop an Individualized Health Plan (IHP) as indicated (Appendix B&I).
- 3. Participate in the development and implementation of the student's 504, Individualized Educational Program (IEP), or other education plan as indicated.
- 4. Conduct ongoing, periodic assessments of students with diabetes and update the nursing care plan.
- 5. Provide a Quick Reference Emergency Plan and other relevant diabetic information to staff members who have responsibility for the student throughout the school day (Appendix C&I).
- 6. Obtain materials and medical supplies necessary for diabetes care tasks from the parent/guardian and notify the student or parent/guardian when supplies need to be replenished (Appendix A&D).
- 7. Plan and implement diabetes training for the unlicensed assistive personnel (Appendix E).
- 8. Attend annual diabetes training.
- 9. Perform routine and emergency diabetes care tasks including documentation as necessary (Appendix F).
- 10. Promote and encourage independence and self-care consistent with the student's ability, skill, maturity, and developmental level.
- 11. Act as liaison between the school and student's health care provider/team regarding the student's diabetes management at school with parental permission. Resources at each health care provider may differ, but you would expect the following resources to be available:
 - a. Physicians, Nurse Practitioner and or Physician Assistant
 - b. Nurse
 - c. Dietitian
 - d. Certified Diabetes Educator
 - e. Social Worker
 - f. Education Consultant
- 12. Communicate to parent/guardian concerns about the student's diabetes management or health.
- 13. Respect the student's confidentiality and right to privacy.
- 14. Act as an advocate for students to help them meet their diabetes health care needs.
- 15. Maintain current knowledge about federal, state, and local laws and regulation that pertain to managing diabetes at school.
- 16. Review the Nurse's Standard File for Diabetic Students (Appendix ____).

E. School Staff Responsibilities

- 1. Meet with the parent/guardian, to gather information related to the child's diabetes.
- 2. Communicate with the school nurse regarding any concerns about the student.
- Recognize that a change in the student's behavior could be a symptom of blood glucose changes; be prepared to respond to the signs and symptoms of hypoglycemia and hyperglycemia.
- 4. Send another person to the clinic with the child if displaying signs of high or low blood sugar; **Do Not Send Alone.**
- 5. If a student displays symptoms of hypoglycemia, it would be preferred to provide treatment in the classroom and then notify school nurse. Adult accompaniment is required if symptoms are present and child must leave the classroom for treatment. If possible, school nurse/clinic should be notified that student is coming to clinic.
- 6. Respect the student's confidentiality and right to privacy.
- 7. Provide a supportive environment for the student to manage diabetes effectively and safely at school, which may include:
 - a. Eating snacks for routine diabetes management
 - b. Having bathroom privileges and access to drinking water
 - c. Monitoring blood glucose
 - d. Administering insulin and other medications
- 8. Provide accommodations for the student with diabetes, as indicated in the student's IHP, 504 plan, IEP, or other education plan (Appendix H).
- 9. Learn about diabetes from your school nurse.
- 10. Notify the parents/guardians and school nurse **in advance** of changes in school schedule, such as class parties, field trips, and other special events.
- 11. Provide information for substitute teachers/nurses that communicates the needs of the student.

III. Virginia School Diabetes Medical Management Plan

A. Part 1. Parent/Guardian Information includes Parent Authorizations for Trained School Designees

This form is distributed by the school nurse/clinic and is to be completed by the parent or guardian. The information in this form provides helpful information for completing the Individualized Health Plan. This form is required by the State of Virginia Board of Education as required by law to determine parent/guardian permission or denial of permission for administration of insulin and/or glucagon by trained unlicensed personnel. This form does not require any involvement from the healthcare provider's office.

B. Part 2. Physician Orders and Authorizations

Children with diabetes receiving care at Children's Hospital of The King's Daughters, Portsmouth Naval Hospital and the Medical College of Virginia have agreed to use the forms included in this document. They may complete the forms electronically, in writing or a combination of both. Parents/guardians should request or obtain these completed forms from their physician and are required to sign these forms to authorize communication between the healthcare provider's office and the school. School forms will not automatically be sent to the school without the caregivers request. The forms should then be brought to the school by the child's caregiver. If another physician's office prefers to use his/her own Diabetes Medical Management Plan it must include all of the elements in this form (copies of these form may be shared electronically or by printing to any healthcare provider or family). Please note that physician authorization for treatment by trained school designees must be included in the Diabetes Medical Management Plan or a separate form must be provided. Healthcare providers are aware that children may be restricted from attending school if these forms are not provided to the school, but cannot be held responsible if the forms are not delivered to the school by the caregiver. Providers may make changes to these orders during the school year and are permitted to send only the applicable page requiring changes (the entire order set is not required and new caregiver signatures are not required with changes). New forms are required on an annual basis.

C. Part 3. Plan Supplement for Student Wearing Insulin Pump

If the child wears an insulin pump this supplemental form should be completed by the physician <u>and</u> caregiver. Portions of this form will be completed by the parent/guardian after the healthcare provider initiates the sections requiring orders. This form has been developed to help provide information regarding the child's proficiency in operating their insulin pump and to provide information on areas of operation where they will require assistance or supervision. Parents/caregivers are required to provide adequate instruction, manuals and supplies to support pump therapy use in the school.

D. Part 4. Permission to Self-Carry

If a child is going to carry and self administer insulin and perform blood sugar checks in the classroom; an "Authorization to Carry and Self-Administer Medication Form" must be completed by the physician, school nurse and the parent. As explained on the form, the school has the option to revoke this privilege if adherence to school rules or guidelines is not demonstrated by the student.

IV. Exercise Guidelines

Exercise and physical activity are beneficial for all children. Children who have diabetes especially benefit from exercise because physical activity can help to lower blood glucose levels. All children with diabetes can participate fully in physical education classes and team sports. In order to maintain blood glucose levels in target ranges, adjustments may need to be made to insulin and food intake. It is also important to check blood glucose levels more frequently while being active to prevent hypoglycemia.

Important Things to Know About Exercise and Diabetes

- Do NOT exercise if you have moderate or large ketones.
- Exercise may cause low blood sugars.
- The effects of exercise on blood sugar lowering can last for up to 24 hours as glycogen stores are repleted in the muscles.
- Exercise may cause high blood sugars due to adrenaline output.
- All kids should aim for at least 30 minutes of daily activity at least 5 days per week.
- Blood sugar should be checked before, during, and after activity as needed.

Suggestions for Safe Exercise in the Child with Diabetes

- Check blood sugar before exercise.
- Check ketones prior to exercise if blood sugar is >300.
- Remember that everyone reacts differently to exercise. The only way to learn how your child reacts is to check blood sugars more frequently during activity.
- Eat a snack before exercise if needed. A good rule of thumb is 15 grams of carbohydrate for every 30 minutes of vigorous activity. Protein may be needed if the activity will be continued over a longer period of time.
- Always have extra snacks on hand.
- Carry a fast acting sugar to treat hypoglycemia.
- Be sure there is a current glucagon kit handy in case of emergency.
- Do not correct a high blood sugar immediately after exercise.
- Drink extra water or sugar-free fluids before exercising. A good rule of thumb is 8 oz for every 30 minutes of vigorous activity.
- Do not exercise alone.
- Wear a diabetes ID bracelet or necklace.
- Consider the injection site and type of activity. Insulin will be absorbed more quickly if given in a spot that will be used during the activity. For example, avoid the leg if child will be running or avoid the arm if child will be playing tennis. The stomach is usually a good site for pre-exercise injections.
- Think about peak action times of insulin and adjust insulin doses as needed to prevent hypoglycemia.





Mark Ge	eneral guide	lines for extra food to	o cover exercise
Expected length of exercise	Blood sugar before exercise	Extra carbohydrate	Example of foods
Short (15-30 minutes)	Less than 80	15-20 grams	1 cup Gatorade <i>or</i> 1 cup milk <i>or</i> ½ cup juice
Examples: walking, stretching	80-150	15 grams	Small piece fresh fruit
, C	Greater than 150	None	None
Moderate (30-120 minutes) Examples:	Less than 80	25-30 grams (include source of protein/fat)	1 cup Gatorade <i>or</i> 1 cup milk <i>or</i> ½ cup juice plus ½ sandwich
swimming, jogging, dancing, baseball	80-150	25-30 grams (include source of protein/fat)	1 cup Gatorade <i>or</i> 1 cup milk <i>or</i> ½ cup juice plus small piece of fruit
	Greater than 150	15 grams (include source of protein /fat)	1/2 sandwich
Long (2 hours or more) Examples: football, basketball, soccer, hockey	Less than 80	30-40 grams initially, then 15 grams every hour (include source of protein/fat initially)	4-8 oz Gatorade plus whole sandwichthen 8 oz Gatorade or 4 oz juice every hour
	80-150	20-30 grams initially, then 15 grams every hour (include source of protein/fat initially)	4-8 oz Gatorade plus ½ sandwich then 8 oz Gatorade or 4 oz juice every hour
	Greater than 150	15-20 grams initially then 15 grams every hour (include source of protein/fat initially)	Whole sandwich then 8 oz Gatorade every hour

Adapted from: Understanding Diabetes, 11th Edition

V. Field Trips

A student may not be excluded from field trips and other school-sponsored activities due to his/her diabetes. The same care provided at school should travel with them on field trips.

The written documents that need to be consulted when preparing a student with diabetes for a field trip are (not every student will have all of these):

- A. Diabetes Medical Management Plan (DMMP)
- B. Individualized Health Plan (IHP)
- C. Section 504 Plan
- D. Individualized Education Program (IEP)

It is important to make provisions for field trips in one of the above documents. This would ensure a smooth and safe transition from classroom to an off-site learning environment. The provisions should include who will assist the student on the field trip with his/her diabetes care. Well in advance, a field trip schedule should be provided to the parent and school nurse.

Supply checklist for field trip (What should school personnel bring as a minimum?):

- Copy of the DMMP
- Fast-acting carbohydrate
- Blood glucose testing equipment & supplies
- Insulin & insulin delivery system (pens & pen needles, syringes, etc)
- Ketone Strips
- Glucagon Kit
- Pump supplies, if applicable
- Extra batteries for meter, pump, etc., if applicable
- Additional supplies and insulin in case of delay in returning to school
- Cell phone to call for help if needed
- Emergency contact information

VI. REFERENCES/RECOMMENDED RESOURCES

Betschart, Jean: **It's Time to Learn About Diabetes**. A Workbook on Diabetes for Children. 1995.

Brennan, Clara and Mary Clark: **Computerized Classroom Health Care Plans for School Nurses,** Fourth Edition, 2007.

Chase, Peter: **A First Book for Understanding Diabetes**, Companion to the 11th Edition of "Understanding Diabetes". Children's Diabetes Foundation, 2007.*

Chase, Peter: Understanding Diabetes, 11th Edition. Children's Diabetes Foundation, 2006.*

Chase, Peter: **Understanding Insulin Pumps & Continuous Glucose Monitors,** First Edition, Children's Diabetes Foundation, 2007.*

Children's Diabetes Foundation at Denver: www.childrensdiabetesfdn.com

Children with Diabetes: www.childrenwithdiabetes.com

Diabetes Care Tasks at School: What Key Personnel Need to Know School Training Modules (American Diabetes Association Safe at School). PowerPoint Modules may be accessed by going to <u>www.diabetes.org/schooltraining</u>

For Schools, American Diabetes Association, www.diabetes.org/for-parents-and-kids/for-schools

Gosselin, Kim, Taking Diabetes to School: 1998.

Helping the Student with Diabetes Succeed: A Guide for School Personnel. A Joint program of the National Institutes of Health and the Centers for Disease Control and Prevention, the National Diabetes Education program, American Diabetes Association, June 2003. www.ndep.nih.gov

Hendel, Elisa: A Child in Your Care Has Diabetes: A collection of Information, 3rd Edition.

Manual for Training Public School Employees In the Administration of Insulin and Glucagon, September 1999, Virginia Department of Education, division of Instruction, Office of Special Education and Student Services.

Partners for Success: School Nurses and the Care of Children with Diabetes at School. School of Public Health, State University of New York at Albany. DVD available from the American Diabetes Association.

Successful Pumping in the School. Animas Corporation 2007-2008. May be accessed by going to <u>www.animascorp.com/nursetraining</u>.

*These references can be accessed online in view only format at: <u>www.barbaradaviscenter.org</u> (click on Online Books & Teaching Slides).

VII. Appendices

- A. Target Blood Glucose Goals by Age (ADA)
- **B.** Accommodations to Consider
- C. Checklist for Parents/School Checklist
- **D.** Supply List for Insulin Pumps
- E. Continuous Glucose Sensors/Continuous Glucose Monitoring Systems
- F. Quick Reference Emergency Plan for Hyper/Hypoglycemia
- G. Insulin Injection Training & Dose Calculations
- H. Hypoglycemia and Glucagon Injection Training
- I. Individualized Healthcare Plan
- J. Nurse's Standard File for Diabetic Students
- K. Diabetes Treatment Log
- L. Documentation of Communication Checklist
- M. Forms
 - 1. Parent/Guardian includes Parent Authorizations for Trained School Designees
 - 2. Physician Orders and Authorizations (DMMP)
 - 3. Plan Supplement for Student Wearing Insulin Pump
 - 4. Permission to Self-Carry

A. Target Blood Glucose Goals by Age (ADA)

Table 15—Plasma blood glucose and A1C goals for type 1 diabetes by age-group

	Plasma blood glucose goal range (mg/dl)			
Values by age (years)	Before meals	Bedtime/ overnight	 A1C	Rationale
Toddlers and preschoolers (0–6)	100–180	110–200	<8.5% (but >7.5%)	High risk and vulnerability to hypoglycemia
School age (6–12)	90–180	100–180	<8%	Risks of hypoglycemia and relatively low risk of complications prior to puberty
Adolescents and young adults (13–19)	90–130	90–150	<7.5%	 Risk of severe hypoglycemia Developmental and psychological issues A lower goal (_7.0%) is reasonable if it can be achieved without excessive hypoglycemia

Key concepts in setting glycemic goals:

• Goals should be individualized and lower goals may be reasonable based on benefit-risk assessment.

• Blood glucose goals should be higher than those listed above in children with frequent hypoglycemia or hypoglycemia unawareness.

• Postprandial blood glucose values should be measured when there is a discrepancy between pre-prandial blood glucose values and A1C levels.

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B. Accommodations to Consider

Accommodations Recommended For Students with Diabetes

- Will be able to keep a bottle of water with them at all times
- Will be able to have unlimited access to restrooms
- Will be able to eat a snack in the classroom
- Will be able to eat snacks and meals at the same time each day, if applicable. Should
- there be any change in this routine, the parent will be notified
- Will be allowed to leave the classroom for diabetes related issues
- Will be accompanied when leaving the classroom, as needed
- Will have access to all diabetes related supplies
- Will be supervised by a staff member when administering insulin to verify that the correct dosage has been given
- Will be totally independent and need no adult supervision for diabetes care, including insulin calculation and injection; the physician and parent will document and sign in the diabetes plan of care to include permission for self carry
- Will be monitored in elementary school by a staff member to determine amount of food eaten and that no food is shared with other children
- Will be able to participate fully in physical education classes and other activities as determined by the DMMP
- Will be able to test their blood glucose levels before all examinations and standardized tests
- Will not be penalized for time spent on diabetes care when taking an exam or completing a classroom assignment
- Will not be penalized for diabetes related absences

C. Checklist for Parents/School Checklist

DIABETES SCHOOL CHECKLIST

- Read "Parental Responsibilities"
- □ Read and discuss "Student with Diabetes Responsibilities" with student
- Have the student's Doctor complete the "Diabetic Medical Management Plan", Parts I, II, and if necessary Part III (Pump Management)
- Discuss specific care of your child with the teachers, school nurse, bus driver, coaches and other staff who will be involved.
- Complete the individualized school health plan with the help of the school staff and your diabetes care team.
- Make sure your child understands the details of who will help him/her with testing, shots and treatment of high or low blood sugars at school and where supplies will be kept. Supplies should be kept in a place where they are always available if needed.
- Make arrangements for the school to send home blood sugar records Weekly (or fax to MD office).
- Keep current phone numbers where you can be reached. Complete a medical release giving the school written permission to contact the child's healthcare provider in the event of an emergency. Complete release for administration of glucagon by trained, unlicensed personnel.
- □ Collect equipment / supplies for school including the following:
 - Box with the child's name to store these items (you may need one for meds and one for food).
 - Medical Identification
 - Meter
 - o Strips
 - Lancets & Device
 - o Insulin
 - Syringes or pens & pen needles
 - Alcohol wipes
 - Glucagon Kit with instructions
 - Ketone testing strips
 - Sharps container

0

 Log sheets for blood sugars

- **Pump supplies**
- Batteries for meter &/or pump
- Food/Drinks for treating Low Blood Sugar
 - 15 gm CHO Juice cans or boxes
 - Glucose tabs
 - Instant glucose or cake decorating gel
 - Fruit-Roll Ups
 - Dried Fruit, raisins or other snacks
 - Crackers (± peanut butter and/or cheese)
- Check regularly to make sure school has all necessary supplies (suggest monthly as a minimum).

D. Supply List for Insulin Pumps

Supply List for Insulin Pumps

- Blood glucose monitoring device, test strips, lancets
- _____ Sharps Container
- _____ Extra meter battery
- _____ Extra pump battery
- _____ Insulin and syringes
- Extra infusion sets, reservoirs/cartridges and insertion device (or extra Pods)
- _____ Alcohol pads
- _____ Dressing and tape (or other adhesive)
- _____ Glucose tablets/instant glucose
- _____ Glucagon emergency kit
- _____ Ketone test strips

E. Continuous Glucose Sensors

Continuous Glucose Monitoring (CGM) In The School:

A continuous glucose monitor reads glucose levels from a sensor in the interstitial fluid (under the skin/subcutaneous). It usually reads within 15-20% of a finger stick blood glucose value. The monitor can be programmed to alert (vibrate or alarm audibly) for predetermined high and low glucose levels. CGM is meant to provide additional glucose information and does not take the place of finger stick blood glucose values. It is not FDA approved for use in making diabetes treatment decisions.

Always make sure that hands are clean and check a blood glucose via finger stick before performing treatment.

Alert Settings

CGM will alarm if interstitial glucose is less than _____mg/dl or above _____. If CGM alarms for low or high glucose levels, check finger stick blood sugar and treat according to the DMMP/Physician Orders.

<u>Arrows</u>

Some continuous monitors show arrows on the screen to indicate the speed at which the glucose levels are changing. Arrows on the face of the monitor may point straight down, indicating a rapidly falling glucose level. Treatment should then be as in A. 2. below. The arrows may also point straight up, which means a rapid increase in glucose level. Treatment should be as in C. Below. A horizontal or 45 degree arrow (or one arrow in contrast to two arrows) may mean that the glucose level is not changing as rapidly.

When to Use CGM Information

A. Lows or Pending Lows

1. CGM screen shows <70 mg/dl with or without arrow(s):

Check finger stick blood glucose and if low proceed with physician's care plan for treatment and food. Repeat blood glucose every 15 minutes until level is above 70 mg/dl.

2. CGM Screen shows <100 mg/dl with downward arrow(s):

Check finger stick blood blucose. If blood sugar is between 70 and 100 mg/dl give 5-10 grams of carbohydrate (to prevent blood sugar from going lower). If <70 mg/dl proceed with physician's care plan for treatment and food as above.

B. Glucose Levels in Target Range

1. CGM screen shows 80-200 mg/dl with or without arrow(s):

Check finger stick blood glucose as usual per DMMP or if symptomatic.

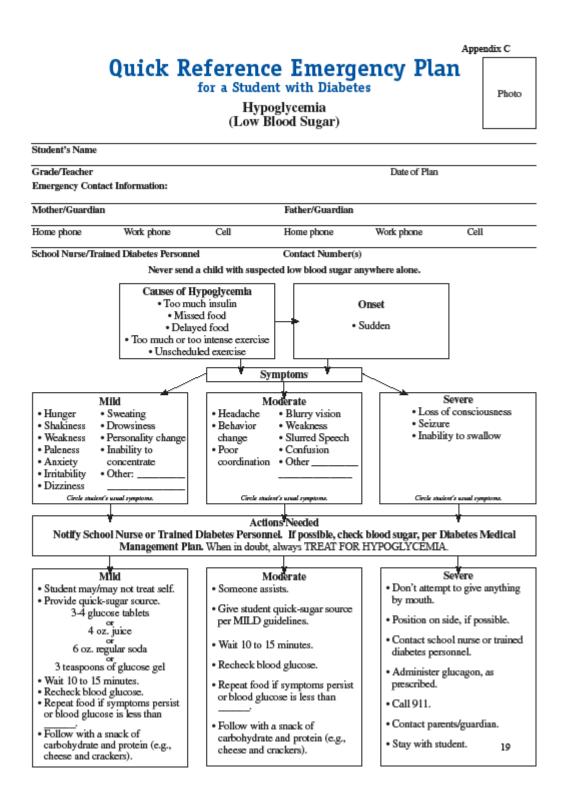
C. Highs or Pending Highs

1. CGM screen shows >200 mg/dl with upward arrow(s) or >250 mg/dl:

Check finger stick blood glucose and follow physician's DMMP for treatment of high glucose including instructions for checking ketones, calling physician or parents and providing correction insulin.

F. Quick Reference Emergency Plan for Hyper/Hypoglycemia

Double-click on the link below (or paste the link into your web browser) to display PDF of Hypoglycemia & Hyperglycemia Flow Charts for reference or printing (page 61-62). http://www.ndep.nih.gov/diabetes/pubs/Youth_NDEPSchoolGuide.pdf



G. Insulin Injection Training & Dose Calculations

Hampton Roads Regional School Diabetes Management Protocol

Insulin Injection Training & Dose Calculations

Employee Receiving Training: _____

School: _____

Trainer/Evaluator: _____

PERF	ORMANCE CRITERIA	DATE:	INITIALS OF EVALUATOR
1.	Describes situations that insulin is necessary. States storage and security of insulin and syringes and medical supplies.		
2.	Locates student's care plan and determines correct insulin dose and time insulin is to be administered. Demonstrates ability to accurately perform insulin dose calculations.		
3.	States 5 "Rights" of medication administration.		
4.	Accurately measures insulin dose using a syringe and an insulin pen. Practice of 2 units, 5.5 units, 7 units.		
5.	Locates injection site to be used.		
6.	Demonstrates accurate injection technique.		
7.	States precautions to take after insulin is administered.		
8.	Discuss proper disposal of medical supplies.		
Traine	er/Evaluator (signature):	[Date:

Employee (signature): _____ Date: _____

H. Hypoglycemia & Glucagon Training

Hampton Roads Regional School Diabetes Management Protocol

Hypoglycemia & Glucagon Training

Employee Receiving Training: _____

School: _____

Trainer/Evaluator: _____

PERFORMANCE CRIT	ERIA	DATE:	INITIALS OF EVALUATOR
1. Describes sympto	ms of hypoglycemia.		
 Discuss appropria moderate, and sev 	te treatment for mild, /ere hypoglycemia.		
 States situations v kit should be used 	vhen glucagon emergency		
from vial. States v	and withdraws glucagon vhere to find correct student (0.05 & 1.0 mg).		
Locates injection s	site to be used.		
Demonstrates acc	urate injection technique.		
Turn on side. Che	o take when using glucagon: ck MD order for dose. call school nurse and		
repeated if patient waiting for emerge Intravenous gluco	gon injection may be fails to respond while ency assistance. se MUST be administered if respond to glucagon.		
 Discuss that when food or fluids shou recurrent hypoglyc 	child is able to swallow, Id be given to prevent cemia.		
REN	IEMBER: THERE IS NO D	ANGER OF	OVERDOSE
GL	UCAGON <u>CAN</u> BE GIVEN ⁻	THROUGH (CLOTHING.

Trainer/Evaluator (signature): _____ Date: _____

Employee (signature): _____ Date: _____

I. Individualized Healthcare Plan

INDIVIDUALIZED HEALTH CARE PLAN

Below are suggested resources that can be used to develop an Individualized Health Care Plan (IHP). It is best practice to develop an IHP that includes specifics of care and addresses particulars that are not included in the DMMP, such as field trip accommodations, training of staff in diabetes, specific times to test blood sugars, etc. It is a plan that should be provided to teachers and other staff members that are directly involved with the diabetic student.

- Arnold, Martha and Cynthia Silkworth: **The School Nurse's Source Book of Individualized Healthcare Plans,** Volume I & II, 1999.
- Brennan, Clara and Mary Clark: **Computerized Classroom Health Care Plans** for School Nurses, Fourth Edition, 2007.

J. Nurse's Standard File for Diabetic Students

Nurse's Standard File for Diabetic Students

- ____ Current Diabetes Medical Management Plan
- ____ Current IHP, 504 and/or IEP
- _____ Permission to Self Carry, if applicable
- _____ Quick Reference Emergency Plan
- _____ Emergency Contact Information
- _____ Copy of Student's Schedule
- _____ Diabetes Treatment Log, if indicated

Other items to have on hand in the clinic:

- Quick reference chart on hyper/hypo-glycemia (to share with teachers, etc.)
- CHO Counting Reference Book
- Information on CHO counts in cafeteria foods from Food Services
- Copy of menu for the month
- Pump Reference/Manual if applicable

K. Diabetes Treatment Log

DIABETES TREATMENT LOG

STUDEN PARENT/	T: /GUARDIA	SCHOO N TELEPHONE #: HOM	DL: 1E:	G	RADE:	TEAC WORK/C	:HER: ELL:	_ ROOM#:	
Target GI	ucose:								
SIGNATU SIGNATU	JRE/TITLE/ JRE/TITLE/	/INITIALS /INITIALS		SIG SIG	NATURE NATURE	/TITLE/INIT /TITLE/INIT	TIALS		
DATE	TIME	SYMPTOMS	BLOOD GLUCOSE	KETONES (Negative, Trace, small, moderate or large)	Carbs	INSULIN DOSE	ACTION	INIT	IALS

L. Documentation of Communication

Documentation Checklist for Information Shared with Staff Members

Name of Student:	DOB:
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M. School Forms

- Parent/Guardian includes Parent Authorizations for Trained School Designees
 Physician Orders and Authorizations (DMMP)
 Plan Supplement for Student Wearing Insulin Pump
 Permission to Self-Carry

III. Hampton Roads Regional School Diabetes Medical Management Forms

Student	School	Effective Date
Date of Birth	Grade	Homeroom Teacher

Dear Parent/Guardian:

- 1. **Part 1** Medical history and contact information. To be completed by parent/guardian. Includes: Parent authorization for trained school designees. To be completed by parent/guardian.
- Part 2*- Have your child's physician complete unless the physician's office prefers to use his/her own *Diabetes Medical Management Plan*. Please note that physician authorization for treatment by trained school designees must be included in the Diabetes Medical Management Plan or a separate form must be provided.
- 3. **Part 3*-** Have the physician/diabetes educator/caregiver complete if your child wears an insulin pump.
- 4. **Part 4-** If your child is going to carry and self administer insulin and perform blood sugar checks in the classroom; an "*Authorization to Carry and Self-Administer Medication Form*" must be completed by the physician, school nurse and the parent.

*Other Diabetic Medical Management Plans may be used for **Parts 2 & 3** as long as all components are represented.

Return completed forms to the school nurse as quickly as possible. Thank you for your cooperation.

School nurse_

e	Phone	Date

Please note: during the school year, in order to change your child's diabetes care at school, an updated physician's order must be submitted to the school nurse.

Part 1: Parent/Guardian to complete:

Contact Information:

Address: Telephone-Home:	Work:	Cell:	
Parent/Guardian #2:			
Address:			
Telephone-Home:	Work:	Cell:	
Other emergency contact:			
Address:		Relationship:	
Telephone-Home:	Work:	Cell:	

Auuress			
Main Office #	Fax #	Emergency Phone #	
Nurse/Diabetes Educator		Work #	

Diabetes Questions	Parent/Guardian Response (check appropriate boxes and complete blanks)
Diagnosis information	At what age? Type of diabetes?
How often is child seen by this physician? Include date last seen.	
Nutritional needs	 ♦ Snack □AM □PM □Prior to Exercise/Activity □ Only in case of low blood glucose □ Student may determine if CHO counting

	In the event of a class party may eat the treat (include insulin coverage if indicated in medical orders)
	student able to determine whether to eat the treat
	replace with parent supplied treat
	may NOT eat the treat
	□ other
Child's most common	trembling tingling loss of coordination
signs of low blood	dizziness moist skin/sweating slurred speech
glucose	heart pounding hunger
	weakness fatigue seizure
	□ pale skin □ headache □ unconsciousness
	change in mood or behavior other
How often does child	Mild 🗅 once a day 🗋 once a week 📮 once a month
experience low blood	Indicate date(s) of last mild episode(s)
glucose and how	
severe?	Severe (i.e. unconscious, unable to swallow, seizure, or needed Glucagon)
	Include date(s) of recent episode(s)
Episode(s) of	Include date(s) of recent episode(s)
ketoacidosis	
Field trips	Parent/guardian will accompany child during field trips?
	YES NO Yes, if available
Serious illness, injuries	Date(s) and describe
or hospitalizations this	
past year	
List any other	
medications currently being taken	
Allergies (include foods,	
medications, etc):	
medications, etc).	
Other concerns and	
comments	
supervision of the school i Medical Management Plan	chool nurse and designated school personnel [*] , who have been trained and are under the nurse to perform and carry out the diabetes care tasks as outlined in my child's <i>Diabetes</i> as ordered by the physician. I give permission to the designated school personnel, who m the following diabetes care tasks for my child. (Code of Virginia§ 22.1-274).

NO Glucagon Administration YES

☐ YES

□ NO

I understand that I am to provide all supplies to the school necessary for the treatment of my child's diabetes. I also consent to the release of information contained in the Diabetes Medical Management Plan to staff members and other adults who have custodial care of my child and who may need to know this information to maintain my child's health and safety. I also give permission to contact the above named physician and members of the diabetes management team regarding my child's diabetes should the need arise.

Parent/Guardian Name	Date
Parent/Guardian Signature	
-	
School Nurse's Name	Date
School Nurse's Signature	

*Note: If at any time you would like to have the names of the designated school personnel that have been trained, please contact the school nurse. Names and training records are kept in the school clinic.

601 Children's Lane, Norfolk, Virginia 23507-1910

DIABETES CENTER MEDICAL MANAGEMENT PLAN DIABETES-INTENSIVE THERAPY

Patient Label or MRN, Acct#, Patient Name, DOB, Date of Service

Page 1 of 3

Part 2: Virginia Diabetes Medical Management Plan (DMMP)

All schools in the following School Districts will accept these forms: Chesapeake, Hampton, Isle of Wight, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg

<u>Notice to Parents</u>: Medication(s) **MUST** be brought to school by the PARENT/LEGAL GUARDIAN in a container that is appropriately labeled by the pharmacy or physician/practitioner.

It is desirable that medication not be administered during school hours. However, in order for schools to safely administer medication during school hours, the following regulations should be observed:

- 1. Written orders using this form from a physician, nurse practitioner, physician assistant or dentist must detail the name of the drug, the dosage, and the interval of medication administration.
- 2. The parent/legal guardian requesting that the school district comply with the physician/ nurse practitioner/dentist's order must review the form with provider and school officials and sign the form.
- 3. Unopened, over-the-counter medication can be labeled by the school nurse if all other criteria for administration of the medication are stated.
- A new copy of the DMMP must be completed at the beginning of each school year. This form, an Authorization for Medication Administration form, or MD prescription must be received in order to change diabetes care at school during the school year.

Student Name (Last, First, MI)	Student's Date of Birth	
School	Student's Grade Grade	Home Phone
Parent Name	Work/Cell Phone	
Home Address	City	State, Zip code
Student's Diagnosis: DIABETES: Type 1 Type 2	Today's Date 4/19/2013	•

		MONITORING		
BLOOD GLUCOSE (MONITORING lancing device, and test	eter, lancets,	Yes No	PRN 1 anytin Befor After	e meals for symptoms of hypo/hyperglycemia & ne the student does not feel well e PE/Activity PE/Activity onal BG monitoring may be performed at t's request
<u>URINE/BLOOD KET</u> <u>TESTING</u>	<u>ONE</u>	Anytime the BG > 300 mg/dL or when student complains of nausea, vomiting, abdominal pain	866-883	te or large ketones: Immediately call 3-9886. r small ketones: increase fluids
NAME OF MED	ICATION	DOSE/ROUTE		TIME
GLUCAGON - INJEC	TABLE	☐ 0.5 mg subq/IM ☐ 1.0 mg subq/IM		STAT for severe hypoglycemia, loss of consciousness or seizure
GLUCOSE TABLET LIFE SAVER® CANI JUICE/SODA or GLUCOSE GEL		3-4 GLUCOSE TABLETS 6 LIFE SAVER® CANDIES 4 OUNCES JUICE/SODA 1 SMALL TUBE		Anytime BG is < 80 mg/dL and conscious – follow attached Diabetes Plan for Hypoglycemia
Specific duration of order: 2008-2009 SCHOOL YEAR	Physician Signatur	e:: Provider Printed Name: Kent Reifschneider. I	MD	Office Phone: 757-668-7237 Office Fax: 757-668-8215 Emergency # 866-883-9886
medications as prescribed	in these orders. I all r regarding these ord	itor my child's diabetes and to administer th lso give permission for the school to contac ders and administration of these medication	t the	Date: 04/19/2013

CHKD Form 2099 MR Rev 7/08 FDB: Diabetes Center

601 Children's Lane, Norfolk, Virginia 23507-1910

DIABETES CENTER MEDICAL MANAGEMENT PLAN DIABETES-INTENSIVE THERAPY

Page 2 of 3

Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

SCHOOL YEAR 2008-2009 DIABETES SCHOOL CARE PLAN for Intensive Therapy/Multiple Daily Injections

Effective date: 4/19/2013

Definitions

Insulin-to-Carbohydrate Ratio (CHO Ratio)	Insulin Sensitivity (Correction Factor)	Target Blood Glucose
 the amount of insulin necessary to prevent hyperglycemia after ingestion of a specified amount of carbohydrate 	 the predicted drop in blood glucose concentration after administration of 1 unit of regular or rapid-acting insulin 	 a specific blood glucose value used to determine the correction dose of
usually expressed as "1 unit for every grams of carbohydrate"	 usually expressed as "1 unit for every mg/dl blood glucose is > target" 	insulin administered with a meal

	INSULIN
Insulin to be given during school hours:	No Student can administer insulin if supervised
Rapid-acting Insulin Type: Humalog [®] (all doses to be administered subcutaneously)	Timing of Insulin Dose: Rapid-acting Insulin should always be given prior to
Lantus [®] units atam or pm may mix with rapid-acting insulin (all doses to be administered subcutaneously)	☑ meals ☑ snacks if CHO intake can be predetermined. If CHO intake cannot be predetermined insulin should be given no more than 30 minutes after completion of meal/snack. Treat hypoglycemia before administration of meal or snack insulin.
	eded) - the student requires meal time coverage with rapid-acting insulin based on

the amount of carbohydrates in meal and may require additional insulin to correct blood glucose to the desired range according to the following formula:

Mealtime insulin = [(Pre-meal BG – Target pre-meal BG)/Correction Factor] + [# carbohydrates consumed/CHO Ratio]

Target pre-meal BG: 120	Correction Factor/Sensitivity: 1 unit for every 50 > 120
CHO Ratio: 1:15	Exercise/PE CHO Ratio: NA

Correction insulin to be administered for elevated blood glucose if 3 hours or more after last insulin dose

- Fractional amounts of insulin from correction and carbohydrate calculation, when added together, may yield an even amount of insulin
- If uneven, then round to the nearest **half unit** (May use clinical discretion; if physical activity follows meal, then may round down). If on insulin pump, use calculation result provided by pump calculator for doses unless set or pump malfunction occurs.
- A weaker CHO Ratio may be required with meals prior to physical activity in order to prevent hypoglycemia. If so, the Exercise/PE CHO Ratio should be used instead of the CHO Ratio.

Snacks

- In general, children with diabetes managed using Intensive Therapy/MDI do not require snacks.
- Scheduled snacks may be required prior to or after exercise in order to prevent hypoglycemia. Insulin is not administered with these snacks.

🛛 Before Exercise

After Exercise

- Foods may be eaten at unscheduled times. Insulin may be ordered for these snacks in order to prevent post-meal hyperglycemia (see above).
- Snack time insulin = # carbohydrates consumed/CHO Ratio.
- Never provide insulin coverage for carbohydrate/glucose being used to treat hypoglycemia.

Exercise and Sports

- In general, there are no restrictions on activity.
- A student should not exercise if his/her blood glucose is < 80 mg/dL or > 300 mg/dL (with positive ketones) immediately prior to exercise or until hypoglycemia/hyperglycemia is resolved.
- A source of fast-acting glucose should be available in case of hypoglycemia.
- Special Instructions:

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DIABETES CENTER MEDICAL MANAGEMENT PLAN DIABETES-INTENSIVE THERAPY

Page 3 of 3

Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

SCHOOL YEAR 2008-2009 DIABETES SCHOOL CARE PLAN for DIABETES MANAGEMENT STANDARD PRACTICE Effective date: 4/19/2013

Hypoglycemia (Low Blood Sugar)

Hypoglycemia is defined as a blood glucose < 70 mg/dL

Signs of hypoglycemia:

Shakiness	Sweating	Paleness	Dizziness
Confusion	Anger	Fighting	Crying
Day-dreaming	Inability to concentrate	Passing-out	Seizure

• If hypoglycemia is suspected, check the blood glucose concentration.

If unable to raise the BG > 70 mg/dL despite fast-acting glucose sources, call 866-883-9886.

Hyperglycemia (High Blood Sugar)

Hyperglycemia is defined as a blood glucose above the blood glucose target

Signs of hyperglycemia:	Extreme thirst	Frequent urination	Hunger	Headache
	Nausea	Hyperactivity	Dizziness	Stomach ache

• If hyperglycemia is suspected, check the blood glucose concentration.

Management of Hyperglycemia	If BG > 300 mg/dL, or when child complains of nausea, vomiting, and/or abdominal pain, ask the student to check his/her urine for ketones
	 If urine ketones are trace or negative, give 8-16 ounces of sugar-free fluid (water) If correction insulin has not been administered within 3 hours, provide correction insulin according to student's Correction Factor and Target pre-meal BG Recheck BG and ketones 2 hours after administering insulin
	 If urine ketones are moderate/large, give 8-16 ounces of sugar-free fluid (water) and call 866-883-9886 for instructions concerning insulin administration. Contact the Parent/Legal Guardian. Recheck BG and ketones 2 hours after administering insulin

My signature below provides authorization for the above written orders. I/We understand that all treatments and procedures may be performed by the school nurse, the student and / or trained unlicensed designated school personnel under the training and supervision provided by the school nurse (or by EMS in the event of loss of consciousness or seizure) in accordance with state laws & regulations.

School plan ordered by:	Provider Signature:	Provider Printed Name: Eric Gyuricsko, MD	Date: 04/19/2013
Acknowledged and received by:	Parent/Legal Guardian:		Date:
Acknowledged and received by:	School Representative:		Date:

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601 Children's Lane, Norfolk, Virginia 23507-1910

DIABETES CENTER MEDICAL MANAGEMENT PLAN DIABETES-CONVENTIONAL THERAPY

Page 1 of 3

Part 2: Virginia Diabetes Medical Management Plan (DMMP)

All schools in the following School Districts will accept these forms: Chesapeake, Hampton, Isle of Wight, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg

<u>Notice to Parents</u>: Medication(s) **MUST** be brought to school by the PARENT/LEGAL GUARDIAN in a container that is appropriately labeled by the pharmacy or physician/practitioner.

in order for schools to safely administer medication during school hours, the following guidelines should be observed:

- 5. Written orders using this form from a physician, nurse practitioner, physician assistant or dentist must detail the name of the drug, the dosage, and the interval of medication administration.
- 6. The parent/legal guardian requesting that the school district comply with the physician/ nurse practitioner/dentist's order must review the form with provider and school officials and sign the form.
- 7. Unopened, over-the-counter medication can be labeled by the school nurse if all other criteria for administration of the medication are stated.
- A new copy of the DMMP must be completed at the beginning of each school year. This form, an Authorization for Medication Administration form, or MD prescription must be received in order to change diabetes care at school during the school year.

Student Name (Last, First, MI)	Student's Date of Birth	
School	Student's Grade:	Home Phone
Parent Name	Work/Cell Phone	
Home Address	City	State, Zip code
Student's Diagnosis: DIABETES: Type 1 Type 2	Today's Date 4/19/2013	•

	MONITORING				
BLOOD GLUCOSE (MONITORING lancing device, and test	eter, lancets,	Yes No Student requires supervision	PRN 1 anytin Befor After	e meals for symptoms of hypo/hyperglycemia & ne the student does not feel well e PE/Activity PE/Activity ional BG monitoring may be performed at t's request	
URINE/BLOOD KETONE TESTING		Anytime the BG > 300 mg/dL or when student complains of nausea, vomiting, abdominal pain	866-883	te or large ketones: Immediately call 3-9886. r small ketones: increase fluids	
NAME OF MED		DOSE/ROUTE		TIME	
GLUCAGON - INJEC	TABLE	0.5 mg subq/IM 1.0 mg subq/IM		STAT for severe hypoglycemia, loss of consciousness or seizure	
GLUCOSE TABLETS or LIFE SAVER® CANDIES or JUICE/SODA or GLUCOSE GEL		3-4 GLUCOSE TABLETS 6 LIFE SAVER® CANDIES 4 OUNCES JUICE/SODA 1 SMALL TUBE		Anytime BG is < 80 mg/dL and conscious – follow attached Diabetes Plan for Hypoglycemia	
Specific duration of order: 2008-2009 SCHOOL YEAR	Physician Signature: Provider Printed Name: Eric Gyuricsko, MD			Office Phone: 757-668-7237 Office Fax: 757-668-8215 Emergency # 866-883-9886	
I hereby give permission for the school to monitor my child's diabetes and to administer the medications as prescribed in these orders. I also give permission for the school to contact the above health care provider regarding these orders and administration of these medications. Parent/Legal Guardian Signature:			Date: 04/19/2013		

CHKD Form 2100 MR Rev 7/08 FDB: Diabetes Center

Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

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DIABETES CENTER MEDICAL MANAGEMENT PLAN DIABETES-CONVENTIONAL THERAPY

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Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

SCHOOL YEAR 2008-2009 DIABETES SCHOOL CARE PLAN for **CONVENTIONAL THERAPY OR TYPE 2 DIABETES**

Effective date: 4/19/2013

Blood Glucose: Target range for blood glucose: 80 mg/dL to 150 mg/dL

INSULIN						
Insulin to be given during school hours	s: 🗌 Yes	🗌 No	Student can admin	ister his/her own insu	ılin	
Insulin Types:		🗌 Meal	Plan:			
Rapid-acting Insulin Type: NovoLog[®]		🗌 ac	according to the following distribution:			
Short-acting Insulin Type: Regular	•		Breakfast: grams			
Intermediate-acting Insulin Type: N		AN	AM Snack: grams			
may mix with rapid or short-actin	g insulin		inch: grams			
Long-acting Insulin Type:		PN	PM Snack: grams			
Lantus [®] units atam	or pm	🗆 In:	sulin:CHO Ratio: 1 unit	for every gr	ams of CHO	
			decrease by 1 unit if pre-lund	ch reading is less than 8		
(all doses to be administered subc	utaneously)		strenuous exercise if anticipa	ated.		
Pre-breakfast dose: Regularu			og® or Apidra® units	NPH units		
Pre-lunch dose: Regular u			og® or Apidra® units	NPH units		
Pre-dinner dose: Regular u	inits Humalog	ge or Novol	og® or Apidra® units			
□Sliding scale to be administered a	t (times)		Insulin Sensitivity (o be	
	nid opting Inquilin (au ha	 administered at the predicted drop in 		ation ofter	
If blood glucose Units of ra	pid-acting Insulin	•	administration of 1 ur	nit of regular or rapid-ac	ting insulin	
give		 usually expressed as "1 unit for everymg/dl blood glucose is > target" 				
give						
give		-	discretion; if physical	activity follows meal, th	en may round down)	
give		- Sensitivity:				
give		- Torret				
			Target:			
	OR	AL MEI	DICATIONS			
NAME OF MEDICATION	DOSAGE	E	TIME	POSSIBLE SIDE EFFECTS	TREATMENT SIDE EFFECTS	
Glucophage [®] (Metformin)	mg	no	AM or PM	Nausea/vomiting,	Clear liquids	
to be administered at school	9	P 0		diarrhea		
Other: ®						
to be administered at school						
Other Instructions:						
Exercise and Sports						

- In general, there are no restrictions on activity.
- A student should not exercise if his/her blood glucose is <100 mg/dL or > 300 mg/dL and ketones are positive.
- A source of fast-acting glucose should be available in case of hypoglycemia.

Specific duration of order: 2008-2009 SCHOOL YEAR	Physician Signature:	Provider Printed Name: Eric Gyuricsko, MD	Office Phone: 757-668-7237 Office Fax: 757-668-8215 Emergency # 866-883-9886
CLIKE Farme 0400 MD Dave	7/00 EDD, Dieketee Center		

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DIABETES CENTER MEDICAL MANAGEMENT PLAN **DIABETES-CONVENTIONAL THERAPY** Page 3 of 3

Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

SCHOOL YEAR 2008-2009 DIABETES SCHOOL CARE PLAN for **DIABETES MANAGEMENT STANDARD PRACTICE** Effective date: 4/19/2013

Hypoglycemia (Low Blood Sugar)

Hypoglycemia is defined as a blood glucose < 80 mg/dL

Signs of hypoglycemia:

Shakiness	Sweating	Paleness	Dizziness
Confusion	Anger	Fighting	Crying
Day-dreaming	Inability to concentrate	Passing-out	Seizure

If hypoglycemia is suspected, check the blood glucose concentration.

	If student unconscious, semi-conscious (unable to control his/her airway), or seizing, administer glucagon.
	 Place student in the "recovery position."
	If glucagon is administered, call 911 for emergency assistance, and call Parents/Legal Guardian.
	If conscious & able to swallow, immediately give 15 gram fast-acting glucose:
	3-4 glucose tablets or
	6 Life Saver® Candies or
Management of Hypoglycemia	6 ounces of regular soda/juice or
	1 small tube Glucose/Cake Mate® gel
	Repeat BG check in 15 minutes
	If BG still low, then re-treat with 15 gram CHO
	If BG in acceptable range and at lunch or snack time, let student eat and cover CHO per orders
	 If BG in acceptable range and not lunch or snack time, provide student slowly-released CHO snack (3-4 peanut butter or cheese crackers)
	If unable to raise the BG > 70 mg/dL despite fast-acting glucose sources, call 866-883-9886.

Hyperglycemia (High Blood Sugar)

Hyperglycemia is defined as a blood glucose above the blood glucose target

Signs of hyperglycemia:	Extreme thirst	Frequent urination	Hunger	Headache
	Nausea	Hyperactivity	Dizziness	Stomach ache

• If hyperglycemia is suspected, check the blood glucose concentration.

Management of Hyperglycemia	If BG > 300 mg/dL, or when child complains of nausea, vomiting, and/or abdominal pain, ask the student to check his/her urine for ketones
	 If urine ketones are trace or negative, give 8-16 ounces of sugar-free fluid (water) If correction insulin has not been administered within 3 hours, provide correction insulin according to student's Correction Factor and Target pre-meal BG Recheck BG and ketones 2 hours after administering insulin
	 If urine ketones are moderate/large, give 8-16 ounces of sugar-free fluid (water) and call 866-883-9886 for instructions concerning insulin administration. Contact the Parent/Legal Guardian. Recheck BG and ketones 2 hours after administering insulin

My signature below provides authorization for the above written orders. I/We understand that all treatments and procedures may be performed by the school nurse, the student and / or trained unlicensed designated school personnel under the training and supervision provided by the school nurse (or by EMS in the event of loss of consciousness or seizure) in accordance with state laws & regulations.

School plan ordered by:	Provider Signature:	Provider Printed Name: Eric Gyuricsko, MD	Date: 04/19/2013
Acknowledged and received by:	Parent/Legal Guardian:		Date:
Acknowledged and received by:	School Representative:		Date:
CHKD Form 2100 MR Rev 7/08 FF	B. Diabates Center		

CHKD Form 2100 MR Rev 7/08 FDB: Diabetes Center

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DIABETES CENTER

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Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

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Part 3: Plan Supplement for Student Wearing Insulin Pump Effective date: 4/19/2013

Student Name: Date of Birth:							
Pump Brand/Model: Animas One Touch Ping™ Pump Company Technical Assistance Number: Animas 1-877-937-786							
Pump Trainer/Resource Person: Phone/Beeper:							
Child-Lock On? ☐ Yes ☐ No Code: <u>17</u> (applicable to Cozmo Deltec [™] Pump only) How long has student worn an insulin pump? or ☐ New							
How long has student worn an insulin pump? or New INSULIN / PUMP SETTINGS							
Timing of Insulin Dose (Bolus Insulin):							
Rapid-acting Ins	Rapid-acting Insulin Type: NovoLog [®] Rapid-acting Insulin should always be given prior to						
			_ me				
Use pump bolus o	alculator to determine all		if CHO intake can be predetermined.				
meal, snack and corr	If CHO intake cannot be predetermined insulin should be given as soon						
pump malfunction oc	curs.	as possible after completion of meal/snack. Treat hypoglycemia before administration of meal or snack insulin.					
Dosage: According to C	HO ratio and Correction Factor (i				age with rapid-acting insulin based on		
the amount of carbohyd					sired range according to the following		
formula:							
Mealtime insulin = [(Pre-meal BG – Target pre-meal BG)/Correction Factor] + [# carbohydrates consumed/CHO Ratio]							
Target pre-meal BG:			Cor	Correction Factor/Sensitivity:			
CHO Ratio:			Exercise/PE CHO Ratio:				
Extra pump supplies will be furnished by parent/guardian: ⊠ infusion sets ⊠ reservoirs □ pods for OmniPod™							
🛛 dressings/tape 🛛 insulin 🖾 syringes/insulin pen 🖾 pump manufacturer instructions							
STUDENT PUMP SKILLS		NEEDS HELP?		COMMENTS (training to be provided by parent. School personnel will not perform pump operation without training):			
1. Counting carbohyd	rates.	🗆 Yes 🛛	No				
2. Giving correct bolus for carbohydrates consumed.		🗌 Yes 🔲	No				
3. Calculating and administering correction bolus.		🗌 Yes 🔲 No					
4. Recognizing signs/symptoms of site infection.		🗌 Yes 🗌 No					
5. Disconnecting pump if needed.		☐ Yes ☐ No					
6. Reconnecting pump at infusion set/site.		🗌 Yes 🔲 No					
7. Giving injection with syringe or pen, if needed.		☐ Yes ☐ No					
8. Accessing bolus hi	story on pump.	🗌 Yes 🗌 No					
9. Troubleshooting al	arms and malfunctions.	□ Yes □	No				
Is child competent & in	ndependent with the following	pump skills?	•	Student <u>must</u> be independent to be permitted to perform these tasks at school. School nurses/personnel are not			
1. Prepare reservoir a	1. Prepare reservoir and tubing.		No	routinely trained on these skills. If child is not independent, parent/guardian to be contacted for set change. Insulin by injection until set is changed per orders. If administering via injection, pump must be suspended or disconnected unless			
2. Insert new infusion set.		🗌 Yes 🔲	No				
 Use & programming of square/extended/dual/ combo bolus features. 		🗌 Yes 🔲	No	ordered otherwise.	suspendea or disconnected unless		
 Use and programming of temporary basals for exercise and illness. 		🗌 Yes 🗌 No		Comments:			
5. Re-program basal settings if needed.	profiles and other pump	🗌 Yes 🔲	No	٥			
Specific duration of	Physician Signature: :	Provi	der Pr	inted Name:	Office Phone: 757-668-7237		
order:				ricsko, MD	Office Fax: 757-668-8215		
2008-2009 Energency # 866-883-9886 SCHOOL YEAR Emergency # 866-883-9886							
SCHOOL TEAK							

CHKD Form 2101 MR Rev 7/08 FDB: Diabetes Center

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DIABETES CENTER

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Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

Part 3: Plan Supplement for Student Wearing Insulin Pump continued Student Name:						
MANAGEMENT OF HIGH BLOOD GLUCOSE: Follow instructions in diabetes medical management plan (DMMP), but in addition:						
If blood glucose over target range 2 hours hours after last bolus or carbohydrate intake, student should receive a correction bolus of insulin using formula (Pump Bolus Wizard®/insulin calculator should be used unless inoperable):						
Blood glucose - <u>target BG</u> ÷ <u>correction factor/sensitivity</u> = units insulin						
KETONE TREATMENT TREE Check for ketones any time blood sugar is >300 mg/dL or >250 mg/dL two times in a row						
If ketones negative:	lf ketones present: بط					
Bolus via pump Recheck in 2 hours 250 mg/dL Recheck BG at next scheduled time	Give injection (do not use pump to bolus), change set, and call 866-883-9886 if moderate or large ketones Drink 8-16 oz. sugar-free fluids (water) every hour until ketones clear Recheck ketones and blood sugar every 2 hours					
	Repeat insulin injection every 2 hours until ketones clear					
	berglycemia treatment.					
MANAGEMENT OF LOW BLOOD GLUCOSE: Follow						
If blood glucose <70 mg/dL recurs within 3 hours without explanation, notify diabetes provider for instructions. Always treat low blood sugar.						
 If seizure or unresponsiveness occurs: <u>Treat with Glucagon</u> (See Diabetes Medical Management Plan) <u>Call 911</u> (or designate another individual to do so) <u>Stop insulin pump</u> by any of the following methods (Send pump with EMS to hospital): Placing in "suspend" or stop mode (See attached copy of manufacturer's instructions) Disconnecting at site, pigtail or clip Cutting tubing Notify parent If pump was removed, send with EMS to hospital 						
ADDITIONAL TIMES TO CONTACT PARENT						
 Soreness, redness or bleeding at infusion site Detachment of dressing/infusion set out of place Leakage of insulin (insulin smells like band-aids) Insulin injection given for high BG/ketones Other 						
Pump Company Names & Contact Numbers (for technica Medtronic MiniMed [™] 1-800-646-4633	Il assistance only) OmniPod/Insulet™ 1-800-591-3455					
Deltec/Cozmo™ 1-800-426-2448	Roche/Disetronic™ 1-800-703-3476					
Patient is new to pump therapy and is to initiate o	on (date)					

My signature below provides authorization for the above written orders. I/We understand that all treatments and procedures may be performed by the school nurse, the student and / or trained unlicensed designated school personnel under the training and supervision provided by the school nurse (or by EMS in the event of loss of consciousness or seizure) in accordance with state laws & regulations. Provider Provider Printed Name: Date: School plan reviewed by: Signature: Eric Gyuricsko, MD 04/19/2013 Parent/Legal Guardian: Date: Acknowledged and received by: School Representative: Acknowledged and received by: Date:

601 Children's Lane, Norfolk, Virginia 23507-1910

DIABETES CENTER

Patient Label or MRN, Acct#, Patient name, DOB, Date of Service

Part 4: Permission to Self-Carry

Name of Student: _____ Birthdate: _____

Student's physician or licensed nurse practitioner confirms that the student has a diagnosis of diabetes, is independent and can perform diabetes care, has approval to self-administer his/her diabetes care including:

- glucose monitoring
- □ insulin calculation and administration (including pump operation & pump equipment)

The student understands that he/she is to promptly report to the school nurse or adult as soon as symptoms of high or low blood sugar appear or when not feeling well.

I agree to prepare a written Diabetes Medical Management Plan in consultation with student's parents and appropriate school personnel.

	Stephanie Jenney, CPNP	Date: <u>4/19/2013</u>
Physician/Nurse Practitioner Signature	Physician/Nurse Practitioner Name	

My child has been instructed in and understands his/her diabetic self-management. My child understands that he/ she is responsible and accountable for carrying and using his/her medication and equipment.

I will provide the school nurse/school administrator with a copy of my child's Diabetes Medical Management Plan signed by his/her physician.

I hereby give permission for the school to administer the medications as prescribed in the care plan, if indicated.

I also give permission for the school to contact the above physician/nurse practitioner regarding my child's diabetes care (authorization required if contact is other than the school nurse).

I will not hold the school board or any of its employees liable for any negative outcomes resulting from the selfadministration of diabetes medication by my child.

I understand that the school nurse, after consultation with the parent/guardian and school administrator, may impose reasonable limitations or restrictions upon my child's possession and self-administration of diabetes medications relative to his/her age and maturity or other relevant considerations.

I understand that the school administration may revoke permission to posses and self-administer said diabetes medication at any point during the school year if it is determined that my child has abused the privilege of possession and self-administration or he/she is not safely and effectively self-administering the medication. In addition, my child could be subject to further disciplinary action.

Parent/Guardian Signature

Date

Student Signature

Date

CHKD Form 2102 MR Rev 7/08 FDB: Diabetes Center