

2023 Novel Drug Approvals

A Presentation for HealthTrust Members

March 6, 2023

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Clinical Management Fellow in Drug Information

Belmont University/HealthTrust

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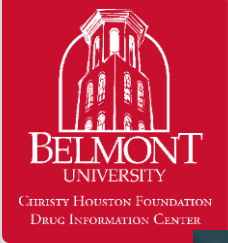
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Belmont University/Aegis Sciences Corporation/FDA

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Director, Christy Houston Foundation Drug Information
Center/Associate Professor of Pharmaceutical,
Social & Administrative Sciences
Belmont University College of Pharmacy & Health Sciences

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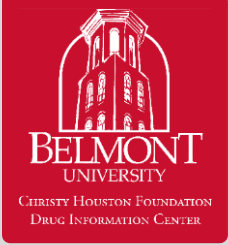


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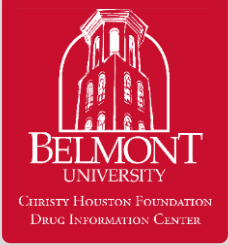
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Objectives

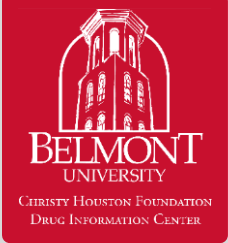
1. Recognize the new molecular entities approved by the Food and Drug Administration (FDA) in 2023
2. Recall the indications and drug classes of the new drugs
3. Identify common adverse events, available dosage forms, and clinical pearls of the new drugs

Abbreviations

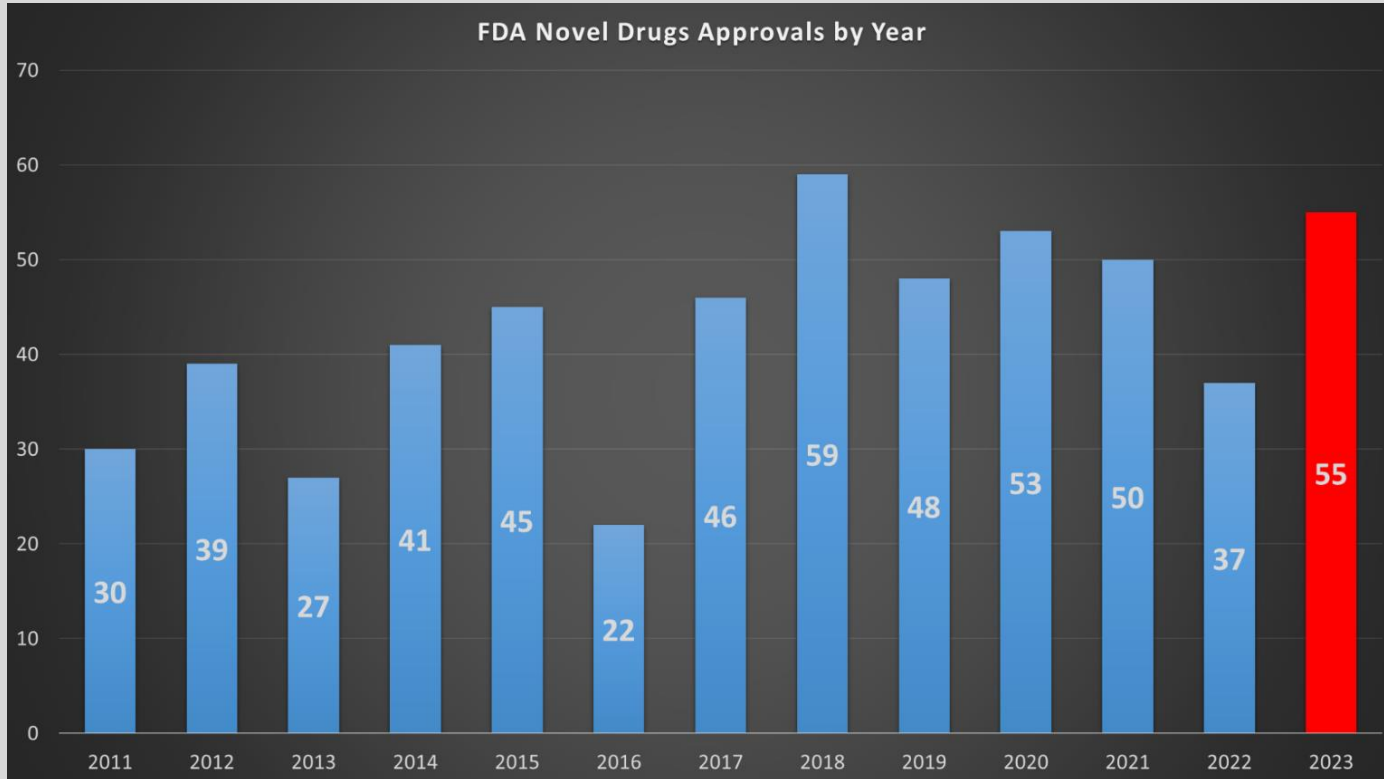
ABC: *Acinetobacter baumannii-calcoaceticus* complex
ACM: All-cause mortality
AE: Adverse event
ARIA-H: Amyloid-related imaging abnormalities - haemosiderin
ARIA-E: Amyloid-related imaging abnormalities - edema
ALT: Alanine transaminase
AST: Aspartate aminotransferase
CBC: Complete blood count
CDC: Centers for Disease Control and Prevention
CDR-SB: Clinical dementia rating-sum of boxes
CGRP: Calcitonin Gene-Related Peptide
CI: Confidence Interval
CNS: Central nervous system
CRBSI: Catheter-related bloodstream infection
CVC: Central venous catheter
DDI: Drug-drug interaction
DSM-IV: Diagnostic and statistical manual of mental disorders-IV
DSN: Duration of severe neutropenia
ECG: Electrocardiogram
ECOG: Eastern Cooperative Oncology Group
eGFR: Estimated glomerular filtration rate
ESA: Erythropoietin stimulating agent

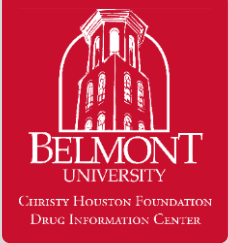
FN: Febrile neutropenia
GABA: Gamma-aminobutyric acid
HAM-D-17: Hamilton rating scale for depression
HbA1c: Glycated hemoglobin
HFpEF: Heart failure with preserved ejection fraction
HFrEF: Heart failure with reduced ejection fraction
HIT: Heparin-induced thrombocytopenia
HIF: Hypoxia-inducible factor
IL: Interleukin
IM: Intramuscular
IV: Intravenous
LDL: Low-density lipoprotein
LFT: Liver function test
MACE: Major adverse cardiovascular event
MAOI: Monoamine oxidase inhibitor
MDD: Major depressive disorder
NaCl: Sodium chloride
OAT1: Organic anion transporter 1 inhibitor
PET: Positron-emission tomography
PH: Prolyl hydroxylase

PO: By mouth
PPD: Postpartum depression
RSV: Respiratory syncytial virus
SE: Standard error of the mean
SGLT1: Sodium-glucose co-transporter 1
SGLT2i: Sodium-glucose co-transporter 2
SubQ: Subcutaneous
T2DM: Type 2 Diabetes Mellitus
TA: Taxane and anthracycline
TB: Tuberculosis
tCFS: Total corneal fluorescein staining
TEAE: Treatment emergent adverse event
TNF: Tumor necrosis factor
URTI: Upper respiratory tract infection
UTI: Urinary tract infection
VAS: Visual analogue scale



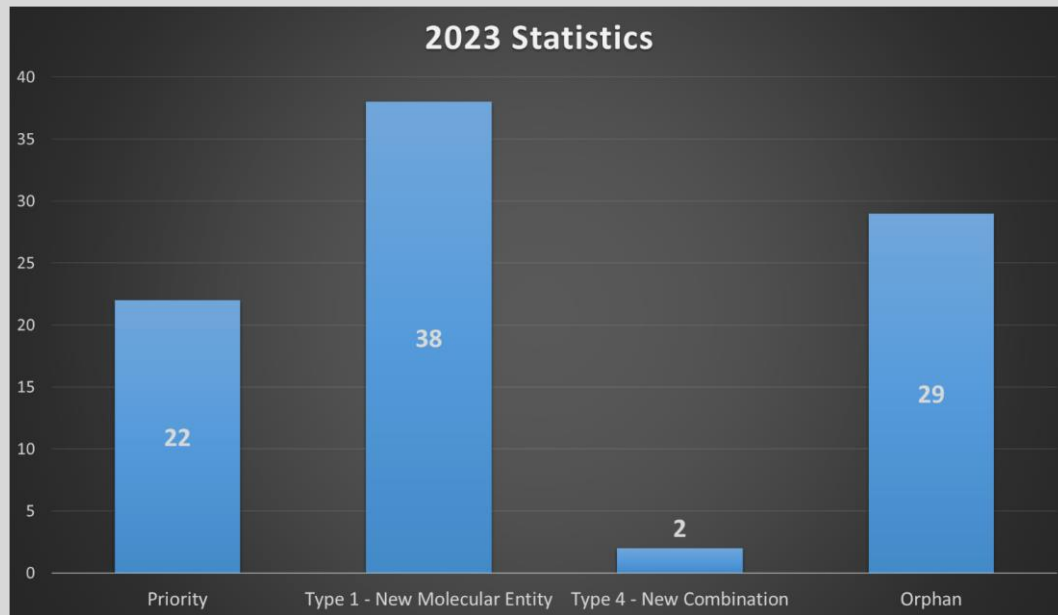
FDA Novel Drug Approvals by Year

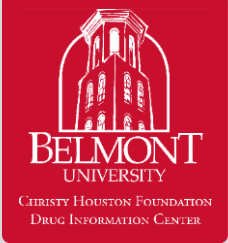




2023 Statistics

- Priority: 22/55
- Type 1: New Molecular Entity: 38/55
- Type 4: New Combination: 2/55
- Orphan: 29/55

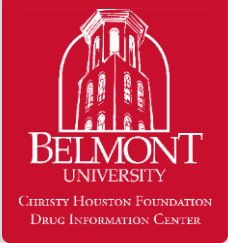




Approved Medications

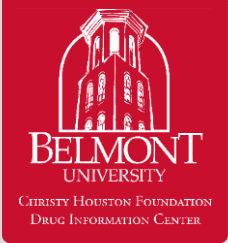
- Legembi[®]
- Brenzavvy[®]
- Jaypirca[®]
- Orserdu[®]
- Jesduvroq[®]
- Lamzede[®]
- Filspari[®]
- Skyclarys[®]
- Zavzpret[®]
- Daybue[®]
- Zynyz[®]
- Rezzayo[®]
- Joenja[®]
- Qalsody[®]
- Elfabrio[®]
- Veozah[®]
- Miebo[®]
- Epkinly[®]
- Xacduro[®]
- Paxlovid[®]
- Posluma[®]
- Inpefa[®]
- Columvi[®]
- Litfulo[®]
- Rystiggo[®]
- Ngenla[®]
- Beyfortus[®]
- Vanflyta[®]
- Xdemvy[®]
- Zurzuvae[®]
- Izervay[®]
- Talvey[®]
- Elrexio[®]
- Sohonos[®]
- Veopoz[®]
- Aphexda[®]
- Ojjaara[®]
- Exxua[®]
- Pombiliti[®]
- Rivfloza[®]
- Velsipity[®]
- Zilbrysq[®]
- Bimzelx[®]
- Agamree[®]
- Omvoh[®]
- Loqtorzi[®]
- Fruzaqla[®]
- Defencath[®]
- Augtyro[®]
- Ryzneuta[®]
- Truqap[®]
- Ogsiveo[®]
- Fabhalta[®]
- Filsuvez[®]
- Wainua[®]

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2023 Approved Medications

- Legembi[®] (lecanemab)
- Brenzavvy[®] (bexagliflozin)
- Jesduvroq[®] (daprodustat)
- Zavzpret[®] (zavegepant)
- Rezzayo[®] (rezafungin)
- Veozah[®] (fezolinetant)
- Miebo[®] (perfluorhexyloctane)
- Xacduro[®] (sulbactam and durlobactam)
- Inpefa[®] (sotagliflozin)
- Beyfortus[®] (nirsevimab)
- Zurzuvae[®] (zuranolone)
- Exxua[®] (gepirone)
- Omvoh[®] (mirikizumab)
- Defencath[®] (taurolidine and heparin)
- Ryzneuta[®] (efbemalenograstim alfa)



Leqembi®

Lecanemab-irmb (lek-AN-e-mab)

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|--|--|
| Approval Date | 1/6/2023 |
| Indication | Alzheimer's disease |
| Class | Anti-amyloid monoclonal antibody; immune globulin; monoclonal antibody |
| Mechanism of Action | A humanized monoclonal antibody that reduces amyloid plaques by directing against aggregated both soluble and insoluble amyloid beta forms |
| Common Adverse Events (>10%) | Infusion-related reaction (20% to 26%), hemosiderosis (ARIA-H, including microhemorrhage and superficial siderosis: 6% to 17%), headache (11% to 14%), brain edema (ARIA-E, including sulcal effusion: 10% to 13%) |
| Dosage Forms | IV solution |
| Clinical Pearls | <ul style="list-style-type: none"> • For those with mild cognitive impairment • Dosing based on actual body weight; given once every 2 weeks • Confirm presence of amyloid beta pathology prior to treatment • Testing for apolipoprotein ε4 is recommended prior to treatment |
| Cost (WAC) | 2 mL of 100 mg/1 mL IV solution, \$254.81; 5 mL of 100 mg/1 mL IV solution, \$637.02 |

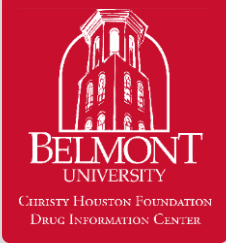
Lecanemab. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated November 7, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Leqembi. Package insert. Eisai Inc.; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

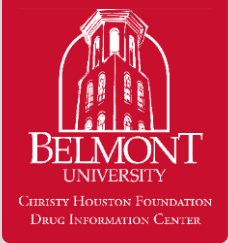
Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

FROM HERE TO ANYWHERE



Leqembi[®]: Clinical Trials

| | | | |
|--------------------------|---|---|--|
| Study | Van Dyck CH, Swanson CJ, Aisen P, et al. Lecanemab in early alzheimer's disease. <i>NEJM</i> . 2023;388(1):9-21. doi: 10.1056/NEJMoa2212948 | | |
| Study Objective | "To determine the safety and efficacy of lecanemab in participants with early Alzheimer's disease" | | |
| Study Design | Multicenter, double-blind, phase 3 trial | | |
| Study Subjects | Persons 50-90 years of age with early Alzheimer's disease with evidence of amyloid on PET or by cerebrospinal fluid testing | | |
| Intervention | Randomly assigned 1:1 ratio to receive IV lecanemab (10 mg/kg) or placebo every 2 weeks | | |
| Primary Endpoint | Change from baseline to 18 months in on the CDR-SB | | |
| Efficacy Results | Lecanemab (N = 898) | Placebo (N = 897) | Difference (95% CI); p-value |
| | <ul style="list-style-type: none"> ● Mean baseline CDR-SB score: 3.2 ● Mean change from baseline at 18 months: 1.21 | <ul style="list-style-type: none"> ● Mean baseline CDR-SB score: 3.2 ● Mean change from baseline at 18 months: 1.66 | -0.45 (-0.67 to -0.23); p < 0.001 |
| Safety Results | <ul style="list-style-type: none"> ● Serious adverse event (14.0 % vs 11.3 %) ● Death (0.7 % vs 0.8 %) | <ul style="list-style-type: none"> ● Infusion-related reaction (26.4 % vs 7.4 %) ● ARIA-H (14.0 % vs 7.7 %) | <ul style="list-style-type: none"> ● ARIA-E (12.6 % vs 1.7 %) ● Headache (11.1 % vs 8.1 %) |
| Additional Trials | NCT01767311 active, non-recruiting; NCT03887455 active, non-recruiting; NCT04468659 recruiting; NCT05269394 recruiting | | |



Brenzavvy®

bexagliflozin (BEX-a-gli-FLOE-zin)

| | |
|--------------------------------------|---|
| Approval Date | 1/20/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Treatment for T2DM |
| Class | Antidiabetic agent, SGLT2 inhibitor |
| Mechanism of Action | Increases urinary glucose excretion by reducing renal reabsorption of filtered glucose and lowering the renal threshold for glucose due to SGLT2 inhibition. |
| Common Adverse Events (1-10%) | Diuresis (7%; including nocturia, polyuria, urinary frequency, and urinary urgency), urinary tract infection (6%; including urinary tract infection with sepsis), vaginal mycosis (6%; including vulvovaginal candidiasis), vulvovaginal pruritus (3%), increased thirst (3%), increased hemoglobin (3%), hypoglycemia (2%), increased LDL cholesterol (2%), male genital disease (2%; including balanoposthitis, localized fungal infection), tinea cruris (2%), increased hematocrit (1%) |
| Dosage Forms | Tablet |
| Clinical Pearls | <ul style="list-style-type: none">• If present, correct hypovolemia before treatment initiation• Administer in the morning without regard to meals• Not recommended if eGFR < 30 mL/min/1.73m²• Swallow tablet whole; do not crush or chew |
| Cost (WAC) | 30 count of 20 mg tablets, \$39.00; 90 count of 20 mg tablets, \$117.00 |

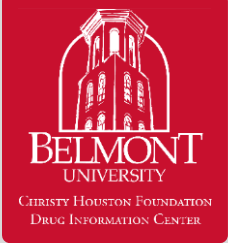
Bexagliflozin. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated December 19, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Brenzavvy. Package insert. TheracosBio, LLC; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

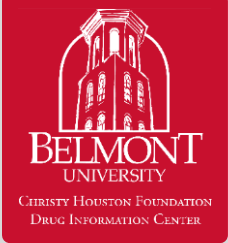
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Brenzavvy®: Clinical Trials

| | | | |
|--------------------------|--|--|---------------------|
| Study | NCT02715258 | | |
| Study Objective | “Evaluate the efficacy and safety of Brenzavvy monotherapy” | | |
| Study Design | Randomized, double-blind, multi-center, placebo-controlled trial | | |
| Study Subjects | Adults with T2DM inadequately controlled (HbA1c 7-10.5 %) | | |
| Intervention | Randomized 2:1 to Brenzavvy 20 mg PO once daily or placebo | | |
| Primary Endpoint | Reduction in HbA1c | | |
| Efficacy Results | Brenzavvy (N = 138) | Placebo (N = 69) | Difference (95% CI) |
| | <ul style="list-style-type: none"> ● Mean baseline HbA1c: 8.1 ● Change from baseline at 24 weeks: -0.5 | <ul style="list-style-type: none"> ● Mean baseline HbA1c: 7.9 ● Change from baseline at 24 weeks: (-0.1) | -0.4 (-0.6 to -0.1) |
| Safety Results | None reported | | |
| Additional Trials | NCT03259789; NCT02769481; NCT03115112; NCT02836873; NCT02558296; NCT05612594 (not yet recruiting, sleep apnea) | | |



Jesduvroq[®]

daprodustat (DAP-roe-DOO-stat)

| | |
|--|--|
| Approval Date | 2/1/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Anemia due to chronic kidney disease |
| Class | Hypoxia-inducible factor prolyl hydroxylase inhibitor |
| Mechanism of Action | Causes stabilization and nuclear accumulation of HIF-1a and HIF-2a transcription factors by increasing the transcription of HIF responsive genes through reversible inhibition of HIF-PH1, PH2, and PH3 |
| Common Adverse Events (>10%) | Exacerbation of hypertension (24%; serious 3%), abdominal pain (11%) |
| Dosage Forms | Tablet |
| Clinical Pearls | <ul style="list-style-type: none">• Ensure patient has adequate iron stores before initiating and during therapy• Administer without regard to meals• Swallow tablet whole; do not cut, chew, or crush |
| Cost (WAC) | 30 count of 1 mg tablets, \$117.30; 30 count of 2 mg tablets, \$234.60; 30 count of 4 mg tablets, \$469.20; 30 count of 6 mg tablets, \$703.80; 30 count of 8 mg tablets, \$938.40 |

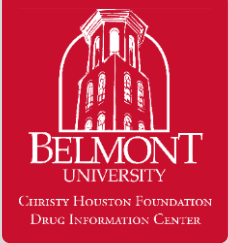
Daprodustat. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated January 29, 2024. Accessed January 30, 2024. <https://online.lexi.com>

Jesduvroq. Package insert. GlaxoSmithKline LLC; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

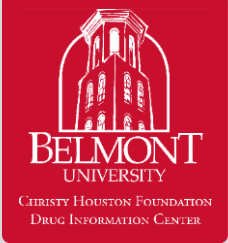
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Jesduvroq[®]: Clinical Trials

| | |
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| Study | Singh AK, Carroll K, Perkovic V, et al. Daprodustat for the treatment of anemia in patients undergoing dialysis. <i>N Engl J Med.</i> 2021;385(25):2325-2335. doi:10.1056/NEJMoa2113379 |
| Study Objective | “evaluate the safety and efficacy of daprodustat” |
| Study Design | Phase 3, randomized, open-label, noninferiority, multi-center, parallel-group, active-controlled study |
| Study Subjects | Adults with chronic kidney disease who have been treated with dialysis for at least 90 days and have had been treated with an ESA for at least 6 weeks with a hemoglobin level of 8.0 to 12.0 g/dL |
| Intervention | Randomized 1:1 to oral daprodustat or an injectable ESA |
| Primary Endpoint | Co-primary endpoints of mean change in hemoglobin level from baseline to average (weeks 28 to 52) and first occurrence of MACE |

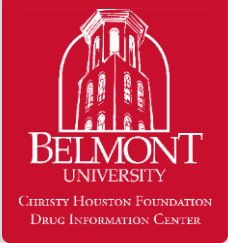
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Jesduvroq[®]: Clinical Trials

| Efficacy Results | Daprodustat (N=1487) | ESA (N=1477) | Difference (95% CI) Hazard Ratio |
|-------------------|--|--|--|
| Safety Results | <ul style="list-style-type: none"> ● Change in hemoglobin level from baseline to average (weeks 28 to 52): 0.28±0.02 ● MACE: 374 (25.2%) | <ul style="list-style-type: none"> ● Change in hemoglobin level from baseline to average (weeks 28 to 52): 0.10±0.02 ● MACE: 394 (26.7%) ● Death any cause (16.4% vs 15.8%) | <ul style="list-style-type: none"> ● 0.18 (0.12 to 0.24) ● 0.93 (0.81 to 1.07) ● Non-fatal myocardial infarction (6.8% vs 8.5%) |
| Additional Trials | NCT05682326 (recruiting), NCT05951192 (Active), 31 other completed trials, 3 terminated trials | | |

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Zavzpret®

zavegepant (za-VE-je-pant)

| | |
|--|--|
| Approval Date | 3/9/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Acute treatment for moderate to severe migraines |
| Class | Antimigraine agent; CGRP receptor antagonist |
| Mechanism of Action | Calcitonin gene related peptide receptor antagonist |
| Common Adverse Events (>10%) | Taste disorder (18%) |
| Dosage Forms | Intranasal spray |
| Clinical Pearls | <ul style="list-style-type: none">● NOT for preventative migraine treatment● Administer at the first sign of migraine attack● Administer intranasal decongestants ≥1 hour after zavegepant |
| Cost (WAC) | 6x (10 mg/1 spray) of nasal spray, \$1,100.00 |

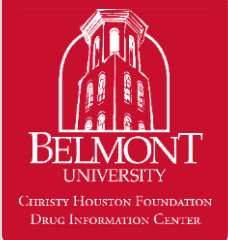
Zavegepant. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated December 1, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Zavzpret. Package insert. Pfizer Laboratories Div Pfizer Inc; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

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Zavzpret[®]: Clinical Trials

| | |
|-------------------------|--|
| Study | Lipton RB, Croop R, Stock DA, et al. Safety, tolerability, and efficacy of zavegepant 10 mg nasal spray for the acute treatment of migraine in the USA: a phase 3, double-blind, randomised, placebo-controlled multicentre trial. <i>Lancet Neurol.</i> 2023;22(3):209-217. doi:10.1016/S1474-4422(22)00517-8 |
| Study Objective | “Test the safety and efficacy of zavegepant” |
| Study Design | Phase 3, double-blind, randomised, multicentre trial |
| Study Subjects | Adults who have had a history of migraine with/without aura for at least 1 year. |
| Intervention | Randomized 1:1 to zavegepant 10 mg nasal spray or placebo nasal spray |
| Primary Endpoint | Coprimary endpoints of pain freedom and freedom from the most bothersome symptom associated with migraine at 2 hours after first dose |

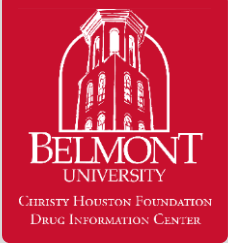
Zavzpret. Package insert. Pfizer Laboratories Div Pfizer Inc; 2023.

Lipton RB, Croop R, Stock DA, et al. Safety, tolerability, and efficacy of zavegepant 10 mg nasal spray for the acute treatment of migraine in the USA: a phase 3, double-blind, randomised, placebo-controlled multicentre trial. *Lancet Neurol.* 2023;22(3):209-217. doi:10.1016/S1474-4422(22)00517-8

Randomized trial in adult participants with acute migraines. ClinicalTrials.gov identifier: NCT04571060. Updated April 24, 2023. Accessed February 9, 2024.

<https://clinicaltrials.gov/study/NCT04571060?term=NCT04571060&rank=1>

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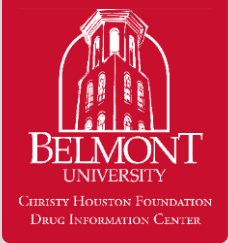


Zavzpret[®]: Clinical Trials

| Efficacy Results | Zavegepant 10 mg (N=623) | Placebo (N=646) | Difference from placebo |
|-------------------|--|---|--|
| | <ul style="list-style-type: none"> • Pain free at 2 hours: 24% • Most bothersome symptom free at 2 hours: 40% | <ul style="list-style-type: none"> • Pain free at 2 hours: 15% • Most bothersome symptom free at 2 hours: 31% | <ul style="list-style-type: none"> • 8.8% (4.5 to 13.1);p<0.001 • 8.7% (3.4 to 13.9);p<0.001 |
| Safety Results | <ul style="list-style-type: none"> • Reported AE (30% vs. 16%) • Local irritation (23% vs. 7%) • Dysgeusia (21% vs. 5%) | | |
| Additional Trials | NCT05989048 (Recruiting), NCT04804033 (Active), NCT06103734 (Not yet recruiting), 2 (Terminated), 6 (Completed) | | |

Zavzpret. Package insert. Pfizer Laboratories Div Pfizer Inc; 2023.
 Lipton RB, Croop R, Stock DA, et al. Safety, tolerability, and efficacy of zavegepant 10 mg nasal spray for the acute treatment of migraine in the USA: a phase 3, double-blind, randomised, placebo-controlled multicentre trial. *Lancet Neurol.* 2023;22(3):209-217. doi:10.1016/S1474-4422(22)00517-8
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<https://clinicaltrials.gov/study/NCT04571060?term=NCT04571060&rank=1>

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Rezzayo[®]

rezafungin (RE-za-FUN-jin)

| | |
|--|---|
| Approval Date | 3/22/2023 Type 1 - New Molecular Entity, PRIORITY; Orphan |
| Indication | Treatment of Candidemia and invasive candidiasis in adults |
| Class | Antifungal agent; echinocandin |
| Mechanism of Action | Causes osmotic instability and cellular lysis of the fungal cell walls of the <i>candida</i> species by decreasing glucagon content through the reduced formation of 1,3-beta-D-glucan due to rezafungins concentration-dependant inhibition of 1,3-beta-D-glucan synthase. |
| Common Adverse Events (>10%) | Hypokalemia (15%), fever (12%), diarrhea (11%) |
| Dosage Forms | IV solution |
| Clinical Pearls | <ul style="list-style-type: none">• Missed dose instructions vary from ≤ 3 days, >3 days, and ≥ 2 weeks missed• Infuse over 1 hour• You can reduce infusion rate if an infusion reaction occurs |
| Cost (WAC) | 200 mg IV solution, \$1,950.00 |

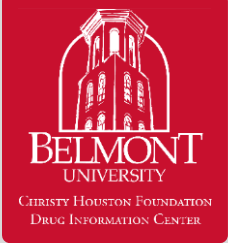
Rezafungin. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated December 29, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Rezzayo. Package insert. Melinta Therapeutics, LLC; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

FROM HERE TO ANYWHERE



Rezzayo[®]: Clinical Trials

| | |
|-------------------------|---|
| Study | Thompson GR 3rd, Soriano A, Cornely OA, et al. Rezafungin versus caspofungin for treatment of candidaemia and invasive candidiasis (ReSTORE): a multicentre, double-blind, double-dummy, randomised phase 3 trial. <i>Lancet</i> . 2023;401(10370):49-59. doi:10.1016/S0140-6736(22)02324-8 |
| Study Objective | Determine the efficacy and safety of intravenous rezafungin in the treatment of invasive candidiasis and/or candidemia when compared to caspofungin |
| Study Design | Randomized, double-blind, prospective, multicenter, double-dummy, non-inferiority phase 3 study |
| Study Subjects | Adults with signs of systemic candidaemia or invasive candidiasis |
| Intervention | Randomized 1:1 to IV rezafungin or IV caspofungin (followed by oral step down therapy)** |
| Primary Endpoint | Co-primary endpoints: global cure at the day 14 visit and 30 day all-cause mortality |

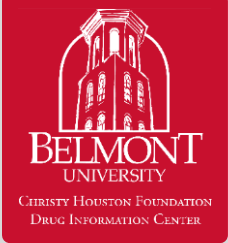
Rezzayo. Package insert. Melinta Therapeutics, LLC; 2023.

Thompson GR 3rd, Soriano A, Cornely OA, et al. Rezafungin versus caspofungin for treatment of candidaemia and invasive candidiasis (ReSTORE): a multicentre, double-blind, double-dummy, randomised phase 3 trial. *Lancet*. 2023;401(10370):49-59. doi:10.1016/S0140-6736(22)02324-8

Study of rezafungin compared to caspofungin in subjects with candidemia and/or invasive candidiasis (ReSTORE). ClinicalTrials.gov identifier: NCT03667690.

Updated January 6, 2023. Accessed February 12, 2024. <https://clinicaltrials.gov/study/NCT03667690?term=NCT03667690&rank=1>

FROM HERE TO ANYWHERE



Rezzayo[®]: Clinical Trials

| Efficacy Results | Rezafungin (N=93) | Caspofungin (N=94) | Difference (95% CI) |
|-------------------|--|---|---|
| | <ul style="list-style-type: none"> 30 day all-cause mortality: 23.7% Global cure at day 14: 59.1% | <ul style="list-style-type: none"> 30 day all-cause mortality: 21.3% Global cure at day 14: 60.6% | <ul style="list-style-type: none"> 2.4 (-9.7, 14.4) -1.5 (-15.4, 12.5) |
| Safety Results | <ul style="list-style-type: none"> 30 day all-cause mortality: 23.7% vs. 21.3% Hypokalemia: 13% vs. 9% | <ul style="list-style-type: none"> Patients with ≥ 1 adverse event: 91% vs. 85% Pneumonia: 10% vs. 3% | <ul style="list-style-type: none"> Pyrexia: 14% vs. 5% Septic shock: 10% vs. 9% |
| Additional Trials | NCT05534529, NCT04368559 (recruiting), NCT05835479 (not yet recruiting), NCT04117607 (terminated), 5 completed | | |

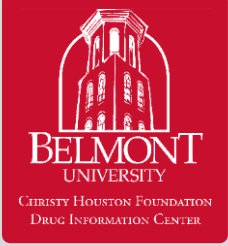
Rezzayo. Package insert. Melinta Therapeutics, LLC; 2023.

Thompson GR 3rd, Soriano A, Cornely OA, et al. Rezafungin versus caspofungin for treatment of candidaemia and invasive candidiasis (ReSTORE): a multicentre, double-blind, double-dummy, randomised phase 3 trial. *Lancet*. 2023;401(10370):49-59. doi:10.1016/S0140-6736(22)02324-8

Study of rezafungin compared to caspofungin in subjects with candidemia and/or invasive candidiasis (ReSTORE). ClinicalTrials.gov identifier: NCT03667690.

Updated January 6, 2023. Accessed February 12, 2024. <https://clinicaltrials.gov/study/NCT03667690?term=NCT03667690&rank=1>

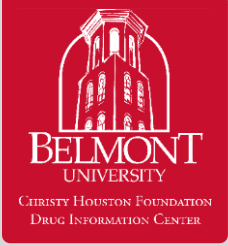
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Assessment Question #1

Which novel drug did the FDA approve in 2023?

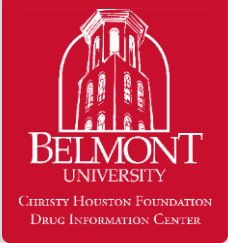
- A. NexoBrid[®]
- B. Cibinqo[®]
- C. Sotyktu[®]
- D. Leqembi[®]



Assessment Question #1: Correct Response

Which novel drug did the FDA approve in 2023?

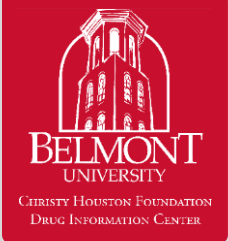
- A. Nexobrid[®]
- B. Cibinqo[®]
- C. Sotyktu[®]
- D. Leqembi[®]**



Veozah®

fezolinetant (FEZ-oh-LIN-e-tant)

| | |
|--------------------------------------|--|
| Approval Date | 5/12/2023 Type 1 - New Molecular Entity, PRIORITY |
| Indication | Vasomotor symptoms associated with menopause |
| Class | Neurokinin 3 receptor antagonist |
| Mechanism of Action | Modulates neuronal activity in the thermoregulatory center through neurokinin 3 receptor antagonist blocking neurokinin B binding on the kisspeptin/neurokinin B/dynorphin neuron |
| Common Adverse Events (1-10%) | Abdominal pain (4%), diarrhea (4%), insomnia (4%), hot flash (3%), back pain (3%), increased serum transaminases (2%) |
| Dosage Forms | Tablet |
| Clinical Pearls | <ul style="list-style-type: none">• Administer close to the same time each day with liquids• Test LFTs prior to starting treatment• DO NOT begin treatment if patients ALT, AST, an/or total bilirubin is greater than or equal to 2x the upper normal limit |
| Cost (WAC) | 30 count of 45 mg tablets, \$550.00 |



Veozah[®]: Clinical Trials

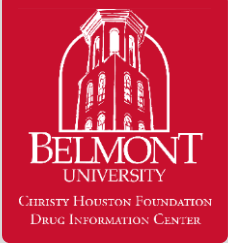
| | |
|-------------------------|---|
| Study | Lederman S, Ottery FD, Cano A, et al. Fezolinetant for treatment of moderate-to-severe vasomotor symptoms associated with menopause (SKYLIGHT 1): a phase 3 randomised controlled study. <i>Lancet</i> . 2023;401(10382):1091-1102. doi:10.1016/S0140-6736(23)00085-5 |
| Study Objective | “Evaluate the efficacy of fezolinetant versus placebo on the frequency and severity of moderate-to-severe vasomotor symptoms.” |
| Study Design | Randomised, double-blind, placebo-controlled, phase 3 trial |
| Study Subjects | Women 40-65 years of age experiencing an average of ≥ 7 moderate to severe hot flashes a day |
| Intervention | Randomized 1:1:1 to fezolinetant 30 mg orally once daily, fezolinetant 45 mg orally once daily, or matching placebo |
| Primary Endpoint | Copriary endpoints: mean change in frequency of moderate-to-severe vasomotor symptoms from baseline to weeks 4 and 12, mean change in severity of moderate-to-severe vasomotor symptoms from baseline to weeks 4 and 12. |

Veozah. Package insert. Astellas Pharma US, Inc.; 2023.

Lederman S, Ottery FD, Cano A, et al. Fezolinetant for treatment of moderate-to-severe vasomotor symptoms associated with menopause (SKYLIGHT 1): a phase 3 randomised controlled study. *Lancet*. 2023;401(10382):1091-1102. doi:10.1016/S0140-6736(23)00085-5

A study to find out if fezolinetant helps reduce moderate to severe hot flashes in women going through menopause (Skylight 1). ClinicalTrials.gov identifier: NCT04003155. Updated September 6, 2023. Accessed February 12, 2024. <https://clinicaltrials.gov/study/NCT04003155?term=NCT04003155&rank=1>

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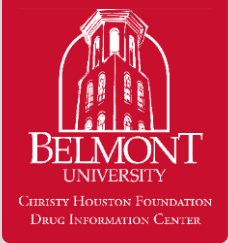


Veozah[®]: Clinical Trials

| Efficacy Results | Fezolinetant 45 mg (N=174) | Placebo (N=175) | |
|-------------------|---|--|--|
| | <ul style="list-style-type: none"> ● Baseline Mean: 10.4 ● Mean frequency change from baseline to week 4: -5.4 ● Difference vs Placebo (95% CI): -2.1 (-2.9, -1.3) ● P value vs placebo: <0.001 <ul style="list-style-type: none"> ● Baseline Mean: 10.4 ● Mean frequency change from baseline to week 12: -6.4 ● Difference vs Placebo (95% CI): -2.6 (-3.4, -1.7) ● P value vs placebo: <0.001 <ul style="list-style-type: none"> ● Baseline Mean: 2.4 ● Mean severity change from baseline to week 4: -0.5 ● Difference vs Placebo (95% CI): -0.2 (-0.3, -0.1) ● P value vs placebo: 0.002 <ul style="list-style-type: none"> ● Baseline Mean: 2.4 ● Mean severity change from baseline to week 12: -0.6 ● Difference vs Placebo (95% CI): -0.2 (-0.4, -0.1) ● P value vs placebo: 0.007 | <ul style="list-style-type: none"> ● Baseline Mean: 10.5 ● Mean frequency change from baseline to week 4: -3.3 | <ul style="list-style-type: none"> ● Baseline Mean: 10.5 ● Mean frequency change from baseline to week 12: -3.9 <ul style="list-style-type: none"> ● Baseline Mean: 2.4 ● Mean severity change from baseline to week 4: -0.3 <ul style="list-style-type: none"> ● Baseline Mean: 2.4 ● Mean severity change from baseline to week 12: -0.4 |
| Safety Results | <ul style="list-style-type: none"> ● Headache: 6% vs. 7% ● Depression : 2% vs. 1% | <ul style="list-style-type: none"> ● Blood glucose increase: 3% vs. 0% ● Any TEAE: 43% vs 45% | <ul style="list-style-type: none"> ● Liver test elevations: 4% vs. 3% |
| Additional Trials | NCT06049797 (recruiting), NCT06206408 and NCT06206421 (not yet recruiting), 15 (completed) | | |

Veozah. Package insert. Astellas Pharma US, Inc.; 2023.
 Lederman S, Ottery FD, Cano A, et al. Fezolinetant for treatment of moderate-to-severe vasomotor symptoms associated with menopause (SKYLIGHT 1): a phase 3 randomised controlled study. *Lancet*. 2023;401(10382):1091-1102.
 doi:10.1016/S0140-6736(23)00085-5
 A study to find out if fezolinetant helps reduce moderate to severe hot flashes in women going through menopause (SkyLight 1). [ClinicalTrials.gov](https://clinicaltrials.gov/ct2/show/study/NCT04003155?term=NCT04003155&rank=1) identifier: NCT04003155. Updated September 6, 2023. Accessed February 12, 2024.
<https://clinicaltrials.gov/ct2/show/study/NCT04003155?term=NCT04003155&rank=1>

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Miebo®

perfluorhexyloctane (per-FLOOR-oh-HEX-il-OK-tane)

| | |
|--------------------------------------|---|
| Approval Date | 5/18/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Dry eye disease |
| Class | Ophthalmic agent; ophthalmic semifluorinated alkane |
| Mechanism of Action | Reduces evaporation by forming a monolayer at the air-liquid interface of the tear film |
| Common Adverse Events (1-10%) | Blurred vision (1-3%), conjunctival erythema (1-3%) |
| Dosage Forms | Ophthalmic solution |
| Clinical Pearls | <ul style="list-style-type: none">Remove contact lenses before administration and wait at least 30 minutes before putting them back in. |
| Cost (WAC) | 3 mL of the solution, \$771.00 |

Perfluorhexyloctane. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated May 18, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Miebo. Package insert. Bausch & Lomb Incorporated; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

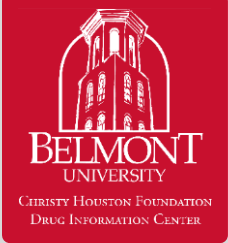
Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

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Miebo[®]: Clinical Trials

| | | | |
|--------------------------|---|---|--|
| Study | Tauber J, Berdy GJ, Wirta DL, Krösser S, Vittitow JL; GOBI Study Group. NOV03 for dry eye disease associated with meibomian gland dysfunction: results of the randomized phase 3 GOBI study. <i>Ophthalmology</i> . 2023;130(5):516-524. doi:10.1016/j.ophtha.2022.12.021 | | |
| Study Objective | "To evaluate the efficacy and safety of perfluorhexyloctane" | | |
| Study Design | Randomized, multicenter, double-masked, phase 3 trial | | |
| Study Subjects | Adults with a self reported history of dry eye disease in both eyes for 6 months or more | | |
| Intervention | Randomized 1:1 to NOVO3 or hypotonic saline solution instill 1 drop to eye 4 times a day for 8 weeks | | |
| Primary Endpoint | Coprimary endpoints of change from baseline at week 8 in total corneal fluorescein staining score and VAS eye dryness score | | |
| Efficacy Results | <p>Perfluorhexyloctane (N=286)</p> <ul style="list-style-type: none"> ● Change from baseline to week 8 in tCFS score: -2.0 ● Change from baseline to week 8 in VAS dryness score: -27.4 | <p>Saline solution (N=279)</p> <ul style="list-style-type: none"> ● Change from baseline to week 8 in tCFS score: -1.0 ● Change from baseline to week 8 in VAS dryness score: -19.7 | <p>Difference (95% CI) P-value</p> <ul style="list-style-type: none"> ● tCFS score difference: -7.6 (-11.8, -3.4) <ul style="list-style-type: none"> ○ P <0.001 ● VAS dryness difference: -0.97 (-1.40, -0.55) <ul style="list-style-type: none"> ○ P <0.001 |
| Safety Results | <ul style="list-style-type: none"> ● ≥ 1 ocular AE: 9.6% vs. 7.5% ● Conjunctival hemorrhage: 0.3% vs. 1.4% | <ul style="list-style-type: none"> ● Blurred vision: 3.0% vs. 0.3% ● Eye discharge: 1.0% vs. 0% | <ul style="list-style-type: none"> ● Instillation site pain: 1.0% vs. 1.0% |
| Additional Trials | NCT06176651 (recruiting), NCT05723770 (not yet recruiting), 7 completed | | |



Xacduro®

subactam and durlobactam

| | |
|--|--|
| Approval Date | 5/23/2023 Type 1 - New Molecular Entity and Type 4 - New Combination, PRIORITY |
| Indication | Hospital acquired or ventilator associated pneumonia |
| Class | Antibiotic, beta-lactam; beta-lactamase inhibitor |
| Mechanism of Action | The subactam binds to penicillin binding proteins 1 and 3 which inhibit bacterial cell wall synthesis and the durlobactam protects subactam from degrading by serine beta lactamases. |
| Common Adverse Events (>10%) | Abnormal hepatic function tests (19%), diarrhea (17%), anemia (13%), hypokalemia (12%) |
| Dosage Forms | IV solution |
| Clinical Pearls | <ul style="list-style-type: none">• Only indicated for <i>Acinetobacter baumannii-calcoaceticus</i>• Reconstituted prior to administration; compatible with 0.9% NaCl• Stored refrigerated• Administered every 6 hours; infused over 3 hours; 7-14 days of therapy• For altered renal function, dosage adjustments (frequency) begin at ≤ 44 mL/minute• Sound-alike/look-alike issues with ampicillin and subactam• DDI with OAT1 inhibitors |
| Cost (WAC) | 3 x (500 mg durlobactam; 1 gm subactam) vials of IV solution, \$475.00 |

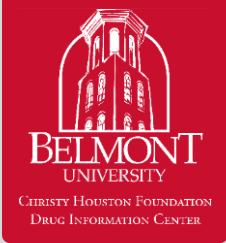
Subactam and durlobactam. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated October 17, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Xacduro. Package insert. LaJolla Pharmaceutical Company; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

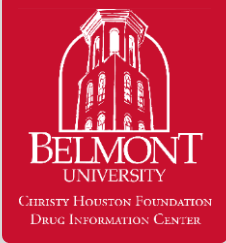
Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

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Xacduro[®]: Clinical Trials

| | | | |
|--------------------------|---|--|------------------------|
| Study | Kaye KS, Shorr AF, Wunderink RG, et al. Efficacy and safety of sulbactam-durlobactam versus colistin for the treatment of patients with serious infections caused by <i>Acinetobacter baumannii-calcoaceticus</i> complex: a multicentre, randomised, active-controlled, phase 3, non-inferiority clinical trial (ATTACK). <i>Lancet Infect Dis.</i> 2023;23(9):1072-1084. doi: 10.1016/S1473-3099(23)00184-6 | | |
| Study Objective | “Evaluate the efficacy and safety of sulbactam-durlobactam compared with colistin, both in combination with imipenem-cilastatin as background therapy, for the treatment of patients with serious infections caused by ABC, including carbapenem-resistant ABC.” | | |
| Study Design | Phase 3, multinational, randomised, active-controlled, non-inferiority trial | | |
| Study Subjects | Adults with hospital-acquired bacterial pneumonia, ventilator-associated bacterial pneumonia, ventilated pneumonia, or bloodstream infections caused by ABC | | |
| Intervention | Randomised 1:1 to receive sulbactam-durlobactam plus imipenem-cilastatin OR colistin plus imipenem-cilastatin for 7-14 days | | |
| Primary Endpoint | 28 day all-cause mortality | | |
| Efficacy Results | Sulbactam-durlobactam (N= 63) | Colistin (N=62) | Difference, % (95% CI) |
| | <ul style="list-style-type: none"> ● 28-day ACM: 12 (19.0%) | <ul style="list-style-type: none"> ● 28-day ACM: 20 (32.3%) | -13.2% (-30.0 to 3.5) |
| Safety Results | <ul style="list-style-type: none"> ● Hypersensitivity reaction (16% vs 12%) ● Emergent infection (19% vs 29%) | <ul style="list-style-type: none"> ● <i>C. diff</i> (1% vs 7%) ● AEs leading to discontinuation (11% vs 16%) | |
| Additional Trials | N/A | | |



Inpefa®

sotagliflozin (SOE-ta-gli-FLOE-zin)

| | |
|--|---|
| Approval Date | 5/26/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Cardiovascular risk reduction and heart failure |
| Class | SGLT1 inhibitor; SGLT2 inhibitor |
| Mechanism of Action | While the mechanism for cardiovascular benefits have not been established, the SGLT1 inhibition reduces glucose and sodium intestinal reabsorption and the SGLT2 inhibition reduces glucose and sodium renal reabsorption which may decrease cardiac preload/afterload and downregulate sympathetic activity. |
| Common Adverse Events (>10%) | UTI (9-12%) |
| Dosage Forms | Tablet; 200 mg and 400 mg |
| Clinical Pearls | <ul style="list-style-type: none">• If present, hypovolemia should be corrected before initiating therapy• Administer at least 1 hour before first meal of the day• On the Beers Criteria, caution in patients ≥65 year old• DDI with digoxin - monitor digoxin levels |
| Cost (WAC) | 30 count of 400 mg tablets, \$598.00; 30 count of 200 mg tablets, \$598.00 |

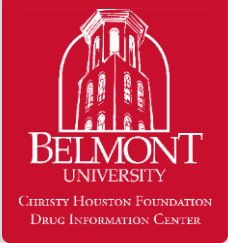
Sotagliflozin. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated December 5, 2023. Accessed January 30, 2024. <https://online.lexi.com>

Inpefa. Package insert. Lexicon Pharmaceuticals, Inc.; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

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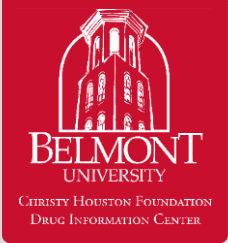
Inpefa[®]: Clinical Trials

| | | | |
|--------------------------|---|--|--|
| Study | Bhatt DL, Szarek M, Steg PG, et al. Sotagliflozin in patients with diabetes and recent worsening heart failure. <i>N Engl J Med.</i> 2021;384(2): 117-128. doi: 10.1056/NEJMoa2030183 | | |
| Study Objective | To determine “whether sotagliflozin would reduce the risks of death from cardiovascular causes, hospitalization for heart failure, and an urgent visit for heart failure among patients with diabetes mellitus and recent worsening of HFpEF or HFrEF when administered soon after a HF episode.” | | |
| Study Design | Phase 3, double-blind, randomized, placebo-controlled trial | | |
| Study Subjects | Adults with T2DM hospitalized with present symptoms of heart failure and received treatment with IV diuretic therapy | | |
| Intervention | Randomized to receive either sotagliflozin 200 mg PO once daily (dose increase to 400 mg if tolerated) or placebo | | |
| Primary Endpoint | Deaths from cardiovascular causes and hospitalizations and urgent visits for heart failure | | |
| Efficacy Results | Sotagliflozin (N = 608) | Placebo (N = 355) | Hazard ratio (95% CI) |
| | <ul style="list-style-type: none"> • 245 (51.0%) | <ul style="list-style-type: none"> • 355 (76.3%) | 0.67 (0.52 - 0.85) |
| Safety Results | <ul style="list-style-type: none"> • Cardiac failure (18.5% vs 26.4%) | <ul style="list-style-type: none"> • TEAE leading to discontinuation (4.8% vs 3.8%) | <ul style="list-style-type: none"> • UTI (4.8% vs 5.1%) |
| Additional Trials | SCORED Study (NCT03315143) | | |

Inpefa. Package insert. Lexicon Pharmaceuticals, Inc.; 2023.

Bhatt DL, Szarek M, Steg PG, et al. Sotagliflozin in patients with diabetes and recent worsening heart failure. *N Engl J Med.* 2021;384(2): 117-128. doi: 10.1056/NEJMoa2030183

FROM HERE TO ANYWHERE



Beyfortus[®]

nirsevimab-alip (nir-SEV-i-mab)

| | |
|-----------------------------|---|
| Approval Date | 7/17/2023 N/A |
| Indication | RSV prevention |
| Class | Immune globulin; monoclonal antibody |
| Mechanism of Action | RSV F protein directed fusion inhibitor, a human immunoglobulin kappa monoclonal antibody that has anti respiratory syncytial virus activity which provides passive immunization for RSV |
| Common Adverse Events (<1%) | Skin rash (0.9%), injection-site reaction (0.3%) |
| Dosage Forms | IM injection solution |
| Clinical Pearls | <ul style="list-style-type: none">● Neonates/infants entering first RSV season; children up to 24 months vulnerable to RSV through second RSV season● As of October 2023, the CDC warns that Beyfortus[®] is in a limited supply● After removal from refrigeration, medication must be used within 8 hours |
| Cost (WAC) | 1 mL of 100 mg/1 mL IM solution, \$495.00; 5x (1 mL) syringes of 100 mg/1 mL IM solution, \$2,475.00; 5x (0.5 mL) syringes of 50 mg/0.5 mL IM solution, \$2,475.00; 0.5 mL of 50 mg/0.5 mL IM solution, \$495.00 |

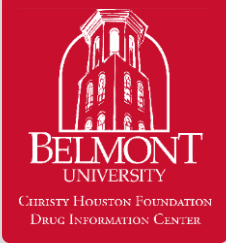
Nirsevimab. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated January 2, 2024. Accessed January 30, 2024. <https://online.lexi.com>

Beyfortus. Package insert. Sanofi Pasteur Inc.; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

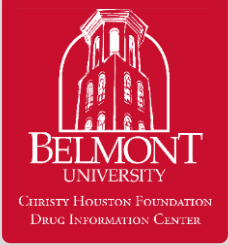
FROM HERE TO ANYWHERE



Beyfortus[®]: Clinical Trials

| | | | |
|--------------------------|--|-------------------|---------------------|
| Study | Hammitt LL, Dagan R, Yuan Y, et al. Nirsevimab for prevention of RSV in healthy late-preterm and term infants. <i>N Engl J Med.</i> 2022;386(9): 837-846. doi: 10.1056/NEJMoa2110275 | | |
| Study Objective | “Evaluate the efficacy and safety of nirsevimab in healthy late-preterm and term infants entering their first RSV season” | | |
| Study Design | Phase 3, multicenter, randomized, placebo-controlled trial | | |
| Study Subjects | Healthy infants born at gestational age (35 weeks 0 days), ≤ 1 year of age, entering their first RSV season | | |
| Intervention | Randomized 2:1 to receive either nirsevimab IM once (50 mg <5 kg or 100 mg ≥5 kg) or placebo | | |
| Primary Endpoint | Medically attended RSV-associated lower respiratory tract infection through 150 days after the injection | | |
| Efficacy Results | Nirsevimab (N = 994) | Placebo (N = 496) | Efficacy* (95% CI) |
| | ● 12 (1.2%) | ● 25 (5.0%) | 74.5 (49.6 to 87.1) |
| Safety Results | <ul style="list-style-type: none"> ● Pyrexia (12.7% vs 11.0%) ● Nasal Congestion (12.1% vs 13.6%) | | |
| Additional Trials | NCT02878330; NCT03959488 | | |

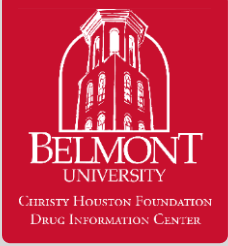
*Defined as the calculated relative risk reduction



Assessment Question #2

What is the available dosage form of Beyfortus (nirsevimab-alip)?

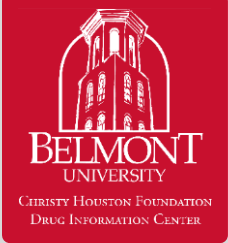
- A. Intra Articular Injection solution
- B. Intramuscular injection solution
- C. Intravenous solution
- D. Intranasal spray



Assessment Question #2: Correct Response

What is the available dosage form of Beyfortus (nirsevimab-alip)?

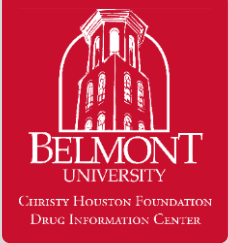
- A. Intra Articular Injection solution
- B. Intramuscular injection solution**
- C. Intravenous solution
- D. Intranasal spray



Zurzuvae®

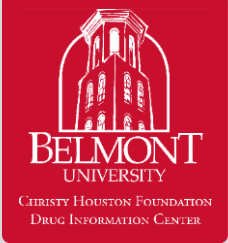
zuranolone (zoo-RAN-oh-lone)

| | |
|--|--|
| Approval Date | 8/4/2023 Type 1 - New Molecular Entity, PRIORITY |
| Indication | Treatment of postpartum depression in adults |
| Class | Antidepressant; GABA A receptor positive modulator |
| Mechanism of Action | While the mechanism of action is not completely understood, it is thought to be due to positive allosteric modulation of GABA A receptors |
| Common Adverse Events (>10%) | Diarrhea (6%), UTI (5%), fatigue (5%;including asthenia), memory impairment (3%), abdominal pain (3%), skin rash (2%), anxiety (2%), temor (2%), muscle twitching (2%), myalgia (2%) |
| Dosage Forms | Capsule |
| Clinical Pearls | <ul style="list-style-type: none">• May cause impaired driving, advise patients not to drive until atleast 12 hours after administration• Major psychiatric warning; increased risk of suicidal thinking and behavior• Medication has abuse potential, as such is a schedule C-IV medication• Administer with fat-containing food, in the evening for 14 days• Dose adjusted in hepatic and renal impairment• DDI with CYP3A4 inhibitors (dose adjust) and inducers (avoid) |
| Cost (WAC) | 14 count of the 20 mg capsules, \$7,950.00; 28 count of the 25 mg capsules, \$15,900; 14 count of the 30 mg capsules, \$15,900 |



Zurzuvae[®]: Clinical Trials

| | | | |
|--------------------------|---|--|--|
| Study | Deligiannidia KM, Meltzer-Brody S, Gunduz-Bruce H, et al. Effect of zuranolone vs placebo in postpartum depression: a randomized clinical trial. <i>JAMA Psychiatry</i> . 2021;78(9):951-959. doi: 10.1001/jamapsychiatry.2021.1559 | | |
| Study Objective | “Compare the efficacy and safety of zuranolone vs placebo in the outpatient treatment of adult women with PPD” | | |
| Study Design | Phase 3, double-blind, randomized, placebo-controlled clinical trial | | |
| Study Subjects | Adult females, 18-45 years old, 6 months or less postpartum with major depressive episode without psychosis | | |
| Intervention | Randomized 1:1 to receive either zuranolone 30 mg PO once in the evening or placebo for 2 weeks | | |
| Primary Endpoint | Change from baseline in HAMD-17 total score (0 to > 24) at day 15 | | |
| Efficacy Results | Zuranolone (N=76) | Placebo (N=74) | Difference (95% CI) |
| | <ul style="list-style-type: none"> -17.8 points | <ul style="list-style-type: none"> -13.6 points | -4.2 (-6.9 to -1.5) |
| Safety Results | <ul style="list-style-type: none"> Somnolence (15% vs 11%) | <ul style="list-style-type: none"> Headache (9% vs 12%) | <ul style="list-style-type: none"> Dizziness (8% vs 6%) |
| Additional Trials | NCT04442503 | | |



Exxua[®]

gepirone

| | |
|------------------------------|--|
| Approval Date | 9/22/2023 Type 1 - New Molecular Entity, STANDARD |
| Indication | Treatment of unipolar major depressive disorder in adults |
| Class | Antidepressant, serotonin 5-HT _{1A} receptor agonist |
| Mechanism of Action | While the mechanism of action is not fully understood, it is thought to be related to major metabolite activity at the alpha-2 receptor and the modulation serotonergic activity in the CNS by the parent drug. |
| Common Adverse Events (>10%) | Dizziness (49%), nausea (35%), headache (31%), drowsiness (≤15%), fatigue (≤15%), insomnia (14%) |
| Dosage Forms | Extended-release tablet |
| Clinical Pearls | <ul style="list-style-type: none">• Can prolong the QTc interval; perform an ECG at baseline and during therapy; do not initiate if QTc > 450 msec• Major psychiatric warning; increased risk of suicidal thinking and behavior• High fat meals around 850 calories increase the peak plasma concentration• Titratable depending on response and tolerability• Dose-adjust by 50% when given with a moderate CYP3A4 inhibitor• 14 day washout period with MAOI• Increased risk of serotonin syndrome when administered with other serotonergic agents |
| Cost (WAC) | Unavailable |

Gepirone. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated January 23, 2024. Accessed January 30, 2024. <https://online.lexi.com>

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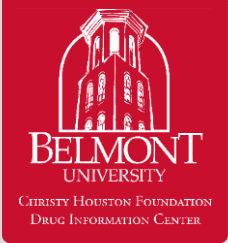
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Exxua[®]: Clinical Trials

| | | | |
|--------------------------|---|---|---|
| Study | "Study 1" - per Package Insert | | |
| Study Objective | Evaluate the efficacy of gepirone for the treatment of major depressive disorder in adults | | |
| Study Design | Eight-week, randomized, double-blind, placebo-controlled, flexible-dose study | | |
| Study Subjects | Adults who met DSM-IV diagnostic criteria for MDD | | |
| Intervention | Received either 18.2 mg gepirone PO once daily (*titrated) or placebo once daily for 8 weeks | | |
| Primary Endpoint | Change from baseline in the HAMD-17 total score at week 8 | | |
| Efficacy Results | Gepirone (N = 101) | Placebo (N = 103) | Difference (95% CI) |
| | <ul style="list-style-type: none"> ● Mean baseline score: 22.7 ● Mean change from baseline (SE): -9.04 (0.78) | <ul style="list-style-type: none"> ● Mean baseline score: 22.8 ● Mean change from baseline (SE): -6.75 (0.77) | -2.47 (-4.41 to -0.53) |
| Safety Results | <ul style="list-style-type: none"> ● Dizziness (49% vs 10%) ● Sleepy or tired (15% vs 14%) | <ul style="list-style-type: none"> ● Nausea (35% vs 13%) ● Insomnia (14% vs 5%) | <ul style="list-style-type: none"> ● Headache (31% vs 20%) |
| Additional Trials | "Study 2" - per Package Insert | | |

*18.2 mg once daily, titrated to 36.3 mg (17%) on day 4, could then be further titrated to 54.5 mg (20%) after day 7, and to 72.6 mg (64%) after an additional 7 days.



Omvoh®

mirikizumab-mrzk (MIR-i-KIZ-ue-mab)

| | |
|--|---|
| Approval Date | 10/26/2023 N/A; Orphan |
| Indication | Treatment of moderate to severe acute ulcerative colitis in adults |
| Class | IL-23 inhibitor; monoclonal antibody |
| Mechanism of Action | Inhibits the release of proinflammatory chemokines and cytokines by inhibiting the interaction between the p19 subunit of human IL-23 cytokine |
| Common Adverse Events (>10%) | Infection (15-24%), URTI (8-14%) |
| Dosage Forms | IV solution for induction phase; SubQ injection solution for maintenance phase |
| Clinical Pearls | <ul style="list-style-type: none">● Patients with untreated, active infections should not start or continue treatment● Prior to initiation: evaluate for TB, obtain liver enzyme levels, and receive all up to date immunizations● Administer over at least 30 minutes● Induction: 300 mg at weeks 0, 4, and 8● Maintenance: 200 mg (2 100 mg infections) at week 12, and every 4 weeks thereafter● Monitor for hepatotoxicity |
| Cost (WAC) | 15 mL of the 20 mg/1 mL IV solution \$9,593.22; 2x (1 mL) syringes of the 100 mg/1 mL SUBQ solution \$10,360.67 |

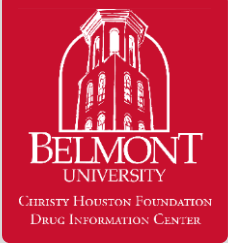
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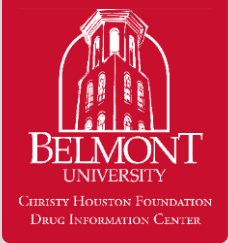
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FROM HERE TO ANYWHERE



Omvo^h®: Clinical Trials

| | | | |
|--------------------------|---|--|---------------------|
| Study | NCT03518086 | | |
| Study Objective | Evaluate the safety and efficacy of Omvoh | | |
| Study Design | Randomized, double-blind, placebo-controlled clinical trial | | |
| Study Subjects | Adults with moderately to severely active ulcerative colitis who had inadequate response, loss of response, or failed to tolerate any of the following: corticosteroids, 6-mercaptopurine, azathioprine, biologic therapy (TNF blocker, vedolizumab), or tofacitinib. | | |
| Intervention | Randomized 3:1 to receive Omvoh 300 mg IV or placebo at week 0, week 4, and week 8 | | |
| Primary Endpoint | Clinical remission at week 12 based on the modified Mayo score (0-9) | | |
| Efficacy Results | Omvo ^h (N = 795) | Placebo (N = 267) | Difference (95% CI) |
| | <ul style="list-style-type: none"> • 191 (24%) | <ul style="list-style-type: none"> • 41 (15%) | 10 % (5.0 to 10.0) |
| Safety Results | <ul style="list-style-type: none"> • URTI (8% vs 6%) • Arthralgia (2% vs 1%) | | |
| Additional Trials | NCT03524092 (maintenance phase) | | |



Defencath[®]

taurolidine and heparin

| | |
|--------------------------------------|--|
| Approval Date | 11/15/2023 Type 1 - New Molecular Entity and Type 4 - New Combination, PRIORITY |
| Indication | Prevention of catheter related bloodstream infections (only in patients with kidney failure on chronic hemodialysis with a central venous catheter) |
| Class | Antibiotic; anticoagulant |
| Mechanism of Action | Taurolidine acts as the antibiotic and inhibits adherence of microorganisms to biological surfaces by damaging the microbial cell walls. Heparin acts as the anticoagulant and prevents the conversion of fibrinogen to fibrin by inactivating thrombin through the process of potentiating the action of antithrombin III. |
| Common Adverse Events (1-10%) | Nausea (7%), hemorrhage (7%), vomiting (6%), dizziness (6%), musculoskeletal chest pain (3%), thrombocytopenia (2%) |
| Dosage Forms | Intracatheter solution |
| Clinical Pearls | <ul style="list-style-type: none">● Instillation into CVCs only● Not intended for systemic administration● Contraindicated with a history of HIT |
| Cost (WAC) | Unavailable |

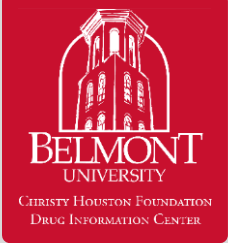
Taurolidine and heparin. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated January 23, 2024. Accessed January 30, 2024. <https://online.lexi.com>

Defencath. Package insert. CorMedix Inc.; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

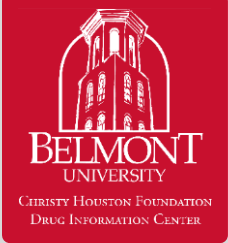
Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

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Defencath[®]: Clinical Trials

| | | | |
|--------------------------|---|---|--|
| Study | Agarwal AK, Roy-Chaudhury P, Mounts P, Hurlburt E, Pfaffle A, Poggio EC. Taurolidine/heparin lock solution and catheter-related bloodstream infection in hemodialysis: a randomized, double-blind, active-control, phase 3 study. <i>CJASN</i> . 18(11);2023:1446-1455. doi: 10.2215/CJN.0000000000000278 | | |
| Study Objective | “Evaluate the efficacy and safety of taurolidine/heparin catheter lock solution compared with heparin control for the prevention of CRBSIs in participants with kidney failure receiving hemodialysis via CVC” | | |
| Study Design | Randomized, double-blind, active-control, multicenter, phase 3 study | | |
| Study Subjects | Adults undergoing hemodialysis ≥ 2 times per week with catheters in place for ≥ 14 days | | |
| Intervention | Randomized 1:1 to receive either taurolidine/heparin 13.5 mg/mL/1000 units/mL lock solution or heparin 1000 units/mL lock solution | | |
| Primary Endpoint | Time to CRBSI | | |
| Efficacy Results | Taurolidine/heparin (N = 327) | Heparin (N = 326) | Hazard ratio (95% CI) |
| | <ul style="list-style-type: none"> Participants with CRBSI at interim: 6 (2%) | <ul style="list-style-type: none"> Participants with CRBSI at interim: 22 (7%) | 0.28 (0.11 to 0.70) |
| Safety Results | <ul style="list-style-type: none"> Hemodialysis catheter malfunction (17% vs 12%) | <ul style="list-style-type: none"> Hemorrhage/bleeding (7% vs 9%) | <ul style="list-style-type: none"> Nausea (7% vs 11%) |
| Additional Trials | N/A | | |



Ryzneuta®

efbemalenograstim alfa-vuxw

| | |
|--|---|
| Approval Date | 11/16/2023 N/A |
| Indication | Prevention of chemotherapy induced neutropenia in patients with nonmyeloid malignancies |
| Class | Colony stimulating factor; hematopoietic agent |
| Mechanism of Action | A colony stimulating factor that stimulates proliferation, differentiation, commitment, and end cell functional activation by binding to specific receptors on hematopoietic cells. |
| Common Adverse Events (>10%) | Nausea (51%), anemia (15%), thrombocytopenia (11%-12%) |
| Dosage Forms | SubQ injection |
| Clinical Pearls | <ul style="list-style-type: none">● Do not use within 14 days before or less than 24 hours after cytotoxic chemotherapy● May interfere with bone imaging studies● Monitor CBC and platelets during therapy● Contraindicated in those with a history of serious allergic reactions to granulocyte stimulating factors |
| Cost (WAC) | Unavailable |

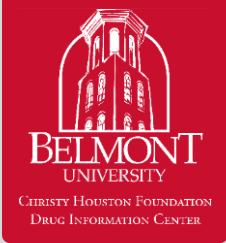
Efbemalenograstim alfa. Lexi-Drugs. Lexicomp. UpToDate, Inc.; 2024. Updated January 18, 2024. Accessed January 30, 2024. <https://online.lexi.com>

Ryzneuta. Package insert. Evive Biotechnology Singapore PTE. LTD.; 2023.

Drugs@FDA: FDA-approved drugs. US. Food & Drug Administration. Accessed January 30, 2024. <https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm>

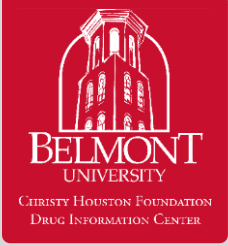
Merative Micromedex Red Book. Merative Micromedex. Merative; 2024. Accessed January 30, 2024. <https://www.micromedexsolutions.com/>

FROM HERE TO ANYWHERE



Ryzneuta®: Clinical Trials

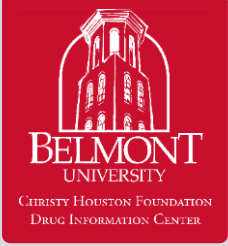
| | | | |
|--------------------------|---|---|---|
| Study | Glaspy J, Bondarenko I, Burdaeva O, et al. Efbemalenograstim alfa, an Fc fusion protein, long-acting granulocyte-colony stimulating factor for reducing the risk of febrile neutropenia following chemotherapy: results of a phase III trial. <i>Support Care Cancer</i> . 2024;32(1): 1-9. doi: 10.1007/s00520-023-08176-6 | | |
| Study Objective | "Evaluate the efficacy and safety of a single fixed dose of efbemalenograstim alfa in reducing the risk for FN in breast cancer patients receiving myelosuppressive chemotherapy" | | |
| Study Design | Phase 3, multicenter, randomized, double-clind, placebo-controlled study | | |
| Study Subjects | Females between 18-75 years diagnosed with stage II-IV breast cancer in the adjuvant or metastatic setting with an ECOG performance status ≤ 2 and were scheduled for myelotoxic TA regimen | | |
| Intervention | Randomized 2:1 to receive either a single 20 mg dose of efbemalenograstim alfa or placebo on day 2 of cycle 1 | | |
| Primary Endpoint | DSN (number of days in which the subject had an ANC < 0.5 x 10 ⁹ /L in cycle 1) | | |
| Efficacy Results | efbemalenograstim alfa (N = 83) | Placebo (N = 39) | Difference (95% CI) |
| | <ul style="list-style-type: none"> Mean DSN: 1.3 days | <ul style="list-style-type: none"> Mean DSN: 3.9 days | 2.9 (2.3 to 3.4) |
| Safety Results | <ul style="list-style-type: none"> Neutropenia (65.1% vs 64.1%) | <ul style="list-style-type: none"> Nausea (50.6% vs 38.5%) | <ul style="list-style-type: none"> Leukopenia (45.8% vs 38.5%) |
| Additional Trials | NCT03252431 | | |



Assessment Question #3

What is the indication of zuranolone?

- A. Treatment of postpartum depression in adults
- B. Prevention of chemotherapy induced neutropenia in patients with nonmyeloid malignancies
- C. Treatment of moderate to severe acute ulcerative colitis in adults
- D. Treatment of unipolar major depressive disorder in adults



Assessment Question #3: Correct Response

What is the indication of zuranolone?

- A. Treatment of postpartum depression in adults**
- B. Prevention of chemotherapy induced neutropenia in patients with nonmyeloid malignancies
- C. Treatment of moderate to severe acute ulcerative colitis in adults
- D. Treatment of unipolar major depressive disorder in adults



CHRISTY HODSTON FOUNDATION
DRUG INFORMATION CENTER

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Thank you!



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