# UPLAND UNIFIED SCHOOL DISTRICT: DIABETES HANDBOOK

#### About the Diabetes Handbook

The Upland Unified School District Diabetes Handbook ("Handbook") is to be used by District staff who are responsible for the care of a student or students with diabetes and is to be referenced in conjunction with Board Policy 5141.21 and Administrative Regulation 5141.21 (Administrating Medication and Monitoring Health Conditions). To the extent that Board Policy 5141.21 and/or Administrative Regulation 5141.21 conflict with this Handbook, the guidance set forth herein shall control.

The Handbook provides background information regarding diabetes and the management of diabetes at school, and also includes District protocols and forms to be implemented and/or used for students with diabetes. The protocols set forth in the Handbook are intended to benefit all students with diabetes in the District, and shall be implemented in a manner that takes into account their individualized needs and any applicable doctor's orders.

Any questions regarding compliance with the Handbook should be referred immediately to the District's Director of Educational Services.

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#### Introduction

Diabetes is one of the most common chronic diseases in school-aged children, affecting about 208,000 young people under age 20 in the United States, According 'to recent estimates, about 23,500 youths are diagnosed with type 1 and type 2 diabetes each year.

Diabetes Is a serious chronic disease in which blood glucose (sugar) levels are above normal due to defects in insulin production, Insulin action, or both. As the sixth leading cause of death by disease in the United States, long-term complications of diabetes include heart disease, stroke, blindness, kidney failure, nerve disease, gum disease, and amputation of the foot or leg. Although there is no cure, diabetes can he managed and complications can be delayed or prevented.

Diabetes must be managed 24 hours a day, 7 days a week. For students with type I diabetes and for some with type 2 diabetes, that means careful monitoring of their blood glucose levels throughout the school day and administering multiple doses of insulin by injection or with an insulin pump to control their blood glucose and minimize complications. Coordination and collaboration among members of the school health team and the student's personal diabetes health care team are essential for helping students manage their diabetes in the school setting.

#### **Members of the School Health Team**

Student with diabetes

Parents/guardians

School nurse

Other school health care personnel

Trained diabetes personnel

Administrators

Principal

504/IEP coordinator

Office staff

Student's teacher(s)

School psychologist or guidance counselor

Coach, lunchroom, and other school staff members

**Members of the Student's Personal** Diabetes Health Care Team

Student with diabetes

Parents/guardians

Doctor

Nurse

Registered dietitian nutritionist

Diabetes educator

Other health care providers Involved with the student's care

#### **Confidentiality Statement**

Generally, the Family Education Rights and Privacy Act (FERPA) precludes districts from disclosing personally identifiable information from a student's education records without first obtaining signed and dated written parental consent, subject to certain exceptions. FERPA permits educational agencies to disclose "personally identifiable information from an education record to appropriate parties, including parents of an eligible student, in connection with an emergency if knowledge of the information is necessary to protect the health and safety of the student or other individuals."

Citations: <u>34 CFR. 99.36</u> (a). See also Letter to Anonymous, <u>53 META 235</u> (EDU 2008) (An emergency exists if there is a significant and articulable threat to an individual's health or safety, considering the totality of the circumstances).

#### **Diabetes Overview**

#### What Is Diabetes?

Diabetes Is a chronic disease in which blood glucose (sugar) levels are above normal. People with diabetes have problems converting food to energy. After a meal, food is broken down into a sugar called blood glucose, which is carried by the blood to cells throughout the body. Insulin, a hormone made in the pancreas, allows blood glucose to enter the cells of the body where it is used for energy.

People develop diabetes because the pancreas produces little or no insulin or because the cells in the muscles, liver, and fat do not use insulin properly. As a result, the blood glucose builds up In the blood and is transported to the kidney, where it is eliminated from the body in the urine, 'thus, the body loses its main source of fuel even though the blood contains large amounts of blood glucose.

When insulin is no longer made, it must be obtained from another source—insulin injections or an insulin pump, When the body does not use insulin properly, people with diabetes may take insulin or other blood glucose-lowering medications, Neither Insulin nor other medications, however, are cures for diabetes; they only help to manage the disease.

Taking care of diabetes is important. Over the years, ongoing high blood glucose, also called hyperglycemia, can lead to serious health problems, If not managed effectively, diabetes can affect the blood vessels, eyes, kidneys, nerves, gums, and teeth, making it the leading cause of adult blindness, kidney failure, and non-traumatic lower-limb amputations. Poorly controlled diabetes also increases a person's risk for heart disease and stroke.

Some of these problems can occur in teens and young adults who develop diabetes during childhood, The good news is that research shows these problems can be greatly reduced, delayed, or possibly prevented through intensive treatment that keeps blood glucose levels near normal.

The three main types of diabetes are type 1, type 2, and gestational diabetes.

#### Type 1 Diabetes

Type 1 diabetes, formerly called juvenile diabetes, is a disease of the immune system, the body's system for fighting infection. In people with type 1 diabetes, the immune system attacks the beta. cells (the insulin-producing cells of the pancreas) and destroys them, Because the pancreas can no longer produce insulin, people with type 1 diabetes must rake insulin daily to live.

Type 1 diabetes can occur at any age, but onset of the disease occurs most often in children and young adults. Most cases of diabetes in children under age 10 are type 1 diabetes. In adults, type 1 diabetes accounts for 5 to 10 percent of all cases of diagnosed diabetes.

Symptoms. The symptoms of type 1 diabetes are due to an increase in the level of glucose in the blood and include increased thirst and urination, unexplained weight loss, blurred vision, and feeling tired all the time, These symptoms may be mistaken for severe flu or another rapid-onset illness. If not diagnosed and treated with insulin, the student with type 1 diabetes can lapse into a life-threatening condition known as diabetic ketoacidosis or DKA. Signs of DKA include vomiting; sleepiness; fruity breath; difficulty breathing; and, if untreated, coma and death.

Risk factors. Although scientists have made much progress in predicting who is at risk for type I diabetes, they do not yet know what triggers the immune system's attack on the pancreas' beta cells. They believe that type 1 diabetes is due to a combination of genetic and environmental factors that are beyond the individual's control, Researchers are working to identify these factors and to stop the autoimmune process that leads to type 1 diabetes,

Type 'I Diabetes TrialNet is an international network of researchers who arc exploring ways to prevent, delay, and reverse the progression of type 1 diabetes.

#### **Type 2 Diabetes**

Type 2 diabetes, formerly called adult-onset diabetes, is the most common form of the disease in adults. People can develop it at any age, even during childhood. A progressive disease, type 2 diabetes usually begins with Insulin resistance, a condition in which cells do not use insulin properly. At first, the pancreas keeps up with the added demand by producing more insulin, Over time, however, the pancreas loses its ability to secrete enough insulin in response to meals or to control blood glucose levels overnight or during periods of fasting.

Managing type 2 diabetes requires maintaining a healthy weight and weight loss, if overweight. Lifestyle changes such as making healthy food choices and getting regular physical activity are essential, In addition, people with type 2 diabetes may rake insulin and/or other blood glucose-lowering medications to manage their diabetes,

Type 2 diabetes used to be found mainly in overweight or obese adults age 40 or older. Now, as more children and adolescents in the United States have become overweight and inactive, type 2 diabetes is occurring in young people,

Symptoms, Symptoms of type 2 diabetes may be similar to those of type 1 diabetes. A person may feel very tired or thirsty and have to urinate often due to high blood glucose levels, Other symptoms include unexplained weight loss and blurred vision. High blood pressure and elevated blood lipids (cholesterol) are associated with insulin resistance, In addition, physical signs of insulin resistance may appear, such as acanthosis nigricans, a condition in which the skin around the neck, armpits, or groin looks dark, thick, and *feels* velvety. Often, this condition is mistaken for poor hygiene,

Some children or adolescents (and adults) with type 2 diabetes may have no recognized symptoms when they are diagnosed. For that reason, it is important for the parents/guardians to know the risk factors of type 2 diabetes and to talk to their health care professionals about screening children or teens who are at high risk for type 2 diabetes,

Risk factors, The key risk factors for type 2 diabetes in youth include being overweight or obese and having a family member who has type 2 diabetes. In addition, type 2 diabetes is more common in certain racial and ethnic groups such as African Americans, Hispanics/Latinos, American Indians, Alaska Natives, Asian Americans, and Pacific Islanders, including Native Hawaiians. Other risk factors include having a mother who had diabetes during her pregnancy; having high blood pressure, high cholesterol, abnormal lipid levels, polycystic ovary syndrome; and being inactive.

For children and teens at risk, health care professionals can encourage, support, and educate the entire family to make lifestyle changes that may delay—or prevent—the onset of type 2 diabetes, Changes include reaching and maintaining a healthy weight by making healthy food choices arid engaging in regular physical activity.

#### **Gestational Diabetes**

Diabetes can develop during pregnancy, which is called gestational diabetes, and is caused by the hormones of pregnancy. These hormones can cause insulin resistance or a shortage of insulin. Although gestational diabetes usually goes away after the baby is born, a woman who has had it is at increased risk for developing diabetes later in life. In addition, the offspring of a pregnancy affected by gestational diabetes is at increased risk for obesity and developing type 2 diabetes,

#### What Is Effective Diabetes Management at School?

- Maintaining Optimal Blood Glucose Control
- Assisting the Student with Performing Diabetes Care Tasks
- Designating Trained Diabetes Personnel

#### **Maintaining Optimal Blood Glucose Control**

The goal of effective diabetes management is to keep **blood glucose levels** within a **target range** determined by the student's personal diabetes health care team. Optimal blood glucose control helps to promote normal growth and development and **to** prevent the immediate dangers of blood glucose levels that are too high or too low. Maintaining blood glucose levels within the target range also can help to optimize the student's ability to learn by avoiding the effects of hypoglycemia and hyperglycemia on cognition, attention, and behavior, In the long term, effective diabetes management helps to prevent or delay the serious complications of diabetes such as heart disease, stroke, blindness, kidney failure, gum disease, nerve disease, and amputations of the foot or leg.

The key to maintaining optimal blood glucose control is to carefully balance food intake, physical activity, **insulin**, and/or other medication. **As** a general rule, food makes blood glucose levels go up. Physical activity, insulin, and diabetes medications make blood glucose levels go down. Several other factors, such **as** growth and puberty, physical and emotional stress, illness, or injury, also can affect blood glucose levels,

Managing blood glucose is a constant juggling act-24 hours a day, 7 days a week.

Many students with diabetes check their blood glucose levels throughout the day using a blood glucose meter. Some students also wear a **continuous** glucose monitor (CGM), When blood glucose levels arc too low (hypoglycemia) or too high (hyperglycemia), corrective actions need to be taken,

Low blood glucose levels, which can be life-threatening, present the greatest immediate danger to students with diabetes,

#### **Assisting the Student with Performing Diabetes Care Tasks**

Diabetes management is needed 24 hours a day, 7 days a week. Many students will be able to handle all or almost all of their nonemergency diabetes care tasks by themselves, Others, because of age, developmental level, inexperience, or issues with adherence to their diabetes tasks, will need help from school personnel. (Sec Understand Why Diabetes **Self-Management Is Important).** 

All students with diabetes will need help during an emergency, which may happen at any time. School personnel need to be prepared to provide diabetes care at school and at all school-sponsored activities in which a student with diabetes participates.

The school nurse is the most appropriate person in the school setting to provide care for a student with diabetes, Many schools, however, do not have a full-time nurse, and sometimes a single nurse must cover more than one school, Moreover, even when a nurse is assigned to a school full time, she or he may not always be available during the school day, during extracurricular activities, or on field trips,

In circumstances where a nurse is absent or unavailable, the school remains responsible for arranging and implementing the agreed upon diabetes care that is necessary to enable the child to participate in school and school-related activities. The school nurse or another qualified health care professional plays a major role in selecting and training appropriate staff and providing professional supervision and consultation regarding routine and emergency care of the student with diabetes.

#### **Designating Trained Diabetes Personnel**

Nonmedical school personnel—called "trained diabetes personnel" in this guide—can be trained and supervised to perform diabetes care tasks safely in the school setting, School staff who may be trained to provide diabetes care include: health aides, teachers, physical education personnel, school principals, school secretaries, school psychologists or guidance counselors, food service personnel, and other appropriate personnel, Some schools may call these individuals unlicensed assistive personnel, assistive personnel, paraprofessionals, or trained nonmedical personnel, Trained diabetes personnel may be identified from existing school staff who are willing to serve in this role.

Care tasks performed by trained diabetes personnel may include **blood glucose monitoring**, insulin administration (by **syringe**, **pen**, or assistance with a **pump**), **glucagon** administration, **ketone testing**, and basic **carbohydrate counting**. In addition to learning how to perform general diabetes care tasks, trained diabetes personnel should receive student-specific training and be supervised by the school nurse or another qualified health care professional, (See **Train School Personnel**.)

The school nurse has a critical role in training and supervising trained diabetes personnel to ensure the health and safety of students with diabetes. In addition, a student's health care provider or a diabetes educator may assist in training nonmedical personnel in diabetes care, Given the rapid changes in diabetes technology, therapies, and evidence-based practice, the school nurse who provides care to students with diabetes and facilitates diabetes management training for school personnel has the professional responsibility to acquire and maintain knowledge and competency related to diabetes management. (See **Train School Personnel.**)

Once it has been determined that a student-specific diabetes care task may be delegated, the school nurse should he involved in the decision-making process to identify which school personnel ate most appropriate to be trained, A diabetes-trained health care professional, such as a school nurse or a certified **diabetes educator**, develops and implements the training program, evaluates the ability of the trained diabetes personnel to perform the task, and establishes a plan for ongoing supervision throughout the school year. Diabetes care must be carried out as specified, in the student's **health care plans**.

# How Do You Plan Effective Diabetes Management in the School Setting?

- Assemble a School Health Team
- Review the Federal Laws
- Assemble the Student's Health Care Plans
  - Diabetes Medical Management Plan (Prepared by the Student's Personal Diabetes Health Care Team)
  - Individualized Health Care Plan (Prepared by the School Nurse)
  - Emergency Care Plans for Hypoglycemia and Hyperglycemia (Prepared by the School Nurse)
- Prepare the Student's Education Plan (As Needed)
- Train School Personnel
- Diabetes Management Training Resources

#### Administer Insulin

Students with type 1 diabetes—and many students with type 2 diabetes—need to administer or be given insulin at regular times during the school day. Students may need to take insulin to cover meals and/or snacks and may need additional or corrective dosages of insulin to treat hyperglycemia as specified in the DMMP. It is medically preferable that the student be allowed to self-administer insulin in the classroom or wherever they happen to be.

The DMMP, which will be different for each student, specifies the dosage, delivery system, and schedule for insulin administration. The Individualized Health Care Plan (IHP) and the student's education plan, based on the MIMI, should specify who will administer prescribed insulin and under what circumstances.

Some students who need insulin during the school day are able to administer it on their own; others will need supervision; and yet others will need someone to administer the insulin for them, The school nurse and/or trained diabetes personnel should assist with insulin administration in accordance with the student's health care plans and education plans.

A diabetes-trained health care professional such as the school nurse or a certified diabetes educator should teach, monitor, and supervise trained diabetes personnel to administer insulin.

#### **Types of Insulin**

Today, new types of insulin and new delivery systems help keep blood glucose levels within the target range. These options, however, require more frequent blood glucose monitoring and more assistance for the student with diabetes,

Insulin has three characteristics:

- Onset is the length of time before insulin reaches the bloodstream and begins lowering blood glucose levels.
- Peak is the time at which insulin is at its maximum strength in terms of lowering blood glucose levels.
- Duration is the number of hours during which insulin continues to lower blood glucose levels.

Insulin is classified in four types by how it works:

- Rapid-acting begins to work about 15 minutes after injection, peaks in about 1 hour, and continues to work for 2 to 4 hours,
- Short-acting usually reaches the bloodstream within 30 minutes after injection, peaks anywhere from 2 to 3 hours after injection, and is effective for approximately 3 to 6 hours.
- Intermediate-acting generally reaches the bloodstream about 2 to 4 hours after injection, peaks 4 to 12 hours later, and is effective for about .12 to 18 hours,
- Long-acting reaches the bloodstream several hours after injection and tends to lower glucose levels fairly evenly over a 24-hour period,

#### Types of Insulin Plans

Insulin therapy plans are tailored to the individual student's insulin needs as well as the student's health literacy and numeracy (i,e., ability to understand the prescribed plan), "IWo common plans are the basal/bolus insulin plan and the fixed dose insulin therapy plan.

Basal/Bolus Insulin Plan (Adjustable Insulin Therapy)

Most students with type 1 diabetes use a basal/bolus insulin plan. This type of insulin plan, sometimes referred to as adjustable insulin therapy, reproduces or mimics the way a normally functioning pancreas produces insulin.

A coordinated combination of different types of Insulin is used to achieve target blood glucose levels at meals and snacks, during periods of physical activity, and through the night,

- Basal insulin is long-acting or intermediate-acting Insulin delivered once or twice a day. This type of insulin Is
  used to control blood glucose levels overnight and between meals,
- Bolus insulin refers to a dose of rapid-acting or short-acting insulin that is given to cover the carbohydrate in a
  meal or snack and to lower blood glucose levels that are above target.

Students using a basal/bolus insulin plan require multiple injections during the school day, or they receive their insulin through a programmable insulin pump.

Fixed Dose Insulin Therapy

Other students may take the same doses of insulin each day with rapid-acting, short-acting, intermediate-acting, or long-acting insulin. This type of plan is sometimes referred to as fixed dose insulin therapy,

#### **Insulin Storage**

The *shelf* life of insulin after opening varies according to the type of insulin, the type of container (vial or pen cartridge), and how insulin is administered (through a syringe, a pen, or a pump), Review the product storage instructions on the manufacturer's package insert and check the expiration date,

In general, most opened vials of insulin may be left at room temperature (below 86 degrees Fahrenheit) for 30 days and then discarded. Most opened dispbsable pens or pen cartridges may he left at room temperature for less than 30 days, depending on the type of insulin and the type of pen or cartridge, Unopened vials or pen cartridges should be stored in a refrigerator, They may he used until their expiration date and then must be discarded.

#### **Insulin Delivery**

The three most common ways to administer insulin are with a syringe, an insulin pen, or an insulin pump. The manufacturers of insulin, insulin syringes, insulin pens, and insulin pumps have websites where school personnel can learn more about these products.

- 1. Insulin syringes, available in several sizes, make it easy to draw up the proper dosage. Shorter, smaller needles make injections easy and relatively painless.
- 2. An Insulin pen holds a cartridge of insulin. Insulin pens are convenient and appropriate when students need a single type of insulin. During the school day, pens are used most often with rapid-acting insulin to cover a meal or to treat a high blood glucose level. Generally, a user will follow these steps;
  - Screw the needle onto the tip of the pen just before use.
  - Dial the pen to 2 units.
    - Hold the pen upright and press the button on the pen to discard the air and fill the needle with Insulin. Repeat if needed until a drop of insulin appears.
  - · Dial the pen to the prescribed dose and inject the insulin,
  - Remove the pen needle ;Ind dispose of it in a sharps container,
- 3. An Insulin pump is a computerized device that is programmed to deliver small, steady doses of insulin throughout the day; additional doses are given to cover food intake arid to lower high blood glucose levels. Most pumps now receive blood glucose values directly from the meter, but if not, the student must enter the blood glucose value as well in order for the pump to calculate the bolus dose.

Rapid-acting insulin is used in the insulin pump. Students using the insulin pump will not be taking any long-acting insulin. 'Therefore, a pump malfunction or extended disconnection from the pump (longer than 2 hours) increases the student's risk of developing DKA more quickly. The parents/guardians should provide the school with a backup supply of syringes and rapid-acting insulin or insulin pens in the event of a pump failure, Keep supplies in a secure location,

There are several types of insulin pumps, School personnel can be trained on each student's pump by contacting the pump manufacturer or the student's diabetes health care team,

- Some pumps look like a pager, and students usually wear it on their waistband, belt, or in their pocket, The pump holds a reservoir of insulin attached to an infusion set that leaves a very small needle or plastic cannula (a tiny, flexible plastic tube) under the skin. Infusion sets are started with a guide needle, then the cannula is left In place and taped with dressing, and the needle is removed. The cannula usually is changed every 2 or 3 days or when blood glucose levels remain above the target range or ketones arc present. Routine site changes are a responsibility of the family and generally are done at home,
- Other pumps look like a pod or a patch. These pumps are attached directly to the skin, and a guide needle inserts the cannula under the skin automatically. the student usually wears the pod on his or her abdomen, buttocks, leg, or arm, 'The pod contains the insulin (there is no tubing), The pod-type pump is controlled by a small hand-held computer device that is kept nearby. This type of insulin pump needs to be changed every 2 to 3 days,

Some pumps have the data from continuous blood glucose monitoring displayed on the pump screen. In some pumps, technology has been developed to allow communication between the pump and the CGM, enabling the insulin pump to rely on CGM information to reduce or stop insulin delivery if a low glucose level is anticipated, Some of the newer CGM have transmitters that display blood glucose values on tablets, smartphones, and computers.

If a student uses a CGM, verify a low blood glucose level with a finger stick. Treat the student for hypoglycemia, if needed, as prescribed in the student's DMMP.

Trained diabetes personnel who assist with the student's diabetes care tasks should be knowledgeable about and trained in using and operating each student's insulin delivery system in the event that a school nurse is not available to administer insulin,

- 00180-00171/4085036.2 Users are freed from multiple daily insulin injections.
- The pump delivers insulin In a way that is similar to what the body does naturally.
- Users may achieve improved blood glucose control.
- Basal insulin delivery can be fine-tuned to the user's needs, allowing for adjustments for the differences in insulin sensitivity that change over the course of 24 hours,
- The pump uses frequent pulses of rapid-acting Insulin, allowing for more consistent action on blood glucose than with Intermediate- or long-acting Insulin.
- Users may be able to participate in unplanned physical activity without eating extra food.
- The pump is durable and contains many child safeguards.
- The pump can be preprogrammed with insulin-to-carbohydrate ratios and blood glucose correction factors.
- When additional insulin, called a bolus, is needed to balance the carbohydrates in a meal or snack, or when blood glucose levels are high, the pump calculates the bolus dosage after the student enters the number of grams of carbohydrates to be eaten.
- Innovations in pump and sensor technologies are allowing for automation of insulin delivery by the pump.

#### **Staff Training Protocol**

- 1. Upland Unified School District shall provide training to all non-nurse District employees and contractors who provide diabetes care to a student.
- 2. Employees and contractors trained to provide diabetes care to a student will be known as trained diabetes personnel ("TDP") and may include teachers, classroom aides, office staff, or other staff. Diabetes care tasks performed by TDPs may include:
  - Blood glucose monitoring;
  - Insulin administration:
  - Glucagon administration;
  - Ketone testing;
  - Basic carbohydrate counting;
  - Security of medical supplies and recordkeeping; and
  - The appropriate steps to take when glucose levels are outside of the target ranges indicated in a student's Diabetes Medical Management Plan ("DMMP") and/or doctor's orders.
- 3. Training of TDPs shall be provided at least annually by a school nurse or a health care professional with expertise in diabetes, and if possible by a Certified Diabetic Educator. At a minimum, the training shall cover:
  - An overview of diabetes;
  - How to recognize and respond to hypoglycemia and hyperglycemia;
  - Whom to contact in an emergency;
  - How to carry out the specific diabetes care tasks set forth in the student's doctor's orders and/or DMMP, including understanding physician instructions concerning drug dosage, frequency, and manner of administration;
  - General principles relating to the operation of an insulin pump;
  - How to document that all care tasks were performed, including security and record keeping; and
  - What to do during a schoolwide emergency (e.g., lockdown or evacuation).
- 4. TDP training shall take place at the commencement of each school year (including summer sessions, if applicable), or as needed when a student with diabetes is newly enrolled at a school, when a student is newly diagnosed with diabetes, or when a student's doctor's orders reflect a substantial change in care protocols (e.g., moving from manual injection of insulin to a pump), but in no event more than 30 days following such enrollment or diagnosis. The school nurse or another health care professional with expertise in diabetes shall promptly provide follow-up training and supervision as needed.
- 5. General diabetes care training shall be provided by a school nurse or a health care professional with expertise in diabetes, and if possible by a Certified Diabetic Educator,

to all school employees or contractors who have responsibility for a student with diabetes at any time during the school day or during school-sponsored activities, including field trips, off-site activities, and any extracurricular activities. At minimum, this training shall include an overview of basic information about diabetes and its management, how to recognize symptoms of hypoglycemia and hyperglycemia, and proper methods for referring students who require diabetes care to a TDP. This training shall take place at the commencement of each school year (including summer sessions, if applicable), or as needed when a student with diabetes is newly enrolled at a school, when a student is newly diagnosed with diabetes, or when a student's doctor's orders reflect a substantial change in care protocols (e.g., moving from manual injection of insulin to a pump), but in no event more than 30 days following such enrollment or diagnosis. The school nurse or another health care professional with expertise in diabetes shall promptly provide follow-up training and supervision as needed.

- 6. TDPs and all school employees who have primary responsibility for a student will be trained to respect the student's confidentiality and right to privacy.
- 7. The District shall designate at least three-full time TDPs (at least one to be "on-duty" and other two to serve as "back-ups" on any given day) on staff in each school attended by one or more students with a DMMP or with doctor's orders related to managing a student's diabetes. The District can designate additional TDPs as needed to provide adequate diabetes care to any such student.

#### School Sponsored Field Trip and Off-Site Activities Protocol

The needs of a student with diabetes may differ between daytime-only school sponsored field trips and school sponsored off-site activities, on the one hand, and school sponsored field trips for which one or more overnight stays is planned, on the other hand. The requirements for school sponsored field trips are therefore addressed in separate sections below entitled "Day Trips" and "Overnight Trips."

#### Day Trips:

- 1. The student will be permitted to participate in all school sponsored field trips and school sponsored off-site activities unless otherwise indicated in doctor's orders.
- 2. The student's home room teacher will notify parent, TDPs, and nursing staff within three (3) business days of the scheduling of any field trip or off-site activity pertinent to the student.
- 3. A school nurse or trained diabetes personnel ("TDP<sup>1</sup>") will accompany the student on the field trip and/or off-site activity and will assist the student with his or her needs as set forth in the student's doctor's orders or Diabetes Medical Management Plan ("DMMP").
- 4. The school nurse or TDP will be available on-site throughout the entire school sponsored field trip (including travel between the school and any destination(s)) and will make sure that the student's diabetes supplies travel with the student.
- 5. If a student's parents/guardians and medical professional(s) have determined that the provision of medical supervision related to the student's usual diabetes care by Upland Unified School District during a school sponsored field trip or off-site activity is not necessary, the student's parents/guardians may sign, at their election, a release form indicating that District personnel need not provide medical supervision during the field trip or off-site activity.
- 6. Each school may have guidelines for volunteers on field trips or off-site activities. If those guidelines exist, a parent/guardian participates, the parent/guardian may waive their right to have a TDP and/or school nurse present. If the District requires the student's parent/guardian to sign a release form indicating that medical supervision related to the student's diabetes care during the field trip or off-site activity will be provided by the parent or guardian in attendance, the District must inform the parent or guardian in writing of the District's default obligation to provide

<sup>&</sup>lt;sup>1</sup> A TDP may include a teacher, classroom aide, office staff, or other staff, and may also include trained staff of the activity provider (who must be trained on the individual student's Section 504 Plan, DMMP, and IEP at least three (3) days in advance of the field trip or off-site activity).

- or otherwise arrange for a TDP and/or school nurse throughout the duration of the field trip or off-site activity.
- 7. Staff will respect the student's confidentiality and right to privacy.

#### Overnight Trips:

- 1. The student will be permitted to participate in all school sponsored overnight trips unless otherwise indicated in doctor's orders. For purposes of this section, the term "overnight trips" refers to a field trip or off-site activity for which one or more overnight stays is planned.
- 2. The student's home room teacher will notify the parents/guardians, TDPs, and nursing staff within three (3) business days of the scheduling of any field trip or off-site activity pertinent to the student.
- 3. For overnight school sponsored trips, upon reasonable advance notice, the school will schedule a meeting with parents, teacher, TDPs, and nursing team for the purpose of developing an overnight trip care plan. This meeting shall be held no less than two (2) weeks in advance of the scheduled overnight trip.
- 4. If a student's parents/guardians and medical professional(s) have determined that the provision of medical supervision related to the student's usual diabetes care by Upland Unified School District during a school sponsored field trip or off-site activity is not necessary, the student's parents/guardians may sign, at their election, a release form indicating that District personnel need not provide medical supervision during the field trip or off-site activity.
- 5. Each school may have guidelines for volunteers on field trips or off-site activities. In accordance with those guidelines, a parent/guardian may volunteer to attend the field trip or off-site activity. If a parent/guardian participates, the parent/guardian may waive their right to have a TDP and/or school nurse present. If the District requires the student's parent/guardian to sign a release form indicating that medical supervision related to the student's diabetes care during the field trip or off-site activity will be provided by the parent or guardian in attendance, the District must inform the parent or guardian in writing of the District's default obligation to provide or otherwise arrange for a TDP and/or school nurse throughout the duration of the field trip or off-site activity.
- 6. Staff will respect the student's confidentiality and right to privacy.

#### School Sponsored Extracurricular Activities Protocol

- 1. The student will be permitted to participate in all school sponsored extracurricular activities.
- 2. A school nurse or trained diabetes personnel ("TDP<sup>2</sup>") will be available on-site during all school sponsored extracurricular activities in which the student participates and will assist the student with his or her health care needs as set forth in the student's doctor's orders or Diabetes Medical Management Plan ("DMMP").
- 3. If a student's parents/guardians and medical professional(s) have determined that medical supervision related to the student's usual diabetes care by Upland Unified School District during a school sponsored extracurricular activity is not necessary, the student's parents/guardians may sign, at their election, a release form indicating that District personnel need not provide medical supervision during the school sponsored extracurricular activity.
- 4. Upon reasonable advance request by the parent or guardian of the student, and following District guidelines for participation, a parent/guardian may volunteer to attend the school sponsored extracurricular activity. The parent/guardian may waive their right to have a TDP and/or school nurse present. If the District requires the student's parent/guardian to sign a release form indicating that medical supervision related to the student's diabetes care during the school sponsored extracurricular activity will be provided by the parent or guardian in attendance, the District must inform the parent or guardian in writing of the District's default obligation to provide or otherwise arrange for a TDP and/or school nurse throughout the duration of the school sponsored extracurricular activity.
- 5. Staff will respect the student's confidentiality and right to privacy.

<sup>&</sup>lt;sup>2</sup> A TDP may include a teacher, classroom aide, office staff, or other staff.

# Diabetes Management During Disaster or Lockdown Protocol

- 1. To prepare for an emergency evacuation, disaster or lockdown, the District must consider the need for students with diabetes to have necessary medications, food, and related diabetes supplies available to them wherever they happen to be within the school.
- 2. The District must meet with or otherwise arrange a conference call for each student with diabetes, with his or her parent(s)/guardian(s), and the student's regular physician / health care provider, to identify the items required by the student in the event of an emergency evacuation, disaster, or lockdown. These items will become part of an emergency supply kit ("Emergency Kit") that must be provided to the District by the student's parent(s)/guardian(s). The Emergency Kit should also include any additional insulin orders as needed (e.g., dinner and nighttime). The contents of the Emergency Kit should be reflected consistently across the student's Diabetes Medical Management Plan ("DMMP"), 504 Plan, IEP, and any doctor's orders in effect.
- 3. In the event of an emergency evacuation, disaster, or lockdown, the student's doctor's orders, DMMP, 504 Plan, and/or IEP will remain in effect to the extent possible.
- 4. A school nurse or trained diabetes personnel ("TDP<sup>1</sup>) will provide care to the student as outlined in the student's doctor's orders, DMMP, 504 Plan, and/or IEP as safely as permitted.
- 5. School staff will use their best efforts to transport the student's diabetes supplies and equipment to the location of the student if these items are not already within the student's proximity.
- 6. School staff will attempt to establish contact with the student's parents/guardians and provide updates, and will receive information from parents/guardians regarding the student's diabetes care.
- 7. School staff will respect the student's confidentiality and right to privacy.

A TDP may include a teacher, classroom aide, office staff, or other staff.

# SAMPLE FORMS

# **Diabetes Medical** Management Plan (DMMP)

This plan should be completed by the student's personal diabetes health care team, including the parents/guardians. It should be reviewed with relevant school staff and copies should be kept in a place that can be accessed easily by the school nurse, trained diabetes personnel, and other authorized personnel.

Date of plan:	This plan is valid for the current school year:			
Student information	32		2 <u>3. °</u>	
Student's name:		Date of birth:		
Date of diabetes diagnosis:	□ Type 1	☐ Type 2 ☐ Other:		
School:		School phone number:		
Grade:	Homeroom teacher:			
School nurse:		Phone:		
Contact information		***************************************		
Parent/guardian 1:				
Telephone: Home:	Work:	Cell:		
Email address:				
Parent/guardian 2:	<del></del>			
		Cell:		
Email address:				
Student's physician/health care pro-	vider:			
Address:				
Telephone:		cy number:		
Email address:				
Other emergency contacts:				
Name:	Relati	onship:		
Telephone: Home:	Work:	Cell:		

Brand/model of blood glucose meter:  Target range of blood glucose:  Before meals:		glucose			
Before meals:	Brand/model of blood	glucose meter:			
Before meals:	Target range of blood	glucose:			
Check blood glucose level:    Before breakfast			er:		
Before breakfast					
Before lunch	-		☐ Hours after breakfast	□ 2 hours after a cou	rection dose
Mid-morning					redicti desc
As needed for signs/symptoms of low or high blood glucose					
Preferred site of testing:   Side of fingertip   Other:   Note: The side of the fingertip should always be used to check blood glucose level if hypoglycemia is suspected.  Student's self-care blood glucose checking skills:   Independently checks own blood glucose   May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose values  Continuous glucose monitor (CGM):   Yes   No   Brand/model:   No   High:   Predictive alarm:   Low:   High:   Rate of change:   Low:   High:   Threshold suspend setting:   High:   Rate of change:   Low:   High:   Threshold suspend setting:   Additional information for student with CGM  Confirm CGM results with a blood glucose meter check before taking action on the sensor blood glucose level. If the student has signs or symptoms of hypoglycemia, check fingertip blood glucose level regardless of the CGM. Insulin injections should be given at least three inches away from the CGM insertion site. Do not disconnect from the CGM for sports activities. If the adhesive is peeling, reinforce it with approved medical tape. If the CGM becomes dislodged, return everything to the parents/guardians. Do not throw any part away. Refer to the manufacturer's instructions on how to use the student's device.  Student's Self-care CGM Skills   Independent?  The student knows what to do and is able to deal with a HIGH alarm.   Yes   No The student knows what to do and is able to deal with a LOW alarm.   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No The student knows	☐ Mid-morning	☐ Before PE	☐ After PE	Other:	
Note: The side of the fingertip should always be used to check blood glucose level if hypoglycemia is suspected.  Student's self-care blood glucose checking skills:    Independently checks own blood glucose   May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose   Uses a smartphone or other monitoring technology to track blood glucose values  Continuous glucose monitor (CGM):	☐ As needed for signs/:	symptoms of low or	high blood glucose	☐ As needed for sign	s/symptoms of illnes
Student's self-care blood glucose checking skills:    Independently checks own blood glucose   May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose   Uses a smartphone or other monitoring technology to track blood glucose values   Continuous glucose monitor (CGM):	Preferred site of testing	g: 🗆 Side of fingert	tip 🗆 Other:	_	
Independently checks own blood glucose   May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose   Uses a smartphone or other monitoring technology to track blood glucose values   Continuous glucose monitor {CGM}:	Note: The side of the fin	ngertip should alway:	s be used to check blood glucose le	vel if hypoglycemia is s	uspected.
May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose   Uses a smartphone or other monitoring technology to track blood glucose values   Continuous glucose monitor (CGM):   Yes   No   Brand/model:   Alarms set for: Severe Low:   Low:   High:   Predictive alarm: Low:   High:   Rate of change: Low:   High:   Threshold suspend setting:   High:   Rate of change: Low:   High:   Threshold suspend setting:   Additional information for student with CGM   Online of the student has signs or symptoms of hypoglycemia, check fingertip blood glucose level regardless of the CGM.   Insulin injections should be given at least three inches away from the CGM insertion site.   Do not disconnect from the CGM for sports activities.   If the adhesive is peeling, reinforce it with approved medical tape.   If the CGM becomes dislodged, return everything to the parents/guardians. Do not throw any part away.   Refer to the manufacturer's instructions on how to use the student's device.   Student's Self-care CGM Skills   Independent?   The student troubleshoots alarms and malfunctions.   Yes   No   No   The student knows what to do and is able to deal with a HIGH alarm.   Yes   No   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   No   Insulation to the properties of the complex content in the blood glucose level.	Student's self-care bloc	od glucose checking	skills:		
May check blood glucose with supervision   Requires a school nurse or trained diabetes personnel to check blood glucose   Uses a smartphone or other monitoring technology to track blood glucose values   Continuous glucose monitor (CGM):   Yes   No   Brand/model:   Alarms set for: Severe Low:   Low:   High:   Predictive alarm: Low:   High:   Rate of change: Low:   High:   Threshold suspend setting:   High:   Rate of change: Low:   High:   Threshold suspend setting:   Additional information for student with CGM   Online of the student has signs or symptoms of hypoglycemia, check fingertip blood glucose level regardless of the CGM.   Insulin injections should be given at least three inches away from the CGM insertion site.   Do not disconnect from the CGM for sports activities.   If the adhesive is peeling, reinforce it with approved medical tape.   If the CGM becomes dislodged, return everything to the parents/guardians. Do not throw any part away.   Refer to the manufacturer's instructions on how to use the student's device.   Student's Self-care CGM Skills   Independent?   The student troubleshoots alarms and malfunctions.   Yes   No   No   The student knows what to do and is able to deal with a HIGH alarm.   Yes   No   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   No   Insulation to the properties of the complex content in the blood glucose level.	☐ Independently check	s own blood glucose	•		
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Alarms set for: Severe Low: Low: High:	•		,		
Alarms set for: Severe Low: Low: High:					
Predictive alarm: Low:					
Additional information for student with CGM  Confirm CGM results with a blood glucose meter check before taking action on the sensor blood glucose level. If the student has signs or symptoms of hypoglycemia, check fingertip blood glucose level regardless of the CGM. Insulin injections should be given at least three inches away from the CGM insertion site. Do not disconnect from the CGM for sports activities. If the adhesive is peeling, reinforce it with approved medical tape. If the CGM becomes dislodged, return everything to the parents/guardians. Do not throw any part away. Refer to the manufacturer's instructions on how to use the student's device.  Student's Self-care CGM Skills Independent? The student troubleshoots alarms and malfunctions.   Yes   No   The student knows what to do and is able to deal with a HIGH alarm.   Yes   No   The student knows what to do and is able to deal with a LOW alarm.   Yes   No   The student can calibrate the CGM.   Yes   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No   The student knows what to do when the CGM indicates a rapid trending rise or   Yes   No					
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Hypoglycemia treatmer	nt			
Student's usual symptoms of hy	poglycemia (list belo	w):		
If exhibiting symptoms of hypogl product equal to grams of		lucose level is le	ess thanmg/dL, give	a quick-acting glucose
Recheck blood glucose in 15 min  Additional treatment:				mg/dL.
if the student is unable to eat or movement):			ve, or is having seizure acti	ivity or convulsions (jerkin
Position the student on his of	· ·	=		
• Give glucagon:		☐ ½ mg		
• Route:	☐ Subcutaned	•	☐ Intramuscular (iM)	
Site for glucagon inject     Gall 011 (Syverson as Madies			<del>-</del>	Other:
<ul> <li>Call 911 (Emergency Medica</li> <li>Contact the student's health</li> </ul>	•	ident's parents,	guardians.	
Student's usual symptoms of hyp				
<ul> <li>Check  Urine  Blood</li> <li>For blood glucose greater the insulin (see correction dose of Notify parents/guardians if b</li> <li>For insulin pump users: see A</li> <li>Allow unrestricted access to</li> </ul>	anmg/dL AN orders), olood glucose is over _ Additional Informatic	D at leastmg/	_ hours since last insulin do dL.	
<ul> <li>Give extra water and/or non</li> </ul>	-sugar-containing dri	nks (not fruit jui	ces): ounces per hou	ır.
Additional treatment for ketone	s:			
Follow physical activity and s	sports orders. (See <b>Ph</b>	ysical Activity a	nd Sports)	
If the student has symptoms of a student's parents/guardians and extreme thirst, nausea and vomit sleepiness or lethargy, or depress	health care provider. ing, severe abdomina	Symptoms of a Il pain, heavy br	hyperglycemia emergency	include: dry mouth,
Insulin therapy				
Insulin delivery device:	☐ Syringe		☐ Insulin pen	☐ Insulin pump
Type of insulin therapy at school	: 🗆 Adjustable (basa	ıl-bolus) insulin	☐ Fixed insulin therapy	☐ No insulin
117/4				

Insulin therapy (continued)	
Adjustable (Basal-bolus) Insulin Therapy	
Carbohydrate Coverage/Correction Dose: Name of insulin:	
Carbohydrate Coverage:	
•	unit of insulin per grams of carbohydra
Breakfast: 1 unit of insulin per grams of carbohydrate Snack: 1	unit of insulin per grams of carbohydra
Carbohydrate Dose Calculation Exam	
Total Grams of Carbohydrate to Be Eaten	Units of Insulin
Insulin-to-Carbohydrate Ratio	
Correction Dose: Blood glucose correction factor (insulin sensitivity factor) =	Target blood glucose =mg/c
Correction Dose Calculation Examp	
Current Blood Glucose - Target Blood Glucose	Units of Insulin
Correction Factor	
Correction dose scale (use instead of calculation above to determine insulin of	correction dose):
Blood glucose to mg/dL, give units Blood glucos	se to mg/dL, give units
Blood glucose to mg/dL, give units Blood glucos	se to mg/dL, give units
See the worksheet examples in <b>Advanced Insulin Management: Using Insulin-</b> instructions on how to compute the insulin dose using a student's insulin-to-carb	
When to give insulin:	
Breakfast	
☐ Carbohydrate coverage only	
☐ Carbohydrate coverage plus correction dose when blood glucose is greater last insulin dose.	r than mg/dL and hours since
□ Other:	
Lunch	
☐ Carbohydrate coverage only	
☐ Carbohydrate coverage plus correction dose when blood glucose is greater last insulin dose.	r than mg/dL and hours since
Other:	
Snack	
Snack  ☐ No coverage for snack	
Snack  No coverage for snack  Carbohydrate coverage only	r than mg/dL and hours since
Snack  ☐ No coverage for snack  ☐ Carbohydrate coverage only  ☐ Carbohydrate coverage plus correction dose when blood glucose is greater	

The state of the s							Committee of the latest and the late		
Insulin thera	<b>py</b> (cont	tinued)							
Fixed Insulin Ther	apy Na	ame of insulin:							
☐ Units of	insulin giv	ven pre-breakf	ast daily						
☐ Units of	insulin giv	ven pre-lunch (	laily						
☐ Units of	insulin giv	ven pre-snack (	aily						
☐ Other:									
Parents/Guardian	s Authori	ization to Adju	st Insulir	n Dose					
☐ Yes ☐ No Parents/guardians authorization should be obtained before administering a correction dose.									
							bohydrate ratio w grams of c		
		uardians are au _ units of insuli		to increase or	decrease fix	ked insulin dose	e within the follow	ing range:	
Student's self-care	e insulin a	administration	skills:						
☐ Independently	calculates	and gives owr	injectio	ns.					
☐ May calculate/g	give own i	injections with	supervis	ion.					
☐ Requires school supervision.	nurse or	trained diabet	es perso	nnel to calcula	ite dose an	d student can	give own injection	n with	
☐ Requires school	nurse or	trained diabet	ės perso	nnel to calcula	ite dose an	d give the inje	ction.		
				.````					
Additional int	formati	ion for stu	dent w	ith insulin	pump				
Brand/model of p	ump:			Ту	pe of insuli	in in pump:			
Basal rates during	school:	Time:	Basa	al rate:	7	Time:	Basal rate:		
		Time:	Basa	al rate:	1	Time:	Basal rate:		
		Time:	Basi	al rate:					
Other pump instru	actions: _				·				
		<del></del>							
Type of infusion se	et:					·			
Appropriate infusi	on site(s)	):				·			
☐ For blood gluco: failure or infusion	_		_		reased wit	hin hou	rs after correction	n, consider pump	
☐ For infusion site	failure: I	nsert new infu	sion set a	ind/or replace	reservoir,	or give insulin	by syringe or pen		
☐ For suspected p	ump failu	re: Suspend or	remove	pump and giv	e insulin by	syringe or pe	n.		
Physical Activity									
May disconnect fro	om pump	for sports activ	ities:	☐ Yes, for _	hou	rs		□ No	
Set a temporary ba	asal rate:			☐ Yes,	% temp	oorary basal fo	r hours	□ No	
Suspend pump use	::			☐ Yes, for _	hours	5		□ No	

#### Additional information for student with insulin pump (continued)

Student's Self-car	re Pump Skills		Indepe	ndent?
Counts carbohydrates			☐ Yes	□No
Calculates correct amount of insulin for ca	rbohydrates consum	ed	☐ Yes	□ No
Administers correction bolus			☐ Yes	□No
Calculates and sets basal profiles			☐ Yes	□No
Calculates and sets temporary basal rate			☐ Yes	□No
Changes batteries			☐ Yes	□ No
Disconnects pump			☐ Yes	□No
Reconnects pump to infusion set			☐ Yes	□No
Prepares reservoir, pod, and/or tubing			□Yes	□No
Inserts infusion set			☐ Yes	□ No
Troubleshoots alarms and malfunctions			☐ Yes	□No
Name:				
Name:	Dose:	Route:	Times	given:
Meal plan				
Meal plan  Meal/Snack	Time		Carbohydrate Co	ontent (grams)
Meal/Snack	Time			
Meal/Snack Breakfast	Time		to	ontent (grams)
Meal/Snack Breakfast Mid-morning snack	Time		to	
Meal/Snack Breakfast Mid-morning snack Lunch	Time		toto	
Meal/Snack Breakfast Mid-morning snack Lunch	Time		to	
Meal/Snack Breakfast Mid-morning snack Lunch Mid-afternoon snack			totototo	
Meal/Snack Breakfast Mid-morning snack Lunch Mid-afternoon snack			totototo	
Meal/Snack Breakfast Mid-morning snack Lunch Mid-afternoon snack Other times to give snacks and content/ar	mount:		tototo	
Meal/Snack Breakfast Mid-morning snack Lunch Mid-afternoon snack Other times to give snacks and content/ar	mount:		tototo	
Meal/Snack Breakfast Mid-morning snack Lunch Mid-afternoon snack Other times to give snacks and content/ar	mount:		tototo	
Meal plan  Meal/Snack  Breakfast  Mid-morning snack  Lunch  Mid-afternoon snack  Other times to give snacks and content/ar  Instructions for when food is provided to	mount: the class (e.g., as par	t of a class party o	to to to to to	
Meal/Snack  Breakfast  Mid-morning snack  Lunch  Mid-afternoon snack  Other times to give snacks and content/are  Instructions for when food is provided to	mount: the class (e.g., as par	t of a class party o	to to to to to	
Meal/Snack  Breakfast  Mid-morning snack  Lunch  Mid-afternoon snack  Other times to give snacks and content/are  Instructions for when food is provided to a special event/party food permitted:	mount: the class (e.g., as par Parents'/Guardians' d	t of a class party o	to to to to to	

Physical activity and sports	
A quick-acting source of glucose such as $\Box$ glucose tabs and/or $\Box$ sugar-containing juice must be available physical education activities and sports.	ilable at the site of
Student should eat □ 15 grams □ 30 grams of carbohydrate □ other:	
☐ before ☐ every 30 minutes during ☐ every 60 minutes during ☐ after vigorous physical activity	other:
If most recent blood glucose is less thanmg/dL, student can participate in physical activity when corrected and abovemg/dL.	blood glucose is
Avoid physical activity when blood glucose is greater thanmg/dL or if urine/blood ketones are	moderate to large.
(See Administer Insulin for additional information for students on insulin pumps.)	
Disaster plan	· · · · · · · · · · · · · · · · · · ·
To prepare for an unplanned disaster or emergency (72 hours), obtain emergency supply kit from parent	s/guardians.
☐ Continue to follow orders contained in this DMMP.	
☐ Additional insulin orders as follows (e.g., dinner and nighttime):	
(2,5,7,1111)	
□ Other:	
Signatures	9
This Diabetes Medical Management Plan has been approved by:	
Student's Physician/Health Care Provider	Date
I, (parent/guardian) give permission to the school r	
qualified health care professional or trained diabetes personnel of (school)	
and carry out the diabetes care tasks as outlined in (student)	Diabetes Medical gement Plan to all
school staff members and other adults who have responsibility for my child and who may need to know this	
maintain my child's health and safety. I also give permission to the school nurse or another qualified health ca	are professional to
contact my child's physician/health care provider.	
Acknowledged and received by:	
Student's Parent/Guardian	Date
Student's Parent/Guardian	Date
School Nurse/Other Qualified Health Care Personnel	Date
48.	

## Individualized Health Care Plan (IHP)

Student:		
School:		Ħ
Grade:	School Year:	
IHP Completed by:	Date:	
IHP Review Dates:		
Nursing Assessment Review Dates:		
Nursing Assessment Completed by:	Date:	

Nursing	Sample Interventions and Activities	Date	Sample Outcome	Date
Diagnosis		Implemented	Indicator	Evaluated
Managing Potential Diabetes Emergencies (risk for unstable blood glucose)	Establish and document student's routine for maintaining blood glucose within goal range including while at school:  • Where to check blood glucose:  □ Classroom □ Health room □ Other:  • When to check blood glucose: □ Before breakfast □ Mid-morning □ Before lunch □ After lunch □ Before snack □ Before PE □ After PE □ 2 hours after correction dose □ Before dismissal □ As needed □ Other: □ Student's self-care skills: □ Independent □ Supervision □ Full assistance • Brand/model of BG meter:  • Brand/model of CGM:		Blood glucose remains in goal range  Percentage of time 0% 25% 50% 75% 100%	

Diagnosis (continued)	and Activities (continued)	implemented (continued)	(continued)	Evaluated (continued)
Supporting the Independent Student (effective therapeutic regimen management)	Hypoglycemia Management STUDENT WILL:  Check blood glucose when hypoglycemia suspected  Treat hypoglycemia (follow Emergency Care Plans for Hypoglycemia and Hyperglycemia)  Take action following a hypoglycemia episode  Keep quick-acting glucose product to treat on the spot  Type:  Routinely monitor hypoglycemia trends r/t class schedule (e.g., time of PE, scheduled lunch, recess) and insulin dosing  Report to and consult with parents/ guardians, school nurse, HCP, and school personnel as appropriate		Monitors blood glucose and appropriately responds to results  Percentage of time 0% 25% 50% 75% 100%	
Supporting Positive Coping Skills (readiness for enhanced coping)	Create Positive School Environment  Ensure confidentiality  Discuss with parents/guardians and student preferences about how the school can support student's coping skills  Collaborate with parents/guardians and school personnel to meet student's coping needs  Collaborate with school personnel to create an accepting and understanding environment		Demonstrates positive coping  Percentage of time 0% 25% 50% 75% 100%	

# Hypoglycemia Emergency Care Plan (For Low Blood Glucose)

Student's Name:		
Grade/Teacher:		
Date of Plan:		
Emergency Contact Information		
Parent	1/0	Guardian
Email Address:	Home Phone:	
Work Phone:	Mobile:	
Parent	2/0	Guardian
Email Address:	Home Phone:	
Work Phone:	Mobile:	
Health Care Provider:		
Phone		Number
School Nurse:		
Contact	Ne	umber(s)
Trained Diabetes Personnel:		
Contact	No	umber(s)
The student should never be left alone, or sent anywhere alo	one or with another student, when experiencing hypo	glycemia
Causes of Hypoglycemia		
Too much insulin	Sudden—symptoms may progress rapidly	
Missing or delaying meals or snacks	.*0	
Not eating enough food (carbohydrates)		
<ul> <li>Getting extra, intense, or unplanned physical activity</li> </ul>		- 1

Circle student's usual symptoms.							
Mi	ld to Moderate	Severe					
<ul> <li>Shaky or jittery</li> <li>Sweaty</li> <li>Hungry</li> <li>Pale</li> <li>Headache</li> <li>Blurry vision</li> <li>Sleepy</li> <li>Dizzy</li> <li>Lightheaded</li> <li>Confused</li> </ul>	<ul> <li>Uncoordinated</li> <li>Irritable or nervous</li> <li>Argumentative</li> <li>Combative</li> <li>Changed personality</li> <li>Changed behavior</li> <li>Inability to concentrate</li> <li>Weak</li> <li>Lethargic</li> <li>Other:</li> </ul>	<ul> <li>Inability to eat or drink</li> <li>Unconscious</li> <li>Unresponsive</li> <li>Seizure activity or convulsions (jerking movements)</li> </ul>					

Actions for Treating Hypoglycemia								
	Notify school nurse or trained diabetes personnel as soon as you observe symptoms. If possible, check blood glucose (sugar) at side of finger. Treat for hypoglycemia if blood glucose level is less than mg/dL.  WHEN IN DOUBT, ALWAYS TREAT FOR HYPOGLYCEMIA AS SPECIFIED BELOW.							
	Treatment for Mild to Moderate Hypoglycemia		Treatment for Severe Hypoglycemia					
	Provide quick-acting glucose (sugar) product equal tograms of carbohydrates. Examples of 15 grams of carbohydrates are listed below:  • 4 glucose tablets  • 1 tube of glucose gel  • 4 ounces of fruit juice (not low-calorie or reduced sugar)  • 4-6 ounces (½ can) of soda (not low-calorie or reduced sugar)  Wait 15 minutes.  Recheck blood glucose level.  Repeat quick-acting glucose product if blood glucose level is less than mg/dL.  Contact the student's parents/guardians.  Once the student's blood glucose returns to normal, check the blood glucose level 1 hour later. Provide an additional source of carbohydrate (e.g., whole grain crackers, graham crackers, granola bar, yogurt, or fruit) if a meal or snack is not planned.		Position the student on his or her side.  Do not attempt to give anything by mouth.  Administer glucagon:mg atsite.  While treating, have another person call 911 (Emergency Medical Services).  Contact the student's parents/guardians. Stay with the student until Emergency Medical Services arrive.  Notify student's health care provider.					

## Hyperglycemia Emergency Care Plan (For High Blood Glucose)

The second secon	
	1/Guardian
Home Phone:	
Mobile:	
	2/Guardian
Home Phone:	
Mobile:	
	Number
	Number(s)
	Number(s)
Onset of Hyperglycemia	
Over several hours or days	- 100 mg - 1
	Home Phone:  Home Phone:  Mobile:  Onset of Hyperglycemia

#### Hyperglycemia Emergency Symptoms Hyperglycemia Symptoms Diabetic ketoacidosis (DKA), which is associated with hyperglycemia, ketosis, and dehydration Circle student's usual signs and symptoms. • Increased thirst and/or dry mouth • Dry mouth, extreme thirst, and dehydration • Frequent or increased urination Nausea and vomiting • Change in appetite and nausea • Severe abdominal pain Blurry vision · Fruity breath • Fatigue • Heavy breathing or shortness of breath • Other: \_ • Chest pain · Increasing sleepiness or lethargy • Depressed level of consciousness

Actions for Treating Hyperglycemia							
Notify school nurse or trained diabetes personnel as soon as you observe symptoms.							
	Treatment for Hyperglycemia		Treatment for Hyperglycemia Emergency				
	Check the blood glucose level.  Check urine or blood for ketones if blood glucose levels are greater than mg/dL.		Call parents/guardians, student's health care provider, and 911 (Emergency Medical Services) right away.				
	Calculate the Insulin Correction Dose needed as specified in the DMMP.		Stay with the student until Emergency Medical Services arrive.				
	Administer supplemental insulin dose: (If student uses a pump, see instructions below.)						
	Give extra water or non-sugar-containing drinks (not fruit juices): ounces per hour.						
	Allow free and unrestricted access to the restroom.  Recheck blood glucose every 2 hours to determine						
	if decreasing to target range of mg/dL.  Restrict participation in physical activity if blood glucose is greater than mg/dL and if ketones						
	are moderate to large. Notify parents/guardians if blood glucose is greater						
For	than mg/dL or if ketones are present. Students Using an Insulin Pump						
•	If student uses a pump, check to see if the pump is connected properly and functioning by giving a correction bolus through the pump and checking the blood glucose 1 hour later. If moderate or large ketones are present, treat ketones with a subcutaneous injection of insulin, then change pump site or initiate pump back-up plan. For infusion site failure: insert new infusion set and/or replace reservoir or pod, or give insulin by syringe or pen.						
•	For suspected pump failure: suspend or remove pump and give insulin by syringe or pen.						



Student:

#### **CONFIDENTIAL**

# Upland Unified School District DIABETES HEALTH MEMORANDUM

School Year:

Date of Birth:

Teacher:	School:					
<ul> <li>The above named student has diabetes. If the student is symptomatic, please have him/her</li> <li>ESCORTED to the Health Office with a buddy, or call the Health Office for assistance X</li> <li>If student feels ill or needs to test glucose levels, please allow him/her to go to the Health Office.</li> <li>Allow student to access fast acting sugar i.e. juice, regular soda, glucose tabs.</li> <li>Allow student to carry a water bottle and have unrestricted bathroom privileges.</li> </ul>						
	HYPERGLYCEMIA (high blood sugar)					
•	Symptoms:					
Ski Let Sw Fru Na Ch He	Skin becomes warm, dry, flushed Lethargic Sweaty Fruity breath odor Nausea, vomiting Changes in vision Headache, confusion Thirst and urination increase					
es Syn	nptoms worsen over days					
Additional Information;  1. Substitute teachers must be aware of this student's health situation.  2. All necessary supplies will accompany student on all field trip.  3. Notify School Nurse or for any questions or concerns: ext or  4. Respect the student's confidentiality and right to privacy.						
	betes. If the student is e with a buddy, or call is to test glucose levels st acting sugar i.e. juic vater bottle and have un  EFERENCE FOR DI Sugar)  Syr  Ski Let Swe Fru Nau Cha Hee Thi es  Syn  be aware of this stud accompany student or or or					

04/2017