Endocrine

Pharmancology PD)Fiade

Test-Bank

By Lama Abuismail

* * *	***************************************	* *
****	Thyroid hormones lect.5	****
********	 The enzyme responsible for the critical steps in thyroid hormone synthesis is comparable to which of the following in its function?* A. Deiodinase in converting T4 to T3 B. Thyroid peroxidase in oxidation and coupling C. Lysosomal enzymes in hydrolysis of thyroglobulin D. TBG in hormone transportation 	*******
********	 2. *Which enzyme plays a pivotal role in the peripheral conversion of a less active hormone to a more active form?* A. Thyroid peroxidase B. Deiodinase C. Lysosomal enzyme D. TBG 	*********
*********	 3. *Thyroid hormones are transported in the bloodstream primarily bound to which specific protein, ensuring their bioavailability?* A. Albumin B. Hemoglobin C. Thyroxine binding globulin (TBG) D. Transferrin 	*********
·***	*****	·***

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*		4
*	1 *The thursid gland primarily produces a hormona	÷
*	4. The thyrold gland primarily produces a normone	{
ボ	in a marine and ticeway M/hat is the matin of these	۲ ۲
不 ※	in peripheral tissues. What is the ratio of these	< {
*	normones within the thyroid content?*	÷
*	- A. 1:1	÷
*	- B. 2:1	÷
*	- C. 3:1	{
彩火	- D. 4:1	۲ ۲
~ ※		` {
*	5. *What percentage of the more potent thyroid	÷
*	hormone is produced outside the thyroid gland	÷
*	through conversion?*	{
*	- A. 20%	÷
ネ	- B. 50%	۲ ۲
※	- C. 80%	< <
*	- D. 100%	4
*		÷
*	6. *Comparatively, which thyroid hormone	{
*	demonstrates a higher affinity for nuclear receptor	÷ <
ネ	proteins, thus exerting a greater physiological effect?*	₹ €
*	- A. T4	` {
*	- B. T3	÷
*	- C. Both equally	÷
*	- D. Neither	{
ド		、 く
※		` {
*		4
*		÷
*		{
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*******	 7. *Which of the following effects is unlikely to result from the hormonal activity of the thyroid gland?* A. Enhanced growth and development B. Elevated cholesterol levels in the blood C. Increased gastrointestinal motility D. Enhanced lipolysis 	*******
*******	 8. *Increased sensitivity of tissues to sympathetic stimulation is a result of an upregulation in which type of receptors due to thyroid hormone activity?* - A. Alpha-adrenergic receptors - B. Beta-adrenergic receptors - C. Dopaminergic receptors - D. Serotonergic receptors 	*******
********	 9. *Which thyroid hormone predominantly remains bound in the bloodstream, indicating a greater storage capacity and slower release into the tissues?* A. T3 B. T4 C. Both equally bound D. Neither 	*******
********	****	******

 ** 10. *The term 'cretinism' is associated with which ** endocrine disorder in children?* ** - A. Hyperthyroidism ** - B. Hypothyroidism ** - C. Cushing's syndrome ** - D. Addison's disease ** ** ** 11. *Which autoimmune condition is known for ** **
 * Inelterin cretinish is associated with which * endocrine disorder in children?* * A. Hyperthyroidism * B. Hypothyroidism * B. Hypothyroidism * C. Cushing's syndrome * D. Addison's disease * * * 11. *Which autoimmune condition is known for * *
 * endocrine disorder in children: * A. Hyperthyroidism * B. Hypothyroidism * C. Cushing's syndrome * D. Addison's disease * 11. *Which autoimmune condition is known for * environ ethors be of the theoretical elemed 2*
 A. Hypertifyfoldisin B. Hypothyroidism C. Cushing's syndrome D. Addison's disease * *
 B. Hypothyroldishi C. Cushing's syndrome D. Addison's disease * *
 C. Cushing's syndrome * - D. Addison's disease * * * 11. *Which autoimmune condition is known for * *
 ★ - D. Addison's disease ★ ★ ★ ★ 11. *Which autoimmune condition is known for ★
★ 11. *Which autoimmune condition is known for ★
* 11. * Which autoimmune condition is known for *
* causing atrophy of the thyroid gland?*
★ - A. Graves' disease
- B. Addison's disease
★- C. Hashimoto's thyroiditis★
☆ - D. Cushing's syndrome *
* *
* Answer: C. Hashimoto's thyroiditis*
$\frac{12}{3}$ 12. *An individual presents with cold intolerance,
☆ lethargy, and weight gain despite decreased appetite.
✤ These symptoms most likely indicate:*
- A. Hyperthyroidism
* - B. Hypothyroidism *
- C. Diabetes mellitus
☆ - D. Cushing's syndrome
*
* Answer: B. Hypothyroidism* *
* *
* *

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	71
13. *In the treatment of hypothyroidism, which	**
synthetic preparation is most commonly used due to	*
* its stable pharmacokinetic profile?*	*
* - A. Thyroid USP	*
* - B. Liothyronine sodium	*
* - C. ℓ-thyroxine sodium	*
* - D. Liotrix	米
	77
3 $1/1 \times 1/1 \times 1/1$	不 ※
* 14. Which condition high result notif the abuse of	※
* A the stheme isling	*
* - A. Hypothyroldism	*
* - B. Hyperthyroidism	*
⅔ - C. Addison's disease	*
 D. Diabetes insipidus 	*
	米
15. *Which of the following thyroid hormone	77
preparations has the shortest half-life?*	※
 ☆ - A. Liothyronine sodium 	※
· B. ℓ-thyroxine sodium	*
* - C. Thyroid USP	*
* - D Liotrix	*
	*
* 16 *In hypothyraid nationts, which divided sign is often	*
* 10. "In hypothyrold patients, which clinical sign is often	彩火
Observed due to decreased stroke volume and heart	不义
* rate?*	~ ※
- A. Tachycardia	*
- B. Palpitations	*
* - C. Bradycardia	⋇
*	*
*	米
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* *	Duvertancian	% ∦
*	- D. Hypertension	*
** **	17. *A patient has undergone surgical removal of the	<b>※</b>
*	thyroid gland. Which therapy is essential for managing	*
**	this condition post-surgery?*	~ ※
*	- B. Hormone replacement therapy	*
** **	- C. Antithyroid drugs	が ※
*	- D. Corticosteroid therapy	*
が ※	10 *Which of the following is not a typical symptom of	が ※
*	hypothyroidism?*	*
₩ *	- A. Weight loss with increased appetite	が米
*	- B. Dry/thick skin	*
* *	- C. Hair loss	が ※
*	- D. Hoarse voice	*
* *	19. *A patient is prescribed a thyroid hormone	が ※
*	preparation derived from bovine sources. What is a	*
₩ *	potential concern with this type of medication?*	が米
*	- A. Short hall-life - B. Increased allergic reactions	*
* *	- C. Low potency	彩 ※
*	- D. High cost	*
* *		彩 ※
*		*
* *		彩 ※
*		*
* **	; ************************************	が ※

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<ul><li>※ 20. *Which type of thyroid hormone preparation</li></ul>	*
contains both T4 and T3 in a 4:1 ratio?*	ド
☆ - A. Liothyronine sodium	*
* - B. Thyroid USP	*
* - C. Liotrix	*
★ - D. ℓ-thyroxine sodium	*
*	米米
☆ 21. *Which of the following effects is NOT associated	
* with the clinical use of thyroid hormones?*	*
* - A Weight reduction (abuse)	*
- B Treatment of thyroid cancer	*
* - C Management of hyperthyroidism	*
- D Hypothyroidism treatment	<b>ボ</b> 上
*	不 ※
* 22 *Comparing the d-isomer to the l-isomer of thyroid	*
* hormone which statement is correct regarding their	⋇
* effects?*	*
$\pi$ - $\Delta$ The d-isomer is more notent in all respects	彩火
- B. The d-isomer is less notent in growth and	
* development effects	*
* - C The l-isomer has a shorter half-life	⋇
* - D. The d-isomer is less effective in reducing	*
* cholesterol levels	米
*	*
*	*
*	*
*	*
	* *
*	*
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* 23.* A 29-year-old woma	n with Graves' disease is
<pre></pre>	in the near future. Which of
* the following is the prefe	rred treatment for her
* condition?	*
*	*
* a) Methimazole	*
*	
☆ b) Propylthiouracil	*
*	*
* c) Radioactive iodine (1	31I) *
米 火	米
d) Surgical thyroidector	ny 🕺
*	*
* 24.* A patient who has u	ndergone radioactive iodine 🛛 💥
* therapy for Graves' disea	se should wait how long
before conceiving?	
*	*
* a) 1-2 months	*
*	*
* b) 2-3 months	*
*	
☆ c) 4-6 months	*
*	*
⅔ d) 6-12 months	*
<b>※</b>	*
*	
*	*
*	*
米 火	
~~ ******	~~ *********

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*	25.* What is a major disadvantage of using radioactive	< <
″ ′ ∦ [′]	odine (131I) therapy for hyperthyroidism?	\ { {
☆ ※ ※	a) High risk of recurrent hyperthyroidism	、 < < 
* *	b) Induction of hypothyroidism	€ €
* *	c) Pulmonary fibrosis	€ {
* * *	d) Allergic reactions	$\langle \langle \rangle$
* * *	26.* Which of the following is a contraindication for	~ ~
* t *	the use of radioactive iodine (131I) therapy?	€ {
* *	a) Hyperthyroidism	~ ~
* *	b) Pregnancy	~ ~ <
~ * *	c) Graves' ophthalmopathy	` < <
** **	d) Thyroid cancer	、 そ そ く
ネ ※ 2	27.* A patient is diagnosed with manic depressive	~
※ p	osychosis and is prescribed a medication with a narrow	÷
*r t ⊻⊻	herapeutic window that also inhibits thyroid hormone	5 2
* r * ×	release. Which medication is this?	くかく
∽ ※ ※	a) Lithium carbonate	へかん
* ***	* ************************************	<b>€</b>

<ul> <li>************************************</li></ul>	
<ul> <li>b) Carbamazepine</li> <li>c) Amiodarone</li> <li>d) Sucralfate</li> <li>28.* Which of the following is a side effect of lithium carbonate?</li> <li>a) Pulmonary fibrosis</li> <li>b) Ataxia</li> <li>c) Hypothyroidism</li> <li>c) Hypothyroidism</li> <li>d) Tachycardia</li> <li>29.* A patient taking iodinated contrast media such as ipodate is likely to experience which of the following actions on thyroid hormones?</li> <li>a) Increase in T4 to T3 conversion</li> <li>b) Decrease in T4 and T3 release</li> <li>c) Increase in thyroid hormone synthesis</li> </ul>	**
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<ul> <li>b) Decrease in T4 and T3 release</li> <li>c) Increase in thyroid hormone synthesis</li> <li>*</li> </ul>	*
* c) Increase in thyroid hormone synthesis * *	*
* c) Increase in thyroid hormone synthesis * * *	*
※ C) increase in thyroid normone synthesis ※ ※	*
※ ※	*
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	米
が メントントントントントントントントントントントントントントントントントントント	* * *
75 75 75 75 75 75 75 75 75 75 75 75 75 7	75 75

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⋇		*
*	d) Enhanced peripheral action of T3	*
※	d) Enhanced peripheral action of 15	*
*		米
*	30.* Which drug is known to reduce the absorption of	*
*	thyroid hormones?	*
*	thyrota normones.	*
*		*
*	a) Rifampin	*
デ	h) Sucralfato	
	b) Sucranate	デ
ボ		ボ
彩	c) Warfarin	彩
*		*
⋇	d) Europondo	*
*	d) Furosemide	*
*		*
*	31.* A patient is on rifampin for a bacterial infection.	*
米	How might this affect their thyroxine (T4) medication?	*
*	now mgne ens arece then enyroxine (11) mealeation.	*
*		*
*	a) Increase thyroxine absorption	*
*		*
*	h) Decrease thyroxine absorption	*
*	sy beerease myroxine assorption	*
*		*
*	c) Increase thyroxine metabolism	*
*		*
<b>小</b> <u>×</u>	d) Decrease thyroxine metabolism	
	ay beer case thy toxine metabolism	
デ		
	32.* Which of the following drugs can displace thyroid	デ
ボ	hormones from protein binding sites, potentially	苶
ボ	altering their activity?	米
米		米
*		*
※		*
*		*
**	********************************	**

***************************************
a) Salicylates (Aspirin)
*
b) Phenobarbital
c) Amiodarone
d) Calcium products
*
33.* A 27-year-old woman underwent near total
thyroidectomy.
She was started on liothyronine. What hormone is
<pre>     produced     *     in the new indexed ticeway when lighthy manine in     * </pre>
in the peripheral tissues when liothyronine is *
* a) Mathimazala
* a) Methinazole
* h) T3 *
c) T4 **
*
* d) TSH
*
*
*
*
$\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}{\overset{\bullet}$
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

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* * *	Book questions:	* * *
****	A 24-year-old woman was found to have mild hyperthyroidism due to Graves' disease. She appears to be in good health otherwise. In Graves' disease, the	ホホホテ
****	<ul> <li>cause of the hyperthyroidism is the production of an</li> <li>antibody that does which of the following?</li> <li>(A) Activates the pituitary thyrotropin-releasing</li> </ul>	マネネネ
** ** **	hormone (TRH) receptor and stimulates TSH release (B) Activates the thyroid gland TSH receptor and	* * * * *
*** **	thyroid hormone synthesis and release (C) Activates thyroid hormone receptors in peripheral	* * * *
** **	(D) Binds to thyroid gland thyroglobulin and accelerates its	ホホネ
* * * * *	(E) Binds to thyroid-binding globulin (TBG) and displaces	
** **	Answer:	ホホホ
** ** **	The antibodies produced in Graves' disease activate thyroid gland TSH receptors. Their effects mimic those of TSH.	* * * *
~ * * * *	The answer is B.	マボボ
***	***************************************	Ķ

***	***************************************	*
*		*
*		※
*	Grave disease first choice not book10. A 25-year-old	
<b>示</b> <u>米</u>	woman presents with insomnia and fears she	之
*	may have "compating wrong with her heart" She	う 家
*	describes "bor boart jumping out of bor sheet" She	<b>※</b>
*	describes her heart jumping out of her chest. She	*
*	feels healthy otherwise and reports she has lots of	*
*	energy. Lab tests confirm hyperthyroidism. Which of	×
*	the following is a drug that produces	*
*	a permanent reduction in thyroid activity?	*
*	(A) ¹³¹	*
*	(B) Methimazole	※ ×
ボ	(C) Propylthiouracil	デ
<b>示</b> ※	(D) Thiographic (SCN-)	うべ
*	(D) Thiocyanate (SCN-)	<b>~</b> ※
*		*
*	<del>``</del>	*
*	<del>``</del>	*
*	Answer:	*
*	Propylthiouracil and, to a much lesser extent,	*
*	methimazole inhibit peripheral conversion of T4 to T3.	*
*	Thyroglobulin is not a drug. Radioactive iodine is the	※ ~
*	only medical therapy that produces a permanent	デ
<b>ボ</b> <u>米</u>	reduction of thyroid activity. Anions such as	え
∽ ※	thiocvanate (SCN–) and perchlorate (ClO4–)	う 家
*	block the untake of iodide by the thyroid gland through $\frac{1}{2}$	*
*	compositive inhibition of the indide transporter. Their	*
*	offortiveness is uppredictable and CIOA car cause	×
*	enectiveness is unpredictable and CiO4 can cause	*
*	aplastic anemia, so these drugs are rarely used. The	*
*	answer is A.	※
*		ボ
<b>ネ</b> ※ ※ :	, ************************************	文家

*>	***************************************	**
*		*
*		*
*	Which of the following is a sign or symptom that would	⋇
*	which of the following is a sign of symptom that would	*
*	be expected to occur in the event of chronic overdose	*
*	with exogenous T4?	*
米	(A) Bradycardia	*
米	(B) Drv. puffy skin	米
彩	(C) Large tongue and drooning of the evelids	彩
ボ	(C) Large tongue and drooping of the cyclics	ボ
彩水	(D) Lethargy, sleepiness	ボ
71	(E) Weight loss	ズ
717 		715
715	Answer:	717 212
<b>米</b>	In hyperthyroidism, the metabolic rate increases, and	
<b>※</b>	even though there is increased appetite, weight loss	
*	often occurs. The other choices are symptoms seen in	*
*	by a sthe maid is the answer is E	*
*	nypothyroidism. The answer is E.	*
*		*
*		*
*		*
*		*
米		⋇
*		⋇
米		※
米		⋇
*		*
*		⋇
*		*
米		*
彩		彩
ボ		ボ
ボ		ボッ
デ		717
77 _\{_\	<u>ik ak ak</u>	77 * *
177	T M M M M M M M M M M M M M M M M M M M	

* *	***************************************	** *
***	Parathyroid hormones (lect.6)	***
*** **	1.* A 42-year-old woman presents with hypocalcemia.	<b>*</b> * *
***	regulation of Parathyroid Hormone (PTH) is correct?	***
****	a) PTH secretion increases when plasma calcium levels are above 5.5 mg/dl.	****
****	b) PTH secretion decreases when plasma calcium levels are below 3.5 mg/dl.	****
****	c) PTH secretion increases when plasma calcium levels are below 3.5 mg/dl.	~*** **
****	d) PTH secretion is not affected by plasma calcium levels.	****
****	2.* Which tissue is the primary target for PTH's effect on increasing calcium and phosphate resorption?	*****
<b>~</b> ※ ※	a) Intestine	** **
***	b) Bone	* * *
<b>***</b> *	c) Kidneys	** **
***	d) Liver	* * *
**	***************************************	**

***	**************************************
***	3.* PTH indirectly increases calcium absorption in the intestine by:
****	a) Directly acting on intestinal cells
<b>~</b> 米 米 米	b) Increasing vitamin D synthesis
*** **	c) Decreasing phosphate absorption **
**	d) Increasing calcitonin secretion **
****	4.* A 55-year-old man with hyperparathyroidism will most likely have which of the following effects on his kidneys?
***	a) Increased excretion of calcium
*** **	b) Decreased excretion of phosphate *
****	c) Increased reabsorption of calcium and increased excretion of phosphate ****
*******	d) Increased reabsorption of both calcium and phosphate ** ** **
* *	* ************************************

** *	K*************************************	₹ ₹
***	5.* Which form of Vitamin D is synthesized in the skin upon exposure to UV light?	$\dot{\epsilon}$
☆ ※ ※	a) 1,25(OH)2 cholecalciferol (Calcitriol)	いかく
* * *	b) 25(OH) cholecalciferol (Calcifediol)	~ ~ <
~ * *	c) 7-dehydrocholesterol	\ < < <
* * *	d) Cholecalciferol (D3)	$\langle \langle \langle \rangle \rangle$
~ * * * * *	6.* Which of the following effects does calcitonin have on bone?	、 そ そ そ
* *	a) Increases bone resorption	< < <
* * *	b) Decreases bone resorption	€ € €
**	c) Increases bone formation	< < <
* * *	d) Decreases bone formation	$\left\{ \left\{ \right\} \right\}$
<pre></pre>	8.* Which statement is true regarding calcitonin's role in calcium homeostasis?	、そそそ
* * *	a) Chronic excess of calcitonin leads to hypocalcemia.	$\langle \langle \langle \rangle \rangle$
**	b) Removal of parafollicular cells causes hypercalcemia.	· ~ ~ ~ ~
**	~ ************************************	K

**************************************
*
* c) Calcitonin is more important in bone remodeling
* than in calcium homeostasis. *
*
* d) Calcitonin decreases calcium absorption in the
<pre>     kidneys.     *     kidneys.     * </pre>
*
※ 9.* A patient with hypocalcemia might be expected to
* have which of the following changes in calcitonin *
*
<ul> <li>※ a) Increased calcitonin release</li> <li>※ a) Sector 2010 and 2</li></ul>
*
<ul><li>* b) Decreased calcitonin release</li><li>*</li></ul>
* c) No change in calcitonin release
* d) Increased PTH release
* * * *
* 10.* A 45-year-old patient recently underwent a
$\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}{\overset{\star{s}}}{\overset{\star{s}}{\overset{\star{s}}}{\overset{\star{s}}{\overset{\star{s}}}{\overset{\star{s}}{\overset{\star{s}}}{\overset{\star{s}}}{\overset{\star{s}}}{\overset{\star{s}}{\overset{\star{s}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} } } } \\ $
$\overset{\frown}{\ast}$ cramps, and seizures. Which condition is most likely? $\overset{\frown}{\ast}$
*
* a) Hyperparathyroidism * * *
* b) Hypoparathyroidism *
<ul><li>ネ</li><li>※ c) Primary hyperparathyroidism</li><li>※</li></ul>
*
***************************************

<u> </u>	<u>e de de</u>	
<b>~</b> ~ ※	< < < < < < < < < < < < < < < < < < <	
*	14 * Which of the following is the drug of choice for	*
⋇	14. Which of the following is the drug of choice for abrania humananathumaidiana?	*
*	chronic hypoparathyroidism?	*
*		*
が <u>米</u>	a) Calcium salts	が ※
不 ※		*
*	b) Thiazide diuretics	*
*		⋇
*	c) Calcitriol	*
*		*
ボン	d) Teriparatide	ボン
不 ※		不 ※
*	15.* A 55-year-old man with chronic renal failure	*
*	presents with symptoms of hypercalcemia, including	*
*	nausea, polyuria, and kidney stones. Which type of	*
*	hyperparathyroidism is most likely?	*
が 火		**
不 ※	a) Primary hyperparathyroidism	不 ※
*		*
⋇	b) Secondary hyperparathyroidism	⋇
*		*
*	c) Tertiary hyperparathyroidism	*
が <u>米</u>		ネシ
不 ※	d) Pseudohypoparathyroidism	不 ※
*		*
*		⋇
*		*
*		米
<b>ド</b>		ド
*		~ ※
*		*
**	<*************************************	**

* *	**************************************	
***	16.* Which of the following laboratory findings is **********************************	
<b>※</b> 米米	a) Decreased blood calcium levels	
**	b) Increased uring munk combate lovels	
* *	b) increased uninary phosphate levels	
***	c) Decreased urinary cAMP levels	
***	d) Increased blood phosphate levels	
ド米	17.* What is the best treatment option for primary	
**	nyperparatnyroldism? *	
***	a) Low calcium diet	
***	b) Steroids	こうこう
<b>※</b> 米	c) Surgery	こうこと
<b>~</b> ※ ※	d) Calcitonin	
** **		
***		
***		
· * * *		いたい
<b>※</b> ※		
<b>ド</b> 米	~ ************************************	

**	***************************************	* *
∽ ※ ※	18.* All of the following drugs are effective in the	<b>*</b> * *
~ ※ ※	management of hypercalcemia except:	<b>~</b> 米 ×
が 米	a) Furosemide	が 米 米
* *	b) Pamidronate	**
** **		* *
* *	c) Plicamycin	* *
* *	d) Teriparatide	* *
*	19.* Which of the following statements about	**
**	hypoparathyroidism is false?	***
☆ ※	a) It can be caused by thyroidectomy.	· * * *
ネ ※ ※	b) It results in decreased blood calcium levels.	<b>~</b> 米 ×
~ ※ 》		<b>**</b> *
が 米	c) It can be treated with calcium supplements.	が 米 米
**	d) It is characterized by increased sensitivity to PTH.	**
* *	20.* What is the primary cause of secondary	**
* *	hyperparathyroidism?	* *
* *	a) Parathyroid adenoma	* *
* *	b) Chronic hypocalcemia due to renal disease	* *
* *		**
**	***************************************	**

***	**************************************
***	c) Malabsorption syndrome **
*** **	d) Idiopathic causes **
***	21.* Which medication inhibits bone resorption and is used in the treatment of hypercalcemia?
***	a) Calcitonin ** **
***	b) Thiazide diuretics **
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	c) Furosemide **
***	d) Plicamycin **
ド米	22.* A patient with hypoparathyroidism is treated with $\overset{\pi}{st}$
*	vitamin D and calcium supplements. Which additional
が米	medication might be prescribed to reduce calcium
⋇	*
* *	a) Furosemide **
*	*
* * *	b) Thiazide diuretics *
***	c) Calcitonin
***	d) Cinacalcet ※ 米
* *	* ************************************

***	**************************************	***
% %	23.* All of the following are characteristics of Paget's	* *
* *	disease except:	* *
* *	a) Increased bone resorption	* *
·***	b) Organized bone formation	***
*** **	c) Fractures	マネッ
****	d) Spinal cord injuries	ボボド
ド米	24.* Which of the following is considered the most	マボン
***	preferred drug class for the management of Paget's disease?	ボボボ
***	a) Calcium supplements	* * *
**	b) Biophosphonates	**
* *	c) Thiazide diuretics	¥ ¥
***	d) Vitamin D analogs	* * *
* *	25.* Salmon calcitonin is effective in the management	* *
**	of all of the following conditions except:	不て
※※※	a) Paget's disease	マボボド
~ 米	***************************************	マボ

** *	**********************	***
****	b) Postmenopausal osteoporosis	****
☆ ※ ※	c) Hypercalcemia	***
* * *	d) Hypoparathyroidism	***
~ * * * * *	26.* All of the following biophosphonates are used in the treatment of Paget's disease except:	***
☆ ※ ※	a) Etidronate	***
* * *	b) Alendronate	***
**	c) Calcitriol	***
☆ * *	d) Zoledronate	※ ※※
****	27.* A 60-year-old woman with Paget's disease is prescribed a biophosphonate. Which of the following is likely to be included in her treatment regimen?	****
☆ ※ ※	a) Calcitonin	** *
* * *	b) Pamidronate	***
*****	c) Teriparatide ************************************	*****

沐 茶:	************************************	Ŕ
米		Ŕ
*	d) Thiazide diuretics	K
⋇		*
*		K
*		K
*	28.* All of the following statements about the effects \Rightarrow	K
*	of Paget's disease on the hone are true excent.	K
*	of Paget's disease on the bone are true except.	K
*		K
<u>>k</u>	a) Demineralization of bone	トレ
		マン
717		アレ
ボ	b) Disorganized bone formation	í I
彩		Ŕ
*	c) Decreased hone resorntion	K
⋇		1
*		K
*	d) Increased risk of fractures	K
*		K
*	29 * Which of the following is not an indication for the	K
*		K
*	use of salmon calcitonin?	K
*		K
*	a) Osteoporosis	K
		トレ
		N
75	b) Paget's disease	N V
ボ		í I
彩	c) Hypoparathyroidism	Ŕ
*		K
⋇		K
⋇	d) Hypercalcemia 🗧 🗧 🗧	K
⋇		K
*	30 * What is the primary mechanism of action of $30 + What is the primary mechanism of action of the second seco$	K
⋇		K
*	biophosphonates in the treatment of Paget's disease? \rightarrow	K
*		K
*		K
*		K
**	~ <	ド
	$(x, x) \in (x, x) \in ($	

*** *	**	**	**	< ∦ ·	**	<∦	*	**	**	*	**	**	**	*	*	**	** *
* *	a) In	creas	ing b	one	e re	sorp	otio	n									**
* *	b) De	ecrea	sing	calc	iun	ו ab	sor	ptic	on								***
∽ ※ ※	c) Inl	nibiti	ng bo	one	res	orp [.]	tior	۱									~ ※ ※
* *	d) In	creas	ing v	vitar	nin	ט D sי	ynt	hesi	S								* *
* *																	***
* *																	***
☆ ※ ※																	※ ※
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* *																	** **
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** ***	***	**	**	<∦·	⅔	**	*	**	∻	*	**	**	{ ∦	*	*	**	が ※

* * *	
* Pancreatic hormones *	
ネ ※ (lect. 7+8) ※	
** 米 1.* Which of the following statements about Diabetes ** 米 Mellitus is false? 米	
米 米 a) It is characterized by high blood sugar levels. * * * * * * * * * * * * * * * * * * *	
ネ 米 b) It is primarily caused by insulin deficiency. 米 米	
* c) It affects only carbohydrate metabolism. *	
** ** d) It is a major cause of heart disease and stroke. ** **	
 * 2.* Which of the following is a characteristic feature of * Type I Diabetes Mellitus? 	
ネ 米 米 a) It is most commonly diagnosed in adults over 40. ※ 米	
* b) Patients often present with ketoacidosis. * * *	
 ※ ※ ★ ★	
* d) It is strongly associated with obesity. * * * * * * *	
~ ************************************	ていて

***	***************************************	⋇
⋇		*
*	2 * All of the following one true of out Tures II Disheter	*
*	3.* All of the following are true about Type II Diabetes	*
*	Mellitus except:	*
*		*
*	a) It is usually discovered accidentally after the age of	*
*	20.40 years	*
*	30-40 years.	*
*		*
*	b) Most patients are obese, and it is more common in	*
*	females.	*
*		*
*		
	c) Ketoacidosis is common in patients with Type II	
<u>>k</u>	DM.	
→ ><		
	d) Patients have a strong family history of the	
	diagonal	
	disease.	
75		
75	4.* Which of the following laboratory tests is used to	
715	diagnose diabetes?	
		デー
	a) Liver function test	ジャン
デ		ジャン
ボ	b) Glycosylated hemoglobin (HbA1c)	ジャン
デ		ジャン
ボ	c) Complete blood count (CPC)	彩
ボ		彩
彩		彩
米	d) Serum creatinine	彩
米		*
*		*
*		*
*		*
*		*
*		*
***	**********************************	*

***	***************************************	*
*		*
*	5.* A 12-year-old child presents with weight loss,	※
ボ	fatigue, polyuria, and polydipsia. Which type of	ジャン
不	diabates is most likely?	デ
火		うべ
※		う ※
*	a) Type I Diabetes Mellitus	下 ※
*		*
*	b) Type II Diabetes Mellitus	*
*	``	*
*	c) Gestational Diabetes	*
⋇	· · · · · · · · · · · · · · · · · · ·	*
*	d) Latent Autoimmune Diabetes of Adults (LADA) $\frac{1}{2}$	*
*		*
*		*
*	6.* Which of the following statements about insulin	*
*	resistance in Type II Diabetes Mellitus is true?	※ ~
ボ		デー
717 242	a) Insulin resistance only occurs at the receptor level.	行人
火		うた
※	b) It is uncommon in Type II Diabetes Mellitus.	う ※
*		下 ※
*	c) It can accurate and next	*
*		*
*	receptor levels.	*
⋇	}	*
*	d) Insulin levels are always low in insulin resistance.	*
*	}	*
*		*
*		*
米		※
ボ		デー
え		え
六 米		うべ
う ※※3	, ************************************	う ※

*** *	***************************************	**
*	7.* All of the following are late complications of	※ ※
☆ 米 ×	diabetes except:	が ※ ※
∽ 米 ※	a) Retinopathy	
* * *	b) Nephropathy	* *
* *	c) Ketoacidosis	* *
* *	d) Neuropathy	* *
* *	Q * M/bich of the following diagnostic tests measures	* *
* *	long-term blood glucose control?	¥ ¥
* * *	a) Random blood sugar (RBS)	***
* *	b) Fasting blood sugar	※ ※
* * *	c) Glycosylated hemoglobin (HbA1c)	☆ ※ ※ ※
* *	d) Glucose tolerance test	**
* * *	9.* What is the primary metabolic disorder in diabetes mellitus?	***
* * *	a) Only carbohydrate metabolism is affected.	***
* * *	b) Only lipid metabolism is affected.	***
* **	; ************************************	¥ *

※ ※ *	****	**
ざん		が火
下 <u> </u>		ド
	c) Only protein metabolism is affected.	~ ※
∧ ※		**
、 ※	d) Abnormalities in carbohydrate linid and protein	**
*	motabolism	*
*		*
*		米
*	10.* Which form of insulin has slight insulin-like activity	米
*	but is much less potent than insulin?	*
*		米
*	a) Preproinsulin	*
※		*
※	h) Proinsulin	米
	by thomsonn	ボッ
が		ボメ
え	c) insulin	デ
え		ドド
下 下	d) C-peptide	*
₩ ※		小 ※
₩ ※	11.* Which of the following is devoid of any insulin-like	*
*	activity?	*
*		*
*	a) A chain	米
*	aj A-chain	米
*		*
*	b) B-chain	*
*		*
※	c) C-peptide	※
が		ボッ
が <u> と</u>	d) Proinsulin	が火
n K	, ,	之
う 家		う
下 ※		~ ※
`` * **	****	· · 米
		-17

*** *	***************************************	* *
· * * * * * * * * * * * * * * * * * * *	12.* The secretion of insulin is dependent on which ion?	****
* * *	a) Sodium	***
**	b) Potassium	***
* * *	c) Calcium	***
* *	d) Chloride	***
* * *	13.* All of the following factors increase insulin release except:	***
~ * *	a) Glucose	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
* * *	b) Glucagon	** **
* * *	c) Phenytoin	** **
* * *	d) Sulfonylureas	* * *
~ * * * *	14.* Which of the following factors does not increase insulin release?	~** **
**	a) Growth hormone	***
~* ** *	b) Amino acids	***
***	****	*

**	****	⋇
¥		尜
K		∦
K	a) Antichalinargies	∦
K	c) Anticholinergics	*
K		米
	d) Fatty acids	米水
i K		不上
i K	15.* All of the following are true about the	不义
N K	biosynthesis of insulin except:	シャ
K		※
K	a) It starts in the rough endoplasmic reticulum (RFR)	※
¥	a) it starts in the rough chaopiasinic reticatant (neny.	*
ĸ	h) Proinculin is converted to inculin in the Coldi	∦
K	b) Proinsulin is converted to insulin in the Goigi	尜
K	apparatus.	*
K		*
K	c) Preproinsulin has the same potency as insulin.	*
i K		米水
i K	d) C-peptide is a byproduct of insulin synthesis.	不义
N K		が
~	16.* Insulin binding to its receptor directly results in	~ ※
K	which of the following?	※
K	which of the following.	*
ĸ	a) Decrease in alucese transport into cells	∦
ĸ	a) Decrease in glucose transport into cens	尜
K		*
¥	b) Activation of protein kinase cascades	*
K		米
i K	c) Inhibition of glycolysis	彩火
i V		不业
N K	d) Reduction in fatty acid synthesis	え
к К	- · · ·	シャ
Ķ		*
K		*
	*****	米

* 17.* All of the following processes are stimulated by insulin except:
** a) Glycogen synthesis ** **
** b) Glycolysis **
* C) Fatty acid synthesis * * *
米 d) Protein breakdown 米 米 米
 ※ ※ 18.* Which of the following is NOT a mechanism by ※ which sulfonylureas increase insulin activity? ※
* a) Increase in number of beta cells * *
* b) Increase in peripheral cell sensitivity to insulin *

 ★ d) Increase in insulin binding to its receptors ★ *
 ※ ※ 19.* A 52-year-old patient with type 2 diabetes is ※ proscribed a sulfanylyroa. Which of the following is the
* major mechanism of action of sulfonylureas? * *
* a) Decrease in glucose absorption in the intestine * * * * * *
* ************************************

**	******************	*
术 ※		が ※
六 米	b) Increase in insulin release from beta cells	☆
*		*
* *	c) increase in glucagon release	米 火
イ 米	d) Decrease in somatostatin release	~ 米
✻	d) Decrease in somatostatin release	⋇
* *	20.* Sulfonvlureas exert their effects on beta cells	*
が ※	through:	
*		*
*	a) Voltage-dependent K+ channels	* *
が ※		不米
*	b) High-affinity sulfonylurea receptors linked to ATP-	*
*	sensitive K+ ion channels	*
が ※	a) Valtaga danandant Nay abannala	不米
*	c) voltage-dependent Na+ channels	*
*	d) High-affinity insulin receptors linked to Ca++	*
が ※	channels	が ※
*		*
*	21.* Which drug interaction is likely to increase the	*
が ※	effects of sulfonylureas?	が ※
*		*
*	a) Antacids	*
示 ※	b) Dropropolol	が ※
*	b) Propranoioi	*
*	c) Anticholinergics	*
术 ※		が ※
*		*
*		*
芥芥	****	ボ

** *	**************************************	ボボ
***	d) Phenytoin	ボボン
*× *×	22.* All of the following are side effects of	が
*	sulfonylureas except:	K
*× *×		× ×
*	a) Hypoglycemia	K
*	b) Agranulocytosis	不
※		で不
*	c) Lipodystrophy	がい
※		マボ
*	d) Hepatic dysfunction	ボン
ジ 米	23.* A 65-year-old woman is started on acarbose for	マズ
*	type 2 diabetes. What is the primary mechanism of	ボト
ド米	action of acarbose?	えが
*	a) Increase in insulin sensitivity in peripheral tissues	ボイ
が米		マズ
*	b) Decrease in hepatic gluconeogenesis	が
※		ずが
*	c) Inhibition of alpha-glucosidase in the intestinal	K
**	brush border	が
*	d) Increase in insulin secretion from beta cells	K
* *		×
*	*	K
*		不
**		で不
*	***************************************	K

** *	***************************************	* *
*****	24.* A 70-year-old patient with type 2 diabetes and insulin resistance is prescribed pioglitazone. Which of the following best describes the mechanism of action of thiazolidinediones?	*****
**	a) Inhibition of hepatic glucose production	***
** **	b) Activation of PPAR-gamma receptors	***
**	c) Inhibition of alpha-glucosidase in the intestine	**
☆ ** **	d) Stimulation of insulin secretion from beta cells	***
***	25.* Which incretin hormone is produced by L cells in the ileum and colon?	***
***	a) Glucose-dependent insulinotropic polypeptide (GIP)	***
** **	b) Glucagon-like peptide-1 (GLP-1)	· * *
* * *	c) Insulin-like growth factor-1 (IGF-1)	***
**	d) Glucagon	**
* * *		* * *
**		***
* **	; ************************************	¥ ∦

** *	***************************************	** *
*	26.* Which of the following drugs should be avoided in	*
が ※	a patient taking sulfonylureas due to potential	が ※
*	enhancement of hypoglycemic effects?	*
*		*
米 火	a) Aspirin	*
~ 米		~ 米
⋇	b) Antacids	⋇
*		*
ボージ	c) Beta-blockers	が ※
*	d) Thiazida diuratian	※
*	d) Infazide diuretics	*
※ ※		米 火
∽ ※	27.* Which of the following statements about	示 米
⋇	sulfonvlureas is correct?	⋇
*	,	*
が ※	a) They are effective in both type 1 and type 2	が ※
*	diabetes	*
*		*
※ ×	b) They decrease insulin binding to its receptors	※ ※
ネ ※		不 米
⋇	c) They are known to cause lipodystrophy	⋇
*		*
が ※	d) They increase insulin release by binding to	が ※
*	suitonylurea receptors on beta cells	*
*	28 * Which of the following drugs is an orally effective	*
※ ※	selective DPP-4 inhibitor?	*
~ ※		~ 米
*		⋇
**	***************************************	**

<*************************************	< * *
	不米
	六 ※
a) Exenatide	*
(*
🗧 b) Linagliptin	*
*	*
c) Pramlintide	*
	*
t d) Canadiflazin	※ ※
Canaginozin	ボメ
	がと
29.* What is the main therapeutic effect of synthetic	う
incretin mimetics like Exenatide and Semaglutide in the	小 ※
management of type 2 diabetes?	**
	*
a) Decrease in insulin sensitivity	*
(*
(h) Increase in benatic glucose production	*
e b) increase in nepatic glucose production	*
	*
c) Increase in insulin and decrease in glucagon blood	*
evels	米
	茶
d) Increase in fasting blood glucose levels	が
	ド
	小 ※
30.* Which drug is a synthetic analog to amylin, used	*
as an adjunct medication in insulin-dependent	*
diabotos2	*
	*
	*
e a) Sitagliptin	*
	米
t Y NA	米
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₩¥ ₩	****	* *
K		米
ĸ		*
K	b) Pramlintide	*
K		*
K	c) Bromocriptine	*
K		*
K		*
K	d) Canagiitiozin	*
K		*
K		*
ĸ	31.* A patient with type 2 diabetes is given a	⋇
ĸ	sympatholytic D2-donamine agonist to manage	∦
K	sympatholytic D2 dopamine agoinst to manage	⅔
K	postmear plasma glucose levels. What drug is this	尜
K	patient likely taking?	∦
K		∦
K	a) Linagliptin	∦
Ķ		∦
K	b) Tirzopatida	∦
ĸ	b) mzepatide	尜
K		尜
K	c) Bromocriptine	尜
K		∦
K	d) Pramlintide	*
K	,	∦
¥	22 * What is a primary action of alpha glucosidasa	※
K		*
K	Inhibitors such as Acarbose in managing type 2	*
K	diabetes?	*
K		*
i i i i i i i i i i i i i i i i i i i	a) Increase insulin secretion	*
Ě		*
it K	b) Inhibit ducase absorption in the intesting	ボ
ř	by minut glucose absorption in the intestine	ボン
Ň		ボッ
ズン	Ne de	ボン
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ł		>
ł	a) Increase ducedon release)
ł	c) increase glucagon release)
	al). Endean and incompliant and a statistication in a statistication of the	ラン
	d) Enhance insulin sensitivity in peripheral tissues	7
		>
	33.* Which of the following drugs mimics the	€
	physiological effects of GLP-1 by delaying gastric	€
	emptying and enhancing satiety?	>
		7
	a) Canagliflozin	7
		~
	b) Pramlintide	-
		~
	c) Bromocriptine	>
		3
	d) Linagliptin	
	34.* A 60-year-old patient with type 2 diabetes and	7
	high blood glucose levels despite metformin therapy is	>
	prescribed a new drug. The drug blocks the SGLT2	3
	protein in the kidneys. Which drug is the patient likely	
	taking?	
	a) Evapatida	
	a) Exertative	
	b) Epolroctat	
	n) chanestar	

桬 尜 c) Dapagliflozin 米 尜 **** d) Bromocriptine 35.* A patient with diabetes is treated with a drug that inhibits aldose reductase, aiming to reduce the 米 complications of retinopathy, neuropathy, and ****** nephropathy. Which drug is this patient likely using? a) Ranirestat b) Tirzepatide ** c) Pramlintide 尜 ******* d) Bromocriptine 36.* Which drug, used in the management of type 2 diabetes, functions by increasing hypothalamic dopamine levels to inhibit excessive sympathetic tone? a) Linagliptin ✻ b) Bromocriptine **** c) Semaglutide d) Canagliflozin * *

****	**************************************	シシシシ
****	37.* Which of the following is NOT a side effect of sulfonylureas?	~ ~ ~ ~ ~
***	a) Hypoglycemia	* * /
** **	b) Agranulocytosis	さそそ
***	c) Lipodystrophy	ϵ
***	d) Hepatic dysfunction	€ € €
****	38.* Which class of oral antidiabetic drugs is primarily used to decrease insulin resistance in patients with type 2 diabetes?	
** ** **	a) Sulfonylureas	÷ ÷ ÷
***	b) Alpha-glucosidase inhibitors	
***	c) Thiazolidinediones	€ € €
***	d) Prandial glucose regulators *	` { {
*****	39.* Which of the following drugs mimics the physiological effects of GLP-1 by delaying gastric emptying and enhancing satiety?	* * * * * * *
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*		※
が米		が
~ 米	a) Canagliflozin	小 ※
∦		· ※
*	b) Pramlintide	米
*		ボシ
が米	c) Bromocriptine	ざい
~ 米		小 ※
*	d) Linagliptin	※
*	>	彩
*	40.* Which of the following statements about incretin	彩
ネシ	mimetics is correct?	彩火
~ 米		う※
*	a) They increase glucagon release	彩
⋇	}	*
*	b) They are only effective when used alone	米
芥 火		彩火
~ 米	c) They mimic or enhance the effects of GLP-1 and	う※
*	GIP	※
∦	2	彩
*	d) They decrease the sensitivity of beta cells to glucose	米
米火		彩火
が米		う
*		米
*		*
*		※
**		彩火
が米		不影
※		が
⋇	}	*
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**	41.* A patient with diabetes presents to the ER with a coma. Which of the following drug classes should be	* * *
~ ** **	considered in their immediate management?	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
* * *	a) SGLT2 inhibitors	* * *
**	b) Incretin mimetics	**
* * *	c) Insulin therapy	** **
**	e) Alpha-glucosidase inhibitors	***
* * *	important question (doctor has emphasized now important it is!!): What is the most dangerous side	* * *
*	a) Allergy	*
∽ ※	b) lipodystrophy	※
*	c) Hypoglycemia	*
*	d) Indurtion	※ ※
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不 ※		ネ
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*		*
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