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# PHARMAPEDIA

PSGCP *E-News Letter*

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## First single inhaler triple therapy approved for asthma and COPD by USFDA



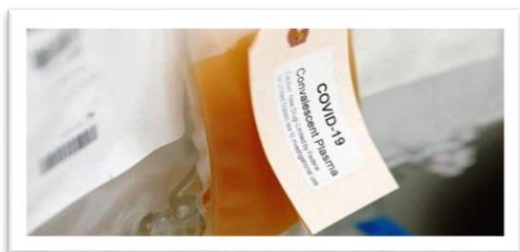
GlaxoSmithKline plc (GSK) and Innoviva, Inc. announced the United States Food and Drug Administration (USFDA) has approved a new indication for Trelegy Ellipta (fluticasone furoate/umeclidinium/vilanterol) for the treatment of asthma in patients aged 18 years and older adding to its current license for use in patients with chronic obstructive pulmonary disease (COPD).

The FDA-approved strength for both COPD and asthma is fluticasone furoate/umeclidinium/vilanterol 100/62.5/25mcg. The approval means Trelegy is the first single inhaler triple therapy approved for the maintenance treatment of both asthma and COPD and is the only single inhaler triple therapy available for patients in a convenient once-daily inhalation in the US.

Ref: <http://www.pharmabiz.com/NewsDetails.aspx?aid=131018&sid=2>

## Plasma therapy doesn't reduce covid-19 death risk, says ICMR

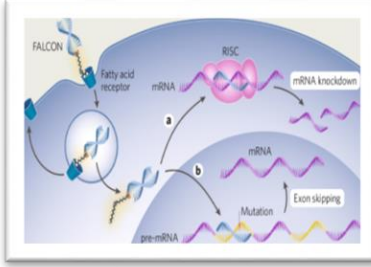
The Indian Council of Medical Research (ICMR) in a study, said plasma therapy for COVID-19 neither reduces the death risk nor does it slow down the progression of the disease from mild to severe stage. In plasma therapy, antibodies from the blood of a person who has recovered from corona virus are taken and transfused into a corona virus infected patient to boost the immune system to fight the infection.



A trial by ICMR was conducted on 464 moderately-ill patients with breathing difficulties and oxygen saturation level of less than 93 per cent. They were divided into two groups -- 235 were given plasma while 229 received only standard care. Both intervention and control groups were compared after 28 days. A total of 34 patients or 13.6 per cent of those who received plasma therapy could not recover and died, the top medical body said, while 31 patients or 14.6 per cent of those who did not receive plasma died. The study said 17 patients in each group progressed to have severe disease. Plasma therapy, however, had minor benefits in reducing symptoms like shortness of breath and fatigue and it had no effect on fever and cough.

Ref: <https://www.ndtv.com/india-news/convalescent-plasma-therapy-didnt-help-reduce-covid-19-deaths-top-medical-body-icmr-study-2292543>

# Next-Generation Novel RNA Based Therapeutics for Gene Therapy



DTx Pharma, has developed a proprietary technology platform to enable the delivery of novel RNA-based therapeutics to a wide range of tissues and cell types throughout the body. Using this platform, dubbed FALCON (Fatty Acid Ligand Conjugated OligoNucleotide).

Short interfering RNA (siRNA) or AntiSense Oligonucleotide (ASO) has been limited by poor bio distribution and rapid clearance. But this DTx's long chain fatty acids are highly soluble in aqueous solutions, improving bio distribution and allow for targeted and efficient uptake of siRNA and ASO by many different cell types and tissues *in vivo* hence avoiding toxicities associated with nanoparticle delivery.

Ref: <https://www.nature.com/articles/d43747-020-01099-9>

## Nano formulation of Dexamethasone is the first drug to show life-saving efficacy in COVID-19

In the world's largest randomized controlled Covid-19 trial called RECOVERY trial revealed that dexamethasone (6mg/day Oral or IV for 10 days) reduces the number of COVID-19-related deaths by 35% in patients on the intensive care unit (ICU). Nanomedicine dexamethasone formulation able to control cytokine proliferation, and has highly potent anti-fibrotic, anti-swelling properties helps Covid-19 patient to recover faster than treatment with the free drug.

Ref: <https://www.nature.com/articles/s41565-020-0752-z>

1. The device which determines the porosity of solid drug substance.
2. Sorbitan Ester of fatty acid are called as \_\_\_\_\_
3. Availability of EUDRAGIT<sup>®</sup> RL 100.
4. Composition of Zinc silicate and Barium borosilicate.
5. Dosage form that process by Candy Moulding.
6. Co processed excipient of Captisol.
7. Flavour, which added to mask saltiness.
8. A polymer used for food and pharmaceutical packages regulated by FDA.
9. Anti caking agent used to absorb excess moisture and make them water repellent.
10. The lacquers which prevent Tin from erosion.
11. Device used to sort out filled capsule.
12. Agent used in Vulcanizing in Rubber.
13. Physical parameter in instability of emulsion.
14. Excess spraying of coating solution or Over heating leads to \_\_\_\_\_
15. Synthetic Colour additives used in cosmetics.

## PHARMA FACTS

1. The Rarest blood type in existence is Rh-null blood called GOLDEN BLOOD. This blood type has only been found in 43 persons around the world during the last fifty years.



2. Army Ants are used as "Natural Sutures" to stitch up wounds in East Africa. This particular breed of ants is called the Dorylus. The ants jaws are so powerful the natives use them to stable Wounds together by forcing them to bite them and then break off their body.

3. The Lacrima Punctum is a small hole in your eyelids that drains your tears to your nose. It's the reason why you get a runny nose after crying.

## The Beautiful Old

Bone syringe (made up of bird/animal bone) used to introduce chemicals per urethra for the treatment of syphilis in 18<sup>th</sup> century.



## WORD PUZZLE

G	N	I	R	E	T	S	I	L	B	C
O	N	I	T	R	I	L	E	A	S	Y
P	S	P	A	N	S	Y	F	H	R	C
Y	S	W	S	E	G	N	E	Z	O	L
C	A	F	K	T	R	C	L	A	T	O
N	L	H	J	U	A	G	C	J	O	D
O	G	R	V	I	N	Y	L	K	S	E
M	A	P	L	E	U	R	S	S	O	X
E	N	Y	S	U	L	P	H	U	R	T
T	E	F	L	J	E	G	H	E	T	R
E	J	S	H	R	S	M	I	C	A	I
R	V	I	S	C	O	C	I	T	Y	N

### ANSWER FOR THE PREVIOUS E-NEWSLETTER PUZZLE

1. TOPICAL
2. WAXED
3. PULSATIVE
4. CDSCO
5. SHORTER
6. SORPMETER
7. EMULSION
8. MICRODOSE
9. MACERATION
10. PULMONARY
11. FETUS
12. SALIVA
13. METASTABLE
14. MACROGOL
15. PLACEBO

Send your correct answers to [psgcp.ceutics@gmail.com](mailto:psgcp.ceutics@gmail.com).

The first three participants with correct answers will be acknowledged in the next issue

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