



NANDHA PHARMA ALERT

An Exclusive Newsletter from Drug Information Center,
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Neuro Technology

Neuro technology holds boundless potential to improve many aspects of life. It is already being practical apply in the medical and wellness industries, but also as many implication for other contacts including education, work place managemently, national security and even sports

Neuro technology encompasses all components that are develop to understand the brain, visualize its process and even control, repair or improve its functions. These components can be computers, electrodes or any other devices that can be set up to intercept electrical pulses that run via the body

In healthcare, neurotechnology is currently being used in brain imagine by recording magnetic field produced by electrical activity with in the brain, neuro stimulation, stimulating the brain and nervous szystem to influence brain activity, and in neuro device and emerging

Injections, lyophilized powder for reconstitution (200mg/200ml)

MECHANISM OF ACTION:

Sucessful viral replication leads to the formulation of an number of infections viron mature viruses are infections but remain intracellurally until cell lysis .On the other enveloped viron form its created when mature viruses wrap with late endo membranes.The formation of awrapping complex for enveloped virions is mediate the orthopoxvirus P37 protein .2 These egress – competent enveloped virions are release a nonlytic fashion from the cell 2 and play an essential role in cell-to-cell and long dissemination of the virus in the host.

PHARMACOKINETICS:

Absorption:

Tmax,oral/IV :6 hours

Effects of food :AUC I ncreased 39 | %

Distribution:

Protein binding:77% to 82% (plasma protein)

Vd:1030L(oral):383L (IV)

Metabolism:

Hepatic: major

Substrate of UGT1A1 and UGT1A4

Weak inhibitor of CYP2C8 and CYP2C19

In vitro inhibitor of BCRP

Weak inducer of CYP3A4

Excretion

Renal excretion :73%,mostly as metabolites

Fecal excretion:23%,mostly as unchanged drug

Dialyzable:No

Total body clearance :31L/hr(oral);13L/hr (IV).

Elimination Half life:19 to 21 hours

ADVERSE EFFECTS:

Gastrointestinal:Abdominal pain(2%).Nausea(5%),Vommiting (2%)

Neurologic: Headache(12% to 15%)

Other: injection site pain(73%)

Serious

Endocrine metabolic: Hypoglycemia

MONITORING PARAMETERS:

Reduction in small pox symptoms may be indicated of efficacy.(IV):Before initiation and as clinically appropriate,especially in patients with mild(CrCl60to 89 ml/min) or moderate (CrCl30 to 59 ml/min) renal impairment.

Mr.Kaviarasan, III B.Pharm

technology that monitors or regulates brain activity using an implants
 Neuralink is developing a device that to be embedded in to the humans would record brain activity and transmits the data wirelessly to a componenet would done then the able to analyse these findlings and use them to electrically activity, it successful it can possibly be used to cure brain disease like parkinsons , neuralink has been tested on animals so far, but elon musk company hopes to start implanting its chips.

Neuro technology, while therapeutically very exciting remains very rises questions around rights to data and privacy. All in all future not entirely mapped out but with the continued rise and identifivation of disorders and conditions, neuro technology expected to experience conditions in the world wide health care market in coming years.

Ms.S. Janani, IV B.Pharm

TECOVIRMAT

BRANDNAME :

Topoxx

GENERIC NAME:

Tecovirimat

CATEGORY: v

Tecovirimat is an OrthopoxvirusVP37 Envelope Wrapping Protein Inhibitor

DOSAGEFORM :

Capusules ,injections,powders

DOSE:

200mg(CAPUSLES)

ADMINISTRATION:

Intravenous

(3kgto less tham 35kg) dilute 0.6 ml /kg of tecovirimat with 1.2 ml/of kg(35 kg to less than 120 kg) dilute 20 ml of tecovirimat with 40ml of Ns dilute 30 m of tecovirimat with 60 ml of NS or

D5.Do not use prefilled infusion bags for prefilled infusion bags for product preparation and administration.Gently swril the syringe of in use solution prior to inserting into the syringe infuse over 6 hours every 12 hours forn up to14 days.

Diluted tecovirimat injections may be stored in the refrigerator (2 to 8 degree C) 24 hours at room temperature (15 to25 degreesC) for up to 4 hours .Convert from IV to oral tecovirimat as soon as oral treatment can be tolerated. In patients receiving an IV infusion,the first dose of oral treatment should be given time of and in place of the next schedule IV dosing. In Patients receving an treatment who subsequently require IV Treatment who subsequently require,IVtreatment, the dose of IV infusion should be given at the time of and in place of the next scheduled oral dosing.

Nasogastric:

FDA APPROVED DRUGS :

NAME OF THE DRUG	INDICATIONS	DOSAGE FORM
Xenpozyme	To treat acid sphingomyelinase deficiency	Injections
Spevigo	To treat generelaized pustular Psoriasis flares	Injections
Daxxify	To treat glabellar lines associated with procerus muscles activity	Injections
Sotyktu	To treat moderate –to-severe plaque psoriasis	Tablet
Terlivaz	To improve kidney function in adults with hepatorenal syndrome With rapid reduction in kidney function	Injections
Relyvrio	To treat amyotropic lateral Sclerosis (ALS)	Powder for oral suspension.