

# Diabetes Therapy Cheat Sheet by That\_\_nurse via cheatography.com/154639/cs/33146/

Types of Insulin and Examples		
Rapid-acting analogue	Lispro, Aspart, Glulisine	
Short-acting (clear)	Regular (Humulin R)	
Intermediate-acting (cloudy)	NPH	
Extended Long-acting analogue (clear)	Lantus	
Premixed		

Intermediate insulin is the only insulin that can be mixed with short or rapid insulin.

When preparing mixed insulin it is important to draw the short insulin first before the intermediate insulin to prevent contamination due to the cloudy nature.

Insulin is administered subcutaneously, insulin pen or IV with supervision.

Preferred site is the abdomen and should be rotated within that particular site.

### **Problems with Insulin Therapy**

Hypoglycemia

Allergic reactions

Lipodystrophy: Hypertrophy or atrophy of subcutaneous tissue

Somogyi Effect: High blood glucose level in the morning which leads to an increased dose of insulin given and further decreases the blood glucose level due to too much insulin

Dawn Phenomenon: Hyperglycemia present when an individual wakes up in the morning. Seems to be severe with growth hormone present.

Common Oral Antihyperglycemic Agents						
	Primary Function	Common examples				
Insulin Secretago- gues/ Sulphonyl- ureas	Increase beta- cell insulin production from the pancreas	Gliclazide				
Meglit- inides	Increase insulin production from the pancreas	Repagl- inide				
Biguanides	Reduce glucose production by the liver. Increase the sensitivity at the tissue level and improves glucose transport.	Metformin (Only examples in this class)				

Metformin does not lead to weight gain

## **Nutritional Therapy**

Type 1 DM food intake is based on increasing caloric intake to ensure desirable body weight and restore body tissues.

Type 2 DM is more of weight loss.

Major points are to eating three meals per day at regular times and no more than 6 hours apart.

Limiting sugar, sweets, high fat food and eating more high fibre foods.

Drinking water if thirsty and more physical activity.

Glycemic Index and percentages of food classification should be considered

#### Exercise

Exercise increases insulin sensitivity and has a direct impact on decreasing blood glucose.

A total of 150 minutes of moderate intensity aerobic activity over 3 days

However, with patients on insulin there is an increased risk of hypoglycemia with exercise.

It can last for 48 hours. Exercise should be scheduled I hour after a meal or snack should be taking before exercise.

### **Acute Complications of DM**

	Hyperg- lycemia	Hypoglycemia
Manife sta- tions	Abdominal cramps, blurred vision, glycosuria, headache, increased appetite, polyuria, nausea, vomiting, progression to DKA or HHS, weakness and fatique	Blood glucose less than 4.0, vision changes, cold and clammy skin, faintness, dizziness, headache, hunger, numbness of fingers, toes and mouth, rapid heart beat, seizures, coma, unsteady gait and slurred speech.
	and lallyue	



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## Acute Complications of DM (cont)

Manife-	Abdominal	Blood glucose
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sta-	cramps,	less than 4.0,
tions	blurred	vision changes,
	vision,	cold and clammy
	glycosuria,	skin, faintness,
	headache,	dizziness,
	increased	headache,
	appetite,	hunger,
	polyuria,	numbness of
	nausea,	fingers, toes and
	vomiting,	mouth, rapid heart
	progression	beat, seizures,
	to DKA or	coma, unsteady
	HHS,	gait and slurred
	weakness	speech.
	and fatigue	
Causes	Corticost-	Alcohol intake

eroids, without food, diabetic stress, illness, medication taken infection, at the wrong time, poor loss of weight, too little food, too absorption or lack of much diabetic insulin, too medication, too much food, much exercise, too little use of beta insulin. adrenegic blockers.

## **Diabetic Ketoacidosis**

Overview: This is an acute metabolic complication of DM. This is because of lack of insulin the body breaks down fat.



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