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Name(s)

- Generic: elexacaftor/ivacaftor/tezacaftor (e LEX a KAF tor / EYE va KAF tor / TEXZ a KAF tor)
- Brand: Trikafta (currently brand only)

Therapeutic Category

Cystic Fibrosis Transmembrane Conductase Regulator (CFTR) Combination Product

Indication(s)

- 1. Treatment of Cystic Fibrosis
 - Only in patients that have at least one F508del mutation in the CFTR gene
 - Approved for usage in ages 12 years and older

Dosage Form / Strength / Dosing

- Dosage Form: Tablet
 - Combination tablets
 - elexacaftor 100mg + tezacaftor 50 mg + ivacaftor 75mg
 - Orange, capsule/oval-shaped tablet, T100 embossed on it
 - ivacaftor 150 mg
 - Light blue, capsule/oval-shaped tablet, V150 printed in black ink on it
- Dosing: 12 Years and Older
 - 2 tablets in the morning and 12 hours later one in evening
 - Morning tablets contains
 - elexacaftor 100mg
 - tezacaftor 50mg
 - ivacaftor 75mg
 - Evening tablet is
 - ivacaftor 150mg
- Dosing: Hepatic Impaired
 - o If MODERATE impairment there is NO evening ivacaftor dose
 - If SEVERE impairment patient cannot use
 - o Otherwise normal dosing schedule
- Dosing: Patients on CYP3A Inhibitors
 - o MODERATE inhibitors: No evening ivacaftor doses
 - STRONG Inhibitors: Morning doses every 48 hours (2 days) with NO evening ivacaftor doses
- Missed doses:
 - o If less than 6 hours have passed take missed dose immediately then continue schedule
 - If greater than 6 hours have passed
 - If morning combination tablet was missed then take missed dose(s) and skip evening
 - If evening ivacaftor dose was missed, skip the dose



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Mechanism of Action & Pharmacology

- **elexacaftor + tezacaftor** bind to different CFTR protein sites. This additive effect aids in the increased cellular processing of F508del-CFTR substrate which increases the amount of CFTR proteins delivered to the cell surface.
- ivacaftor potentiates the channel opening of the CFTR proteins at the cell surface
- The combination of exlexacaftor+tezacaftor+ivacaftor increases the function of the F508del-CFTR substrate at the cells surface which increases chloride transport.
- Time to steady state: elexacaftor w/in 14 days | tezacaftor w/in 8 days | ivacaftor w/in 3-5 days
- Protein bound: >99% | Excretion: Primarily fecally (72 to 87%)
- Elimination: elexacaftor 1.18 L/hour | tezacaftor 0.79 L/hour | ivacaftor 10.2 L/hour

Side Effects

• Headache, abdominal pain, diarrhea, rash

Drug Interactions

- elexacaftor, tezacaftor, ivacaftor are CYP3A substrates
- CYP3A inducers such as rifampin, phenobarbital, carbamazepine, phenytoin, St. John's wort
- CYP3A inhibitors such as ketoconazole, itraconazole, clarithromycin
- ivacaftor is CYP2C9 inhibitor, caution warfarin

Monitoring Parameters

- Liver function tests (ALT, AST, bilirubin)
 - Test every 3 month for 1st year, then annually after
 - Watch for elevated transaminases and bilirubin
 - Halt dosing if:
 - ALT or AST are >5 and the upper limit of normal (ULN)
 - Or ALT or AST > 3 and ULN with bilirubin >2 and ULN
 - Monitor tests until levels resolved
 - Consider risk/reward of resuming treatment

Patient Counseling Information

- Tablets swallowed whole
- Taken with fat-containing food (cheeses, nuts, meats, or foods prepared with butter and oils)

Reference(s)

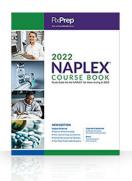
UPDATED: 9/24/2020

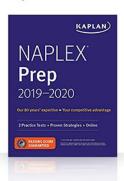
https://www.drugs.com/pro/trikafta.html



PREPARE FOR SUCCESS!

Comprehensive (NAPLEX)

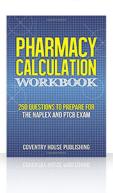


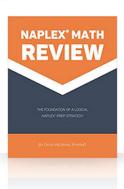


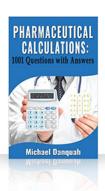


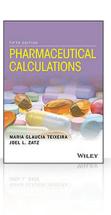


Calculations (NAPLEX)

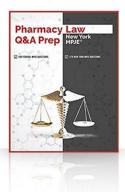






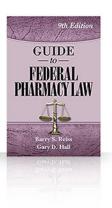


Pharmacy Law (MPJE)









Supplemental









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DRUG CARDS D A I L Y

Monday at 7 am EST (6 am CST, 4 am PST)

HEY NEW GRAD!

So you landed that perfect job offer or got the perfect match for your PGY1 and now the **ONLY** thing standing in your way is passing the NAPLEX and MPJE.

Here are some NAPLEX & MPJE prep recommendations to help you do everything you can to pass the first time!

HEY STUDENT!

When I was P1 one of the best pieces of advice I got from those before me was to use a NAPLEX Prep book while learning each topic.

This helps focus your learning and the repetition helps to retain info and indirectly prepare you for the NAPLEX









