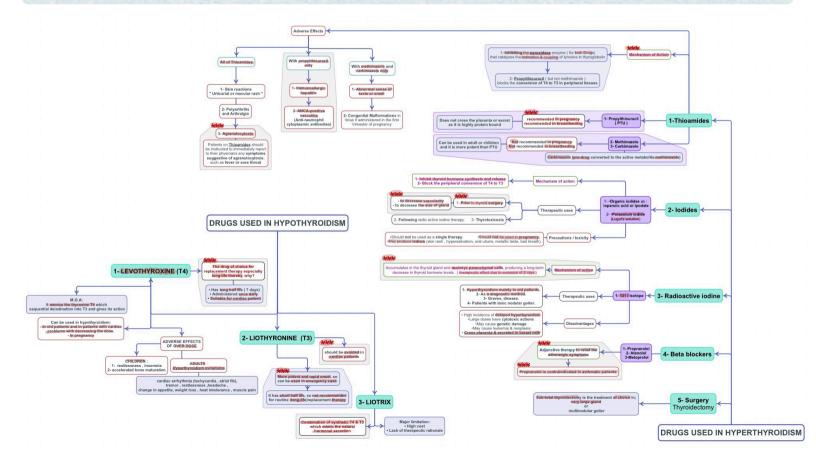
Pharmacology's Review file

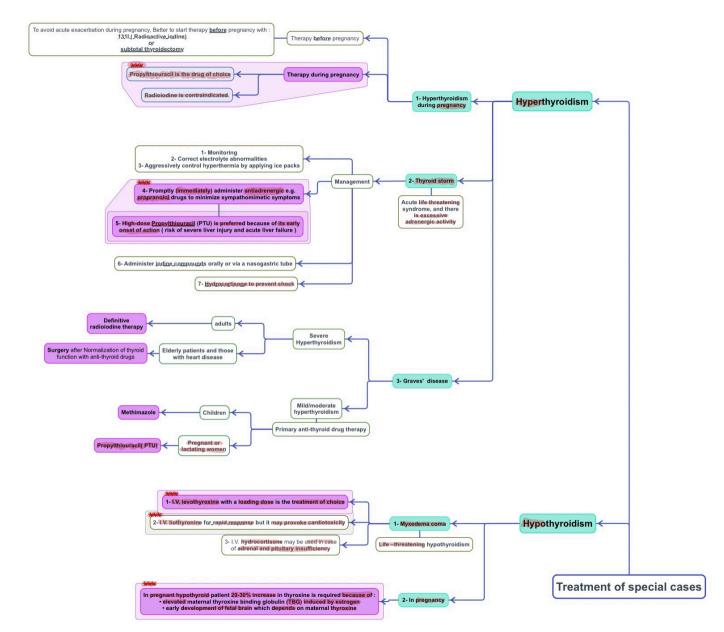
" Endocrine block "

Done by:

<u>Hatim Alnaddah & Rawan Saad</u>

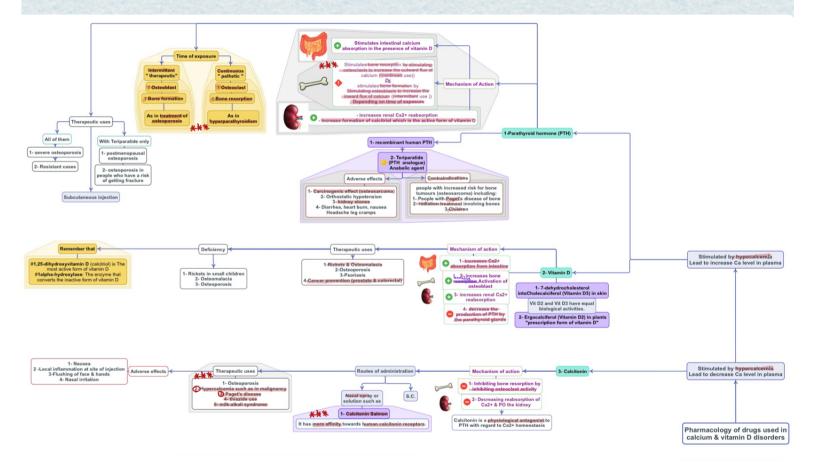
Summary of (Hyperthyroidism & Hypothyroidism)





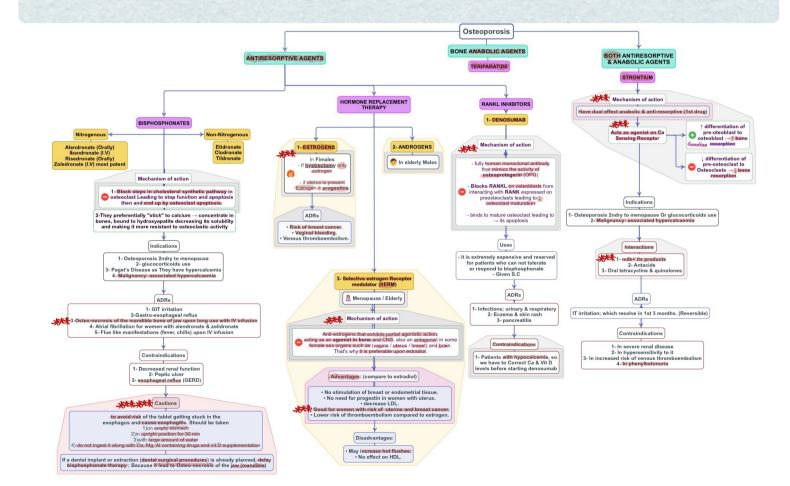
Q1: Patient with which one of the following A- Lithium. for Hypo	ing drugs is need to be assess B- Amiodarone. for both	ed with the thyroid function test frequently ? h Hyper & Hypo. C-Both of them					
 Q2: Which one of the following describe the main mechanism of action of propylthiouracil ? A- Block the Conversion T3 into T4 in the peripheral. B- Destroys the parenchymal cells of thyroid gland by beta rays. C- Inhibit the peroxidase enzyme centrally in thyroid gland. 							
Q3: What is the drug of choice in treatment of hyperthyroidism in pregnant women ? A-Methimazole. B- Propylthiouracil. C- Propranolol.							
Q4: Why propylthiouracil is drug of choic A- It does Crosses placenta because it hydroph B- It is highly protein bound. C-It has low incidence of delayed hypothyroidisr	obic.	ism in pregnancy ?					
-	mended to be used before thy	roidectomy to decrease the possibility of bleeding from					
thyroid vessels ? A- Thioamides.	B- Radioactive iodine.	C-Lugol's solution or (KI).					
Q6: Which one of the following describe the mechanism of action of radioactive iodine ? A- Decrease both vascularity & size of thyroid gland by inhibiting the mitosis. B- Destroys the parenchymal cells of thyroid gland by beta rays. C- Inhibit the peroxidase enzyme centrally in thyroid gland.							
Q7:Which one of the following line of tre emission of β rays ?	atment of hyperthyroidism act	ing by destruction of thyroid's parenchyma due to					
A- Thioamides.	B- Radioactive iodine.	C- Lugol's solution					
Q8:Which one of the following line of treatment of hyperthyroidism may safe the life of patient especially if he has tachycardia and sever palpitation a long with her hyperthyroidism ? A- Thioamides. B- Radioactive iodine. C- β-blockers.							
Q9: Patient who had hyperthyroidism and used anti-thyroid drug, he suddenly developed thyroid storm which is emergency situation. He had sever palpitation and other excessive adrenergic activity. Which one of the following is considered as essential first step to be given in like this condition ? A-Methimazole. B- Radioactive iodine.							
Q10: A 42 years old female came to the clinic and complain of weakness & fatigue and lack of energy and weight gain. Also she mentioned that she has cold intolerance and her hairs started to be brittle. The physician request the thyroid function test and the result shows there is markedly decreased in the level of both T3 & T4. Which drug of the following is the drug of choice in her case for long life thereby? A- Liothyronine. B- Levothyroxine. C- Liotrix.							
Q11: Which drug can be used in emerge	ncy case due to its rapid of on	set and its potent effect ?					
A- Liothyronine.	B- Levothyroxine.	C- Liotrix.					
Q12:Which drugs of the following is highly contraindicated in patient with cardiac disease due to its cardiotoxicity ? A- Liothyronine. B- Levothyroxine. C- Liotrix.							
Q13: Which drugs of the following is acti A- Liothyronine.	ing by mimicking the natural he B- Levothyroxine.	ormonal secretion of thyroid gland? C- Liotrix.					
Q14: Why is it essential to increase the c A- The elevated estrogen induced the thyroxine B- The maternal thyroxine is essential for develo C- Both of them.	binding globulin.	hypothyroidism during pregnancy ?					
 Q15: 56 years old Patient who is diagnosed with hypothyroidism with weight gain, cold intolerance, fatigue and lack of energy and brittle nails. The doctor prescribed 0.46 mg tablets of drug as treatment. Three day later, his symptoms completely changed to the opposite. He develop tremor, heat intolerance, weight loss and clubbing of the fingers. What is the underlying cause behind this condition? A- he develops lodism and overdose of iodine. B- he develops secondary hyperthyroidism. C- he develops overdose of levothyroxine. 							

Summary of (Calcium and Vitamin D)



Q1: What is the stimulus for parathyroid hormones to be secreted from parathyroid gland ?							
A- Hypercalcemia.	B- Hypocalcaemia.	C- Low phosphate concentration in plasma.					
Q2: What is the stimulus for calcitonin hormones to be secreted from thyroid gland ?							
A- Hypercalcemia.	B- Hypocalcaemia.	C- High phosphate concentration in plasma.					
Q3: Which one of	Q3: Which one of the following methods is preferred to be used in case of PTH & Teriparatide to treat osteoporosis ?						
A- Continuous.	B- intermittent.	C- Both of them.					
Q4: Which one of the following increase the rate of bone resorption ?							
A- Continues administration of Teriparatide. B- Intermitted administration of PTH. C- Both of them.							
Q5: Which one of the following is shown carcinogenic effect in animal experimentation and increase the risk of							
osteosarcoma ? A- Chronic exposure		B- continuous administration Teriparatide. C- Vitamin D toxicity.					
A- Chronic exposure	elo PTH.	B- continuous administration renparatide. C- vitamin D toxicity.					
Q6: Which one of the following is recommended in people with Paget's disease ?							
A- Vitamin D.	B- Teripara	atide. C- Calcitonin					
	•	be avoided in people with Paget's disease ?					
A- Vitamin D.	B- Teripara	tide. C- Calcitonin.					
Q8: Which one of the following may lead to develop renal stone?							
A- Vitamin D.	B- Teripara	atide. C- Calcitonin.					
		rochloro <mark>thiazide</mark> as diuretic, which one of the following is recommended in his case					
A- PTH.	al plasma level of cal B- Teripa						
A- PTH.	B- Teripa	adverse effect of which one of the following treatment? ratide. C- Calcitonin.					
Odd. Detient with	n antia vila ava vvaa tua	and hy siving a lat of will, and showhalls all alian which says ad match alian					
Q11: Patient with peptic ulcers was treated by giving a lot of milk and absorbable alkaline which caused metabolic alkalosis and electrolytes disturbance, which one of the following can be used to correct his plasma level of calcium ?							
A- PTH.	B- Teripa						
Q12:Which one has more affinity towards human calcitonin receptors ?							
A- Recombinant hur		itonin Salmon. C- Synthesized calcitonin.					
Q13: 5 years old child who has Rickets, which one of the following can be helpful to be given to him ?							
A- Teriparatide.	B- Vitami						
O14 Which care	f the following has al	own protective effect against colorectal concer 2					
A- Teriparatide.	B- Vitami	own protective effect against colorectal cancer ? n D. C- Calcitonin.					

Summary of (Osteoporosis)



 Q1: 52 years old female. Three years ago she has diagnosed with uterine cancer. She had a surgery to remove the entire uterus. Now she develop primary osteoporosis. Which one of the following drug can be used in her case ?

 A. Estrogen.
 B. Progesterone.
 C. Both of them

Q2: Which one of the following anti-osteoporotic Drugs should be avoided to be taken along with milk containing products?

A. RANKL inhibitors. B. Strontium. C. SERM

 Q3: Which route of administration of bisphosphonate
 is recommended in patient with esophagitis
 to treat osteoporosis ?

 A. Orally.
 B. Inhalation.
 C. Intravenously.

Q4: A 70-year-old female who is being started on ibandronate once monthly for the treatment of osteoporosis. Which of the following is important to communicate to this patient?

A. Take this medication with orange juice to increase absorption.

B. Avoid to take this medication along with milk or other calcium containing substance.

C. Remain upright for at least 60 minutes after taking this medication.

D. Both B & C .

 Q5: Which one of the following drugs may induce osteonecrosis of jaw bone in clinical practice ?

 A. Raloxifene.
 B. strontium ranelate.
 C. Risedronate.

 Q6: Which one of the following is the strongest
 drugs to treat the osteoporosis ?

 A. Risedronate.
 B. strontium ranelate.
 C. Denosumab.

 Q7: Which one of the following is the major class predominantly used to treat osteoporosis clinically ?

 A. Bisphosphonates.
 B. RANKL inhibitors.

 C. Estrogen Analogues

 Q8: Which one of the following drugs is the best choice to treat osteoporosis in women in clinical practice ?

 A. Estrogen analogue.
 B. Progesterone analogue.

 C. Raloxifene.

 Q9: 49 years old female is diagnosed with pelvic inflammatory disease and she has high risk to develop uterine cancer, which one of the following is the drugs of choice to treat postmenopausal osteoporosis ?

 A. Estrogen analogue.
 B. Progesterone analogue.
 C. Raloxifene.

Q10: A 78-year-old woman with known osteoporosis presents to her primary care physician for follow- up. She is amanaged with alendronate. Physical examination reveals a woman with a height of 5 ft 3 in and weight of 143 lb. The most likely effects on bone would be which of the following?

A- Increased osteoblastic bone resorption

B- Inhibition of cholesterol biosynthesis

C- Inhibition of osteoclastic apoptosis

D- Inhibition of osteocyte activation

Q11: Which one of the following act by mimicking the activity of osteoprotegerin and prevent the maturation of osteoclast ?

A. Risedronate.

B. strontium ranelate.

C. Denosumab.

 Q12: Which one of the following is highly contraindicated to be given to patient with hypocalcemia ?

 A. Alendronate.
 B. Raloxifene.

 C. Denosumab.

 Q13: Which one of the following is contraindicated to be used in patient with phenylketonuria
 to treat osteoporosis ?

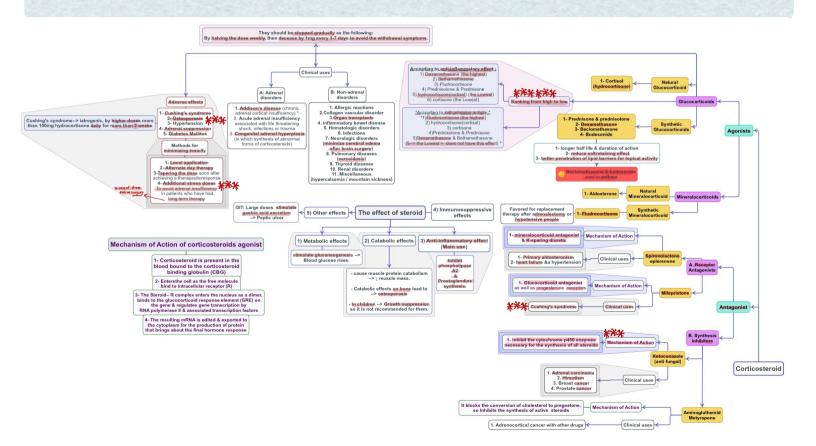
 A. Risedronate.
 B. strontium ranelate.
 C. Denosumab.

Q14: All of the following are adverse effects of estrogen analogue as a drug except : A. Vaginal bleeding. B. Breast cancer. C. Change in blood coagulation. D. delay postmenopausal age.

 Q15: Which one of the following act by mimicking the action of calcium on its sensing receptors
 and have dual action in treatment of osteoporosis?

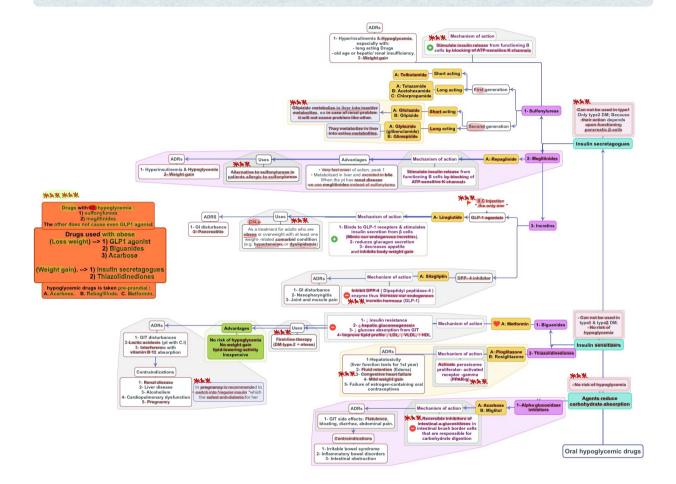
 A. Raloxifene.
 B. strontium ranelate.
 C. Denosumab.

Summary of (Cortticosteroids)



Q1: Which one of the follow	ving Drugs can be use	ed to treat patient wi	th Cushing's disease ?			
A. Dexamethasone.	B. Mifepristone.	C. Spironolactone				
Q2: Which one of the follow	ving is one of <mark>most co</mark>	mmon side effect of	steroid therapy ?			
A. Induced Adrenal tumor.	B. Weight loss.	C. Osteoporosis				
Q3: Which one of the follov A. Block the action of cytokines B. Inhibit phospholipase A2 and C. Inhibit the migration of neutro	and chemokine. prostaglandin synthesis.	anism in which gluc	ocorticoids act as anti-i	nflammatory drugs ?		
Q4:Which corticosteroids	oossess the highest m	ineralocorticoid fun	ction ?			
A. Hydrocortisone.	B. Fluprednisolone	. C. Fludro	cortisone.			
Q5: Corticosteroids are us	eful in the <mark>treatment</mark> o	of all of the following	disorders except:			
	B. Allergic rhinitis.	C. Cushing sy		tory bowel disease.		
Q6: Osteoporosis is a majo A. Increase the excretion of calo Q7: A child's with severe a	sium. B. Inhibit al	bsorption of calcium.	C. Decrease collagen synth	esis.		
adverse effects is of partic	-	a with high acces of	innaled <mark>oortioosterolus</mark> .	which of the following		
A. Hypoglycemia.	B. Hirsutism.		C. Growth sup	pression.		
Q8: The diagnosis of <mark>cong</mark> e treated by Administering :	enital adrenal hyperpl	<mark>asia</mark> (CAH) is confirr	nedin a child. This condi	tion can be effectively		
A. Glucocorticoid.	B. Androgen a	antagonist.	C. ketoconazo	le		
Q9: A patient with Addison disease is being treated with hydrocortisone but is still having problems with dehydration and hyponatremia. Which of the following drugs would be best to add to the patient's therapy? Problems with following drugs would be best to add to the patient's therapy? A. Dexamethasone. B. Fludrocortisone. C. Prednisone.						
Q10: Which one of the foll lowest salt retaining effect		id shows <mark>predomina</mark>	ntly anti-inflammatory e	ffect and possess the		
A. Hydrocortisone.	B. Prednisone.		C. De	xamethasone.		
Q11: Comparing to Cortiso	/Hydrocortisone the	synthetic alucacort	icoids are preferred to h	e used due to .		
A. Rapid onset of action.	• •	orticoid effect.		r penetration of lipid barrier.		
Q12: 49 years old patient infection. How can his A. Tapering the dose before the B. Give him the drug daily instea C. Give him additional stress do	doctor adjust the dose surgery to the half. ad of alternate day thereby	of cortisol before s		ry after systemic		
Q13: Which is contraindica A. Aldosterone.	ted in a patient with <u>h</u> B. Ketoconazole.	yperkalemia ?	C. Spironolacto	ne.		
Q14: Which one of the follo A. Aldosterone.	owing drugs act by in	hibiting the synthesi B. Ketoconazo		C. Spironolactone		

<u>Summary of (Oral hypoglycemic drugs)</u>



Q1: Which one of the following oral hypoglycemic drugs can be used in case of diabetic patient with renal disease ? A. Glyburide. B. Repaglinide. C. Metformin. D. Glimepiride.

 Q2: All of the following hypoglycemic drugs can be used as treatment for both type 1&2 diabetes , EXCEPT :

 A. Acarbose.
 B. Pioglitazone.

 C. Metformin.
 D. Liraglutide.

Q3: Sulfonylureas and Meglitinides act as insulin secretagogues mainly by which one of the following mechanism?

A. Opening the ATP dependent K+ channels.

B. Blocking the ATP dependent K+ channels.

C. Opening the voltage-dependent Ca2+ channels.

D. Blocking the voltage-dependent Ca2+ channels.

Q4: which one of the following describe the mechanism of Pilogiltazone as anti diabetic drug ?

A- inhibit the gluconeogenesis by the liver

B- it inhibit alpha glucosidase in intestine

C- maintain high level of incretin in plasma.

D- activate the PPAR gamma

 Q5: Newly patient who was prediabetes, he is diagnosed now with type 2 diabetes. The medical history relieves that he can not tolerance Sulfasalazine or sulfamethoxazole. Which one of the following drugs can be safe to be used in his case ? A. glibenclamide.
 B. Repaglinide.
 C. Glipizide.
 D. Glyburide.

 Q6: Which one of the following hypoglycemic drugs would be least likely to cause hypoglycemia ?

 A. Glimepiride.
 B. Glyburide.
 C. Repaglinide.
 D. Dulaglutide.

 Q7: which one of the following hypoglycemic drugs is taken pre-prandial ?

 A. Acarbose.
 B. Rebaglilinde.
 C. Metformin.
 D. All of them.

Q8: Which one of the following hypoglycemic drugs is taken by injection once a wake rather than orally ? A. Liraglutide. B. Sitagliptin. C. Repaglinide. D. Both A & B.

 Q9: Sulfonylureas are class of oral diabetes drugs which excreted mainly by kidney in urine. Which one of these drugs has the least risk to develop hypoglycemia in patient with renal insufficiency?

 A. glibenclamide.
 B. Glimepiride.
 C. Glipizide.
 D. Glyburide

 Q10: Which of the following drugs for diabetes would be
 LEAST likely to cause weight gain?

 A. Metformin.
 B. Liraglutide.
 C. Pioglitazone.
 D. Both A & B.

Q11: 37 years old male who is obese and has diagnosed as prediabetes. His blood glucose and lipid is significantly high. He failed to loss his weight with diet and exercise. Which one of the following drugs is first line of treatment in his case?

A. Sitagliptin. B. Metformin. C. Repaglinide. D. Both A & C.

Q12: A 32 years old male who is diabetic. He did not tell his doctor that he drinks alcohol almost daily. The doctor prescribed metformin for him. Which one of the following adverse effect could be seen in this patient? A. pancreatitis. B. urinary tract infections. C. Liver cirrhosis. D. Lactic acidosis.

 Q13: A 64-year-old woman with a history of type 2 diabetes is diagnosed with heart failure. Which of the following medications would be a poor choice for controlling her diabetes?

 A. Sitagliptin
 B. Glyburide.
 C. Repaglinide.
 D. Pioglitazone.

Q14: 21 years old female, her family have history of diabetes type2. She did oral glucose tolerance test. And the result was 156mg/dl which mean she is a prediabetes. Which one of the following can be used alone in this early stage to control her blood glucose level ?

A. Dulaglutide. B. Rebaglilinde. C. Acarbose. D. All of them.

Q15: Which one of the following hypoglycemic drugs is preferable to be used in diabetic patient who is obese or hypertensive or even with high lipid profile ?

A. Liraglutide. B. Metformin. C . Repaglinide. D. Both A & B

Q16: Which one of the following anti-diabetic drug mayinterference with vitamin B12 absorptionif it use for long term ?A. Liraglutide.B. Metformin.C . Repaglinide.D. glibenclamide.

Q17: Which one of the following describe the mechanism of Sitagliptin as anti diabetic drug?

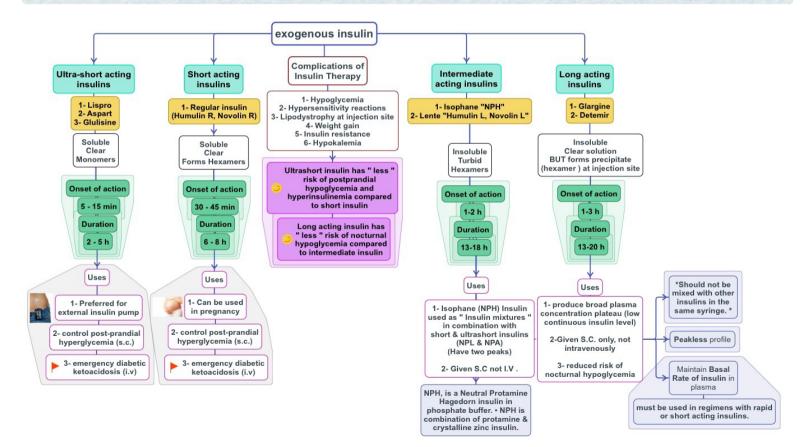
A- inhibit the gluconeogenesis by the liver

B- it inhibit alpha glucosidase in intestine

C- maintain high level of incretin in plasma.

D- activate the PPAR gamma.

Summary of (Exogenous Insulin)



Q1: The main route of administration of insulin is : A. Intravenous.

B- Subcutaneous. C- Intramuscular.

D. Orally.

Q2: Which one of the following preparation of insulin can be given Intravenously? C. NPH insulin. A. Insulin glargine. B. Humulin Lente. D. Humulin regular

Q3: In invitation, which preparation of insulin is recommended to be taken with diabetic patient to reduce the waiting time before eating ?

A. Insulin aspart. C. NPH insulin. B. Insulin glargine. D. Regular insulin.

Q4: Which one of following preparation of insulin is preferable to be used in pregnant women? A. Insulin aspart. B. Insulin glargine. C. NPH insulin. D. Regular insulin.

Q5: Which one of the following preparation of insulin has lowest risk to develop hypoglycemia ? A. Insulin aspart. B. Humulin Lente. C. NPH insulin. D. Regular insulin.

Q6: Which one of the following preparation of insulin has two peaks ? A. NPH insulin. B. Humulin Lente. C. NPL insulin. D. Humulin regular.

Q7: All of the following mimic the prandial mealtime insulin release EXCEPT: A. Insulin aspart. B. Humulin regular. C. NPL insulin. D. Insulin detemir.

Q8: Which one of the following preparation of insulin should not be mixed with other form of insulin in the same syringes ? C. NPH insulin. A. Insulin aspart. B. Insulin glargine. D. Regular insulin.

Q9: Which one of the following preparation of insulin is recommended to reduce the incidence of nocturnal hypoglycemia and maintain a baseline insulin thereby ? C. NPH insulin.

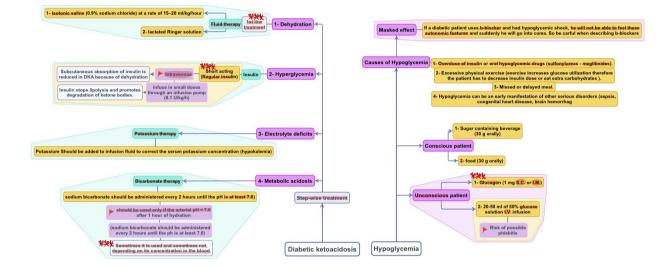
A. Insulin aspart. B. Insulin glargine. D. Regular insulin.

Q10: Which one of the following preparation of insulin has lowest risk to develop hypoglycemia ? A. Insulin glargine. B. Humulin Lente. C. NPH insulin.

Q11: Diabetic patient who is going to increase his physical activity and exercise to loss some kilograms. How can the doctor adjust his insulin dose according to that ? B. by reducing the dose. C. by adding one of oral hypoglycemic drugs. A. By doubling the dose.

Q12: Which one of the following preparation of insulin can be used in case of ketoacidosis? C. Humulin regular. A. Insulin aspart. B. Insulin lispro. D. all of them.

Summary of (Ketoacidosis & Hypoglycemia)



Q1: Which one of the following is considered as initial step in treatment of ketoacidosis? A. 0.9% sodium chloride. B. Regular insulin. C. Potassium replacement. D. sodium bicarbonate

Q2: Which one of the following steps can be skipped sometimes in case of ketoacidosis management? A. 0.9% sodium chloride. B. Regular insulin. C. Potassium replacement. D. sodium bicarbonate

 Q3: Which one of the following preparation is commonly use to treat ketoacidosis in clinical practice ?

 A. I.V Insulin lispro.
 B. S.C. Insulin glargine.
 C. I.V Regular insulin.
 D. I.V NPH insulin.

Q4: In which dose the regular insulin is given intravenous infusion ? A. 0.01 U/kg/h. B. 0.05 U/kg/h. C. 0.1 U/kg/h. D. 0.2 U/kg/h.

Q5: 10 years old child came to ER with fruity breath, he was with hot and dry skin, his mother said that his child tend to be thirsty all the time. The biochemical investigation shows (Blood glucose level : 267 mg/dl, Arterial PH : 7.37, dehydration with ketonuria). How can we mange his case ?

- A. Isotonic saline + Humulin regular + Potassium replacement + Sodium bicarbonate.
- B. 0.9 % sodium chloride + Humulin Lente + Potassium replacement + Sodium bicarbonate.
- C. Isotonic saline + Humulin regular + Potassium replacement.
- D. 0.9 % sodium chloride + Humulin regular + Sodium bicarbonate.

Q6: 58 years old male who fall down due to hypoglycemic coma. How can be treated In this situation? A. By giving him orange juice. B. By giving him I.V regular Insulin. C. By giving him I.M Glucagon. D. All of them.

 Q7: Which one of the following insulin preparations
 should be avoided in diabetic ketoacidosis?

 A) A. Glulisine.
 B. Humulin regular.
 C. Novolin regular.
 D. Glargine Insulin.