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Sitagliptin and Metformin Combination For Type 2 Diabetes

Sitagliptin is a drug from the class of DPP-4 inhibitors, and a one-of-its-kind drug for the treatment of high glucose levels in the blood, also known as hyperglycaemia. Sitagliptin has a strong clinical profile and the potential to revolutionise the treatment of type 2 diabetes for targeted blood sugar levels with currently available anti-diabetic medication.

Cadila launched a potent combination of sitagliptin and Metformin.

Reference

<https://health.economictimes.indiatimes.com/news/pharma/cadila-launches-generic-versions-of-type-2-diabetes-drug-sitagliptin-in-india/93276>

Oral Insulin No More Delusion Scientists Develops Insulin Tablet

Breakthrough discovery made by University of British Columbia scientists by developing an oral insulin tablet which will work as replacement for daily insulin injections. Research at University of British Columbia Dr. Anubhav Pratap Singh's team developed a different kind of tablet that isn't made for swallowing, but instead mouth-dissolving which dissolves when placed between the gum and cheek.

This formulation makes use of buccal mucosa and delivers all the insulin to the liver without wasting or decomposing any insulin along the way, which was the biggest challenge in formulation of insulin tablet so far. Most swallowed insulin tablets in development tend to release insulin slowly over two to four hours, while fast-release injected insulin can be fully released in 30-120 minutes. "While These exciting results show that we are on the right track in developing an insulin formulation that will no longer need to be injected before every meal, improving the quality of life, as well as mental health of diabetics around the world."

Reference

<https://www.pharmatutor.org/pharma-news/2022/oral-insulin-no-more-delusion-scientists-develops-insulin-tablet#:~:text=%E2%80%8BBreakthrough%20discovery%20made%20by,replacement%20for%20daily%20insulin%20injections.>

Robotic Drug Capsule Can Deliver Drugs To Gut

A new drug capsule can help large proteins such as insulin and small-molecules drugs be absorbed in the digestive tract. The capsule has a robotic cap that spins and tunnels through the mucus barrier when it reaches the small intestine, allowing drugs carried by the capsule to pass into cells lining the intestine.

Difficult task because protein drugs tend to be broken down in acidic environment of the digestive tract, and they also have difficulty penetrating the mucus barrier that lines the tract. The "RoboCap" capsule, which is about the size of a multivitamin, carries its drug payload in a small reservoir at one end and carries the tunnelling features in its main body and surface.

The capsule is coated with gelatin that can be tuned to dissolve at a specific pH. When the coating dissolves; the change in pH triggers a tiny motor inside the RoboCap capsule to start spinning. This motion helps the capsule to tunnel into the mucus and displace it.

Reference:

<https://www.sciencedaily.com/releases/2022/09/220929133354.htm#:~:text=A%20new%20drug%20capsule%20can,into%20cells%20lining%20the%20intestine.>

Zenara Launches Generic Version Of Pfizer Covid Drug Paxlovid

Hyderabad based Zenara pharma has launched a generic version of Pfizer's Covid-19 oral drug Paxlovid (nirmatrelvir tablets co-packaged with ritonavir tablets). First it has launched Nirmatrelvir and Ritonavir tablets in a combi pack for patients with mild to moderate symptoms of Covid-19. The product will be sold under the brand name Paxzen.

Reference:

<https://www.thehindu.com/news/cities/Hyderabad/zenara-launches-generic-version-of-pfizer-covid-drug-paxlovid/article65870142.ece>

PUZZLE HIDDEN WORDS

S			P	S	N	T	O	D
U	L	U	A	U		A	G	E
C	I	G	S	B	E	C	L	C
R	P	E	T	L	Y	H	I	
O	I		I	I	D	Y	D	S
S	T	T	L	N	R	P	A	C
E	O	I	L	G		H	N	E
A	R	C	I	U	C	Y	T	T
B		Q	E	A	A	L	S	H
A	W	P	S	L	R	A		A
Y	E	L	L	S	W	S	T	N
X	C	S			O	I	U	O
	M	A	C	R	O	S	O	L

1. Simple syrup is a saturated solution of?
2. Lozenges were originally named as
3. Which one tablet does not require disintegrant?
4. Acute tolerance is also known as
5. Cab-O-sil used as

ANSWERS FOR THE PREVIOUS E-NEWSLETTER PUZZLE: MISSING LETTERS:

1. Crown Cap, 2. Intravenous, 3. Orange Book, 4. Yellow, 5. Lipitor.

Send your correct answers to psgcp.ceutics@gmail.com. The first three participant with correct answers will be acknowledged in the next issue.

BEST POSTER AWARD IN ICAAPS 2022

- 1) Narmatha.M, Nivetha.C.K, Priyadharshini.K were awarded best poster in ICAAPS held at PSGCP 2022

FELLOWSHIP PROGRAM

- 2) Bharathi.P (M.Pharm 2nd year) has completed Summer Research Fellowship program-2022 offered by IAS, INSA, NAS.

INTERESTING FACTS

The pepsi was invented by a pharmacist Caleb Davis Bradham. He wanted to become a Doctor and worked as a pharmacy apprentice while he was in school. He left school for a family emergency and when he returned he opened up his own drug store. It was here that he made Pepsi, called "Brad's Drink" at the time from the sugar water, caramel, lemon oil, nutmeg and other ingredients. He later renamed it "Pepsi- cola" after the word dyspepsia, which means indigestion.

CORNER OF APPRECIATION:

Congratulating the participants of previous newsletter puzzles.
1. Sowmika Pharm.D 6th year

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