

Alabama Medicaid DUR Board Meeting Minutes Summary
July 26, 2023

Members Present: Kelli Littlejohn Newman, Marilyn Bulloch, Danielle Powell, Crystal Deas, Bernie Olin, Dan McConaghy, Mary Stallworth, Melinda Rowe

Also Present: Lori Thomas, Julie Jordan, Heather Vega, LaQwanda Eddings-Haygood, Jack Wanschek, Kimberly Graham, ACHN Pharmacists

Members Absent: Rachel Seaman, George Sutton

Call to Order: The DUR meeting was called to order by D. Powell at approximately 1:06 p.m.

Review and Adoption of Minutes: The minutes of the April 26, 2023, meeting were presented, and D. McConaghy made a motion to approve the minutes. C. Deas seconded the motion, and the motion was approved unanimously.

Prior Authorization and Overrides Update: L. Thomas began the Prior Authorization and Overrides Update with the Monthly Manual Prior Authorizations and Overrides Report for the month of January 2023. She reported 14,816 manual PAs and overrides. There were 22,635 total electronic requests for the month of January 2023. L. Thomas compared January 2022 to January 2023 and pointed out the increased volume. From the Prior Authorization and Override Response Time Ratio report for January 2023, L. Thomas reported that approximately 1% of all manual PAs and 1% of all overrides were completed in less than two hours, but a total of 77% of all PAs were completed in under 2 hours (including electronic PA transactions). Nine percent of all manual PAs and overrides were completed in less than four hours. Forty-seven percent of all manual PAs and 48% of all overrides were completed in less than eight hours. L. Thomas reminded the Board Members that 75% of all PAs and overrides must be completed in under 8 hours. For the month of February 2023, L. Thomas reported 14,613 manual PA requests and 20,957 electronic PA requests were received. She reported that 1% of all manual PAs and of all overrides were completed in less than two hours. Seventy-six percent of all prior authorizations were completed in less than two hours. Five percent of all manual PAs and of all overrides were completed in less than four hours. Thirty-eight percent of all manual PAs and of all overrides were completed in less than eight hours. For the month of March 2023, L. Thomas reported 17,144 manual PA requests and 22,309 electronic PA requests. L. Thomas reported that approximately 1% of all manual PAs and of all overrides were completed in less than two hours. Seventy-six percent of all prior authorizations were completed in less than two hours. Eight percent of all manual PA requests and 5% of all overrides were completed in less than four hours. Forty percent of all manual PAs and of all overrides were completed in less than eight hours.

Program Summary Review: L. Thomas briefly reviewed the Alabama Medicaid Program Summary for the months of October 2022 through March 31, 2023. She reported 254,936 average recipients per month using pharmacy benefits, and an average paid per prescription of \$141.68.

Cost Management Analysis: L. Thomas reported an average cost per claim of \$145.45 for March 2023 and compared previous months contained in the table. From the 1st Quarter Drug Analysis, L. Thomas reported 84% generic utilization, 8% brand single-source, 4% brand multi-source (those requests which required a DAW override), and 4% OTC and "other". From the Top 25 Drugs Based on Number of Claims from 01/01/2023 – 03/31/2023, L. Thomas reported the top five drugs: amoxicillin, albuterol sulfate HFA, cetirizine, azithromycin, and fluticasone propionate. L. Thomas then reported the top five drugs from the Top 25 Drugs Based on Claims Cost from 01/01/2023 – 03/31/2023: Humira[®] Citrate-free Pen, Vyvanse[®], Trikafta[®], Invega Sustenna[®], and Trulicity[®]. From the Top 15 Therapeutic Classes by Total Cost of Claims for the same time frame, L. Thomas reported the top five classes: Antipsychotic Agents,

Disease-modifying Antirheumatic Agents, Skin and Mucous Membrane Agents, Amphetamines, and Antineoplastic Agents.

RDUR Intervention Report: L. Thomas presented the RDUR Activity Report for July 2022. She reported 500 profiles reviewed and 840 letters sent with 62 responses received as of the date of the report. She reported 30 of 46 physicians indicated that they found the RDUR letters “useful” or “extremely useful”. The criteria for the cycle of intervention letters included Drug-Drug Interaction (Support Act criteria – pure opioid agonists and benzodiazepines); Drug-Drug Interaction (Support Act criteria – pure opioid agonists and antipsychotics); Therapeutic Appropriateness (appropriate use of immediate-release opioids).

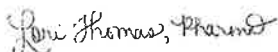
Proposed Criteria: L. Thomas presented the proposed set of 42 criteria to the Board and instructed the Board members to mark their ballots. Of the 42 proposed criteria, results from the criteria vote returned 38 approved and 4 approved as amended.

Medicaid Update: K. Newman reminded the Board members that all updated Medicaid drug lists and ALERTs were provided to them electronically and are also available online. L. Eddings-Haygood reminded the Board members that every July the Board votes on a Vice Chair. Ballots were distributed and members were asked to mark their ballots and pass them to the front. Results of the vote elected D. Powell as Vice Chair. The current Vice Chair, C. Deas, will begin her term as Chairman of the Board beginning with the October 2023 meeting.

P & T Committee Update: K. Newman began the P & T Update by informing the Board that the last P & T meeting was held on May 3, 2023, and covered the wakefulness promoting agents; anti-infectives; and cerebral stimulants. The next meeting is scheduled for August 2, 2023, and will cover the remaining anti-infective agents.

Next Meeting Date: D. Powell reminded the Board that the next DUR meeting will be held on October 25, 2023. A motion to adjourn the meeting was made by C. Deas and M. Bulloch seconded the motion. The meeting was adjourned at 1:58 p.m.

Respectfully submitted,



Lori Thomas, PharmD.

**ALABAMA MEDICAID
RETROSPECTIVE DRUG UTILIZATION REVIEW
CRITERIA RECOMMENDATIONS**

Criteria Recommendations

**Accepted Approved Rejected
As
Amended**

1. Belumosudil / Overuse

____v____

Alert Message: Rezurock (belumosudil) may be over-utilized. The recommended dose of belumosudil is 200 mg given orally once daily until the progression of chronic GVHD requires new systemic therapy.

Drugs/Diseases

Util A

Util B

Util C (Negating)

Belumosudil

Strong CYP3A4 Inducers

Proton Pump Inhibitors

Max Dose: 200 mg/day

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.

Rezurock Prescribing Information, Kadmon Pharmaceuticals, LLC.

2. Belumosudil / Therapeutic Appropriateness

____v____

Alert Message: The safety and effectiveness of Rezurock (belumosudil) in pediatric patients less than 12 years old have not been established.

Drugs/Diseases

Util A

Util B

Util C

Belumosudil

Age Range: 0 – 11 yoa

References:

Clinical Pharmacology, 2021 Elsevier/Gold Standard.

Rezurock Prescribing Information, Kadmon Pharmaceuticals, LLC.

3. Belumosudil / Strong CYP3A4 Inducers

 v

Alert Message: Coadministration of Rezero (belumosudil) with strong CYP3A4 inducers decreases belumosudil exposure, which may reduce the efficacy of belumosudil. If concurrent therapy is warranted, increase the dosage of belumosudil, a CYP3A4 substrate, to 200 mg twice daily when coadministered with strong CYP3A4 inducers.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Belumosudil | Apalutamide | Phenobarbital |
| | Carbamazepine | Phenytoin |
| | Enzalutamide | Primidone |
| | Mitotane | Rifampin |

References:

Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezero Prescribing Information, Kadmon Pharmaceuticals, LLC.

4. Belumosudil / Proton Pump Inhibitors

 v

Alert Message: Coadministration of Rezero (belumosudil) with a proton pump inhibitor decreases belumosudil exposure, which may reduce the efficacy of belumosudil. If concurrent therapy is warranted, increase the dosage of belumosudil to 200 mg twice daily when coadministered with a proton pump inhibitor.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|-----------------|---------------|
| Belumosudil | Dexlansoprazole | |
| | Esomeprazole | |
| | Lansoprazole | |
| | Omeprazole | |
| | Pantoprazole | |
| | Rabeprazole | |

Minimum Dose: 400 mg/day

References:

Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezero Prescribing Information, Kadmon Pharmaceuticals, LLC.

5. Belumosudil / Pregnancy / Pregnancy Negating

v _____

Alert Message: Based on findings in animals and its mechanism of action, Rezurock (belumosudil) can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of belumosudil to pregnant rats and rabbits during the period of organogenesis caused adverse developmental outcomes including embryofetal mortality and malformations at maternal exposures (AUC) less than those in patients at the recommended dose. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential and males with female partners of reproductive potential to use effective contraception during treatment with belumosudil and for at least one week after the last dose.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C (Negate)</u> |
|---------------|---------------|-------------------------------------|
| Belumosudil | Pregnancy | Abortion Delivery Miscarriage |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezurock Prescribing Information, Kadmon Pharmaceuticals, LLC.

6. Belumosudil / Therapeutic Appropriateness

v _____

Alert Message: There are no data available on the presence of Rezurock (belumosudil) or its metabolites in human milk, or the effects on the breastfed child, or milk production. Because of the potential for serious, adverse reactions from belumosudil in the breastfed child, advise lactating women not to breastfeed during treatment with belumosudil and for at least one week after the last dose.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Belumosudil | Lactation | |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezurock Prescribing Information, Kadmon Pharmaceuticals, LLC.

7. Belumosudil / Therapeutic Appropriateness

 v _____

Alert Message: Advise females of reproductive potential to use effective contraception during treatment with Rezero (belumosudil) and for at least one week after the last dose of belumosudil. If this drug is used during pregnancy or if the patient becomes pregnant while taking this drug, the patient should be informed of the potential hazard to a fetus.

Drugs/Diseases

Util A Util B Util C
Belumosudil

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezero Prescribing Information, Kadmon Pharmaceuticals, LLC.

8. Belumosudil / Therapeutic Appropriateness

 v _____

Alert Message: Advise males with partners of reproductive potential to use effective contraception during treatment with Rezero (belumosudil) and for at least one week after the last dose of belumosudil.

Drugs/Diseases

Util A Util B Util C
Belumosudil

Gender: Male

References:
Clinical Pharmacology, 2021 Elsevier/Gold Standard.
Rezero Prescribing Information, Kadmon Pharmaceuticals, LLC.

9. Belumosudil / Non-adherence

 v _____

Alert Message: Based on refill history, your patient may be under-utilizing Rezero (belumosudil). Nonadherence to the prescribed dosing regimen may result in sub-therapeutic effects, which may lead to decreased outcomes and additional healthcare costs.

Drugs/Diseases

Util A Util B Util C
Belumosudil

References:
Osterberg L, Blaschke T. Adherence to Medication. N Engl J Med. 2005;353:487-97.
Ruddy K, Mayer E, Partridge A. Patient Adherence and Persistence With Oral Anticancer Treatment. CA Cancer J Clin 2009;59:56-66.
Greer JA, Amoyal N, Nisotel L, et al. Systemic Review of Adherence to Oral Antineoplastic Therapies. The Oncologist. 2016;21:354-376.
Barillet M, Prevost V, Joly F, Clarisse B. Oral Antineoplastic Agents: How do We Care About Adherence? Br J Clin Pharmacol. 2015;80(6):1289-1302. doi:10.1111/bcp.1273

13. Benralizumab / Lactation

_____v_____

Alert Message: There is no information regarding the presence of Fasentra (benralizumab) in human or animal milk, and the effects of benralizumab on the breastfed infant and milk production are not known. However, benralizumab is a humanized monoclonal antibody (IgG1/κ-class), and immunoglobulin G (IgG) is present in human milk in small amounts. If benralizumab is transferred into human milk, the effects of local exposure in the gastrointestinal tract and potential limited systemic exposure in the infant to benralizumab are unknown. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for benralizumab and any potential adverse effects on the breast-fed child from benralizumab or the underlying maternal condition.

Drugs/Diseases

| | | |
|------------------|---------------|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Tezepelumab-ekko | Lactation | |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Fasentra Prescribing Information, June 2022, AstraZeneca.

14. Afatinib / Overuse

_____v_____

Alert Message: Gilotrif (afatinib) may be over-utilized. The recommended dosage of afatinib is 40 mg orally once daily until disease progression or no longer tolerated by the patient.

Drugs/Diseases

| | | |
|---------------|---------------|--------------------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C (Negating)</u> |
| Afatinib | | CKD Stage 4, 5, & ESRD |

Max Dose: 40 mg/day

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

18. Afatinib / Hepatic Impairment

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Alert Message: Hepatotoxicity has occurred in patients treated with Gilotrif (afatinib). Obtain periodic liver testing in patients during treatment with afatinib. Withhold afatinib in patients who develop worsening of liver function. In patients who develop severe hepatic impairment while taking afatinib, discontinue treatment.

Drugs/Diseases

| | | |
|---------------|--------------------|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Afatinib | Hepatic Impairment | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
 Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

19. Afatinib / Interstitial Lung Disease

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Alert Message: Gilotrif (afatinib) can cause interstitial lung disease (ILD) or ILD-like adverse reactions. Monitor the patient for new or worsening pulmonary symptoms indicative of ILD/pneumonitis (e.g., dyspnea, cough, fever). Withhold afatinib during evaluation of patients with suspected ILD and discontinue afatinib in patients with confirmed ILD and discontinue afatinib in patients with confirmed ILD.

Drugs/Diseases

| | | |
|---------------|---|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Afatinib | Cough Dyspnea Fever Acute Interstitial Pneumonia | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
 Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

20. Afatinib / Gastrointestinal Perforation

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Alert Message: Gastrointestinal perforation, including fatal cases, has occurred with Gilotrif (afatinib). Patients receiving concomitant corticosteroids, nonsteroidal anti-inflammatory drugs (NSAIDs) or anti-angiogenic agents, or patients with increasing age or who have an underlying history of gastrointestinal ulceration, underlying diverticular disease or bowel metastases may be at increased risk of perforation. Permanently discontinue afatinib in patients who develop gastrointestinal perforation.

Drugs/Diseases

| | | |
|---------------|--|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Afatinib | Diverticulitis GI Perforation Anti-Angiogenic Agents NSAIDS | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
 Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

21. Afatinib / Keratitis

 v _____

Alert Message: Keratitis has occurred in patients treated with Gilotrif (afatinib). Advise patients to immediately report eye problems (e.g., eye pain, swelling, redness, blurred vision, or other vision changes). Withhold afatinib during evaluation of patients with suspected keratitis, and if diagnosis of ulcerative keratitis is confirmed, interrupt or discontinue afatinib. If keratitis is diagnosed, the benefits and risks of continuing treatment should be carefully considered. Afatinib should be used with caution in patients with a history of keratitis, ulcerative keratitis, or severe dry eye. Contact lens use is also a risk factor for keratitis and ulceration.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------------|---------------|
| Afatinib | Keratitis | |
| | Visual Disturbances | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

22. Afatinib / P-gp Inhibitors

 v _____

Alert Message: The concurrent use of Gilotrif (afatinib), a P-gp substrate, with a P-gp inhibitor can result in increased afatinib exposure. Reduce the afatinib daily dose by 10 mg if not tolerated for patients who require therapy with a P-gp inhibitor. Resume the previous afatinib dose after discontinuation of the P-gp inhibitor as tolerated.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Afatinib | Amiodarone | |
| | Cyclosporine | |
| | Erythromycin | |
| | Itraconazole | |
| | Ketoconazole | |
| | Nelfinavir | |
| | Quinidine | |
| | Ritonavir | |
| | Saquinavir | |
| | Tacrolimus | |
| | Verapamil | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

23. Afatinib / P-gp Inducers

_____v_____

Alert Message: The concurrent use of Gilotrif (afatinib), a P-gp substrate, with a P-gp inducer can result in decreased afatinib exposure. Increase the afatinib daily dose by 10 mg as tolerated for patients who require chronic therapy with a P-gp inducer. Resume the previous afatinib dose 2 to 3 days after discontinuation of the P-gp inducer.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Afatinib | Apalutamide | |
| | Carbamazepine | |
| | Enzalutamide | |
| | Mitotane | |
| | Phenobarbital | |
| | Phenytoin | |
| | Primidone | |
| | Rifampin | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

24. Afatinib / Pregnancy / Pregnancy Negating

_____v_____

Alert Message: There are no available data on the use of Gilotrif (afatinib) in pregnant women. Based on findings from animal studies and its mechanism of action, afatinib can cause fetal harm when administered to a pregnant woman. Advise pregnant women and females of reproductive potential of the potential risk to a fetus.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C (Negate)</u> |
|---------------|---------------|------------------------|
| Afatinib | Pregnancy | Abortion |
| | | Delivery |
| | | Miscarriage |

Gender: Female

Age Range: 11 – 50 yoa

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

25. Afatinib / Therapeutic Appropriateness

 v

Alert Message: There are no data on the presence of Gilotrif (afatinib) in human milk or its effects on the breastfed infant or milk production. Afatinib was present in the milk of lactating rats. Because of the potential for serious adverse reactions in breastfed infants from afatinib, advise women not to breastfeed during treatment with afatinib and for 2 weeks after the final dose..

Drugs/Diseases

| | | |
|---------------|---------------|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Afatinib | Lactation | |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Facts & Comparisons, 2022 Updates, Wolters Kluwer Health.

26. Afatinib / Therapeutic Appropriateness

 v

Alert Message: Advise females of reproductive potential to use effective contraception during treatment and for at least 2 weeks after the last dose of Gilotrif (afatinib). Based on findings from animal studies and its mechanism of action, afatinib can cause fetal harm when administered to a pregnant woman.

Drugs/Diseases

| | | |
|---------------|---------------|-------------------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C (Include)</u> |
| Afatinib | | Contraceptives |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Gilotrif Prescribing Information, April 2022, Boehringer Ingelheim Pharmaceuticals, Inc.

27. Afatinib / Non-adherence

_____v_____

Alert Message: Based on refill history, your patient may be under-utilizing Gilotrif (afatinib). Non-adherence to the prescribed dosing regimen may result in sub-therapeutic effects, which may lead to decreased patient outcomes and additional healthcare costs.

Drugs/Diseases

Util AUtil BUtil C

Afatinib

References:

Osterberg L, Blaschke T. Adherence to Medication. N Engl J Med 2005; 353:487- 497.

Ruddy K, Mayer E, Partridge A. Patient Adherence and Persistence With Oral Anticancer Treatment. CA Cancer J Clin 2009;59:56-66.

Barillet M, Prevost V, Joly F, Clarisse B. Oral Antineoplastic Agents: How do We Care About Adherence? Br J Clin Pharmacol. 2015;80(6):1289-1302. doi:10.1111/bcp.1273

Greer JA, Amoyal N, Nisotel L, et al. Systemic Review of Adherence to Oral Antineoplastic Therapies. The Oncologist. 2016;21:354-376.

28. Mobocertinib / Overuse

_____v_____

Alert Message: Exkivity (mobocertinib) may be over-utilized. The recommended dosage of mobocertinib is 160 mg orally once daily until disease progression or unacceptable toxicity.

Drugs/Diseases

Util AUtil BUtil C

Mobocertinib

Max Dose: 160 mg/day

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.

Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

29. Mobocertinib / Therapeutic Appropriateness

_____v_____

Alert Message: The safety and effectiveness of Exkivity (mobocertinib) in pediatric patients have not been established.

Drugs/Diseases

Util AUtil BUtil C

Mobocertinib

Age Range: 0 – 17 yoa

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.

Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

30. Mobocertinib / Therapeutic Appropriateness (Black Box)

v _____

Alert Message: Exkivity (mobocertinib) can cause life-threatening heart rate-corrected QT (QTc) prolongation, including Torsades de Pointes, which can be fatal, and requires monitoring of QTc and electrolytes at baseline and periodically during treatment. Assess QTc and electrolytes at baseline and correct abnormalities in sodium, potassium, calcium, and magnesium before initiating mobocertinib. Monitor QTc and electrolytes periodically during treatment. Increase monitoring frequency in patients with risk factors for QTc prolongation, such as patients with congenital long QT syndrome, heart disease, or electrolyte abnormalities. Withhold, reduce the dose, or permanently discontinue mobocertinib based on the severity of QTc prolongation.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|-----------------|---------------|
| Mobocertinib | QT Prolongation | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

31. Mobocertinib / Strong CYP3A4 Inhibitors (Black Box)

v _____

Alert Message: Coadministration of Exkivity (mobocertinib) with a strong CYP3A4 inhibitor should be avoided. Mobocertinib is a CYP3A4 substrate, and concurrent use with a strong CYP3A4 inhibitor may significantly increase mobocertinib exposure and the risk of mobocertinib-related QT (QTc) prolongation.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|----------------|---------------|
| Mobocertinib | Clarithromycin | Nelfinavir |
| | Cobicistat | Posaconazole |
| | Darunavir | Ritonavir |
| | Indinavir | Saquinavir |
| | Itraconazole | Voriconazole |
| | Ketoconazole | |
| | Nefazodone | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

32. Mobocertinib / QT Prolonging Drugs (Black Box)

Alert Message: Exkivity (mobocertinib) can cause life-threatening heart rate-corrected QT (QTc) prolongation, including Torsades de Pointes, which can be fatal and requires monitoring of QTc and electrolytes at baseline and periodically during treatment. Avoid the use of concomitant drugs, which are known to prolong the QTc interval.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | | | <u>Util C</u> |
|---------------|------------------|--------------------|----------------|---------------|
| Mobocertinib | Abiraterone | Efavirenz | Levofloxacin | Rilpivirine |
| | Alfuzosin | Eliglustat | Lithium | Risperidone |
| | Amiodarone | Encorafenib | Lofexidine | Ritonavir |
| | Amitriptyline | Entrectinib | Loperamide | Romidepsin |
| | Anagrelide | Eribulin | Maprotiline | Saquinavir |
| | Aripiprazole | Erythromycin | Methadone | Sertraline |
| | Arsenic Trioxide | Escitalopram | Metoclopramide | Siponimod |
| | Asenapine | Ezogabine | Midostaurin | Solifenacin |
| | Atazanavir | Famotidine | Mifepristone | Sotalol |
| | Atomoxetine | Felbamate | Mirabegron | Sunitinib |
| | Azithromycin | Fingolimod | Mirtazapine | Tacrolimus |
| | Bedaquiline | Flecainide | Moexipril | Tamoxifen |
| | Bortezomib | Fluconazole | Moxifloxacin | Telavancin |
| | Bendamustine | Fluoxetine | Nelfinavir | Tetrabenazine |
| | Bosutinib | Fluvoxamine | Nilotinib | Thioridazine |
| | Buprenorphine | Foscarnet | Nortriptyline | Tizanidine |
| | Ceritinib | Galantamine | Ofloxacin | Tolterodine |
| | Chloroquine | Ganciclovir | Ondansetron | Toremifene |
| | Chlorpromazine | Gemifloxacin | Osimertinib | Tramadol |
| | Cilostazol | Gilteritinib | Oxaliplatin | Trazodone |
| | Ciprofloxacin | Glasdegib | Paliperidone | Trimipramine |
| | Citalopram | Granisetron | Panobinostat | Valbenazine |
| | Clarithromycin | Haloperidol | Paroxetine | Vandetanib |
| | Clomipramine | Hydroxychloroquine | Pasireotide | Vemurafenib |
| | Clozapine | Hydroxyzine | Pazopanib | Venlafaxine |
| | Crizotinib | Ibutilide | Pentamidine | Voriconazole |
| | Dabrafenib | Iloperidone | Pimavanserin | |
| | Dasatinib | Imipramine | Pimozide | |
| | Desipramine | Indapamide | Pitolisant | |
| | Deutetrabenazine | Indinavir | Posaconazole | |
| | Diphenhydramine | Ivabradine | Procainamide | |
| | Disopyramide | Itraconazole | Promethazine | |
| | Dofetilide | Ivosidenib | Propafenone | |
| | Dolasetron | Ketoconazole | Quetiapine | |
| | Donepezil | Lapatinib | Quinidine | |
| | Doxepin | Lefamulin | Quinine | |
| | Dronedarone | Lenvatinib | Ranolazine | |
| | Droperidol | Leuprolide | Ribociclib | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.

Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

33. Mobocertinib / Moderate CYP3A4 Inhibitors (Black Box)

_____v_____

Alert Message: Coadministration of Exkivity (mobocertinib) with a moderate CYP3A4 inhibitor should be avoided. Mobocertinib is a CYP3A4 substrate, and concurrent use with a CYP3A4 inhibitor may increase mobocertinib exposure and the risk of mobocertinib-related QT (QTc) prolongation. If concomitant use with a moderate CYP3A inhibitor cannot be avoided, reduce the mobocertinib dose by approximately 50% and monitor the QTc interval more frequently with ECGs. After the moderate CYP3A inhibitor has been discontinued for 3 to 5 elimination half-lives, resume mobocertinib at the dose taken before initiating the moderate CYP3A inhibitor.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | | <u>Util C</u> |
|---------------|---------------|--------------|---------------|
| Mobocertinib | Atazanavir | Diltiazem | Verapamil |
| | Aprepitant | Dronedarone | |
| | Cimetidine | Erythromycin | |
| | Ciprofloxacin | Fluconazole | |
| | Crizotinib | Fluvoxamine | |
| | Cyclosporine | Imatinib | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

34. Mobocertinib / Interstitial Lung Disease

_____v_____

Alert Message: Exkivity (mobocertinib) can cause ILD/pneumonitis, which can be fatal. Monitor patients for new or worsening pulmonary symptoms indicative of ILD/pneumonitis. Immediately withhold mobocertinib in patients with suspected ILD/pneumonitis (any grade) and permanently discontinue mobocertinib if ILD/pneumonitis is confirmed.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|------------------------------|---------------|
| Mobocertinib | Cough | |
| | Dyspnea | |
| | Fever | |
| | Acute Interstitial Pneumonia | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

35. Mobocertinib / Cardiac Toxicity

 v

Alert Message: Exkivity (mobocertinib) can cause cardiac toxicity (including decreased ejection fraction, cardiomyopathy, and congestive heart failure) resulting in heart failure, which can be fatal. Monitor cardiac function, including assessment of left ventricular ejection fraction at baseline and during treatment. Withhold, reduce the dose, or permanently discontinue mobocertinib based on the severity.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------------------------|---------------|
| Mobocertinib | Cardiomyopathy Heart Failure | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

36. Mobocertinib / Diarrhea

 v

Alert Message: Exkivity (mobocertinib) can cause diarrhea, which can be severe. In the pooled mobocertinib safety population, diarrhea occurred in 93% of patients. Diarrhea may lead to dehydration or electrolyte imbalance, with or without renal impairment. Treat diarrhea promptly. Advise patients to start an antidiarrheal agent (e.g., loperamide) at the first sign of diarrhea or increased bowel movement frequency and to increase fluid and electrolyte intake. Monitor electrolytes and withhold mobocertinib, reduce the dose or permanently discontinue mobocertinib based on the severity.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C (Negating)</u> |
|---------------|---------------|--------------------------|
| Mobocertinib | Diarrhea | Loperamide |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

37. Mobocertinib / Pregnancy / Pregnancy Negating

_____v_____

Alert Message: Based on findings from animal studies and its mechanism of action, Exkivity (mobocertinib) can cause fetal harm when administered to a pregnant woman. There are no available data on mobocertinib use in pregnant women. Oral administration of mobocertinib to pregnant rodents during the period of organogenesis resulted in embryolethality (embryo-fetal death) and maternal toxicity at plasma exposures approximately 1.7 times the human exposure based on AUC at the 160 mg once daily clinical dose. Advise pregnant women of the potential risk to a fetus.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C (Negate)</u> |
|---------------|---------------|-------------------------------------|
| Mobocertinib | Pregnancy | Abortion Delivery Miscarriage |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

38. Mobocertinib / Lactation

_____v_____

Alert Message: There are no data on the presence of Exkivity (mobocertinib) or its metabolites in human milk or their effects on the breastfed child or milk production. Because of the potential for serious adverse reactions in breastfed children, advise women not to breastfeed during treatment with mobocertinib and for 1 week after the last dose.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Mobocertinib | Lactation | |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

39. Mobocertinib / Therapeutic Appropriateness

 v

Alert Message: Advise females of reproductive potential to use effective non-hormonal contraception during treatment with Exkivity (mobocertinib) and for 1 month after the last dose. Mobocertinib may render hormonal contraceptives ineffective.

Drugs/Diseases

| | | |
|---------------|-------------------------|---------------|
| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
| Mobocertinib | Hormonal Contraceptives | |

Gender: Female
Age Range: 11 – 50 yoa

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

40. Mobocertinib / Sensitive CYP3A4 Substrates

 v

Alert Message: Coadministration of Exkivity (mobocertinib) with a CYP3A4 substrate may result in decreased plasma concentrations of the CYP3A4 substrate. Avoid concomitant use of mobocertinib with other CYP3A substrates where minimal concentration changes may lead to serious therapeutic failures. If concomitant use is unavoidable, increase the CYP3A substrate dosage in accordance with the approved product prescribing information.

Drugs/Diseases

| | | | | | |
|---------------|---------------|------------|-------------|-------------|---------------|
| <u>Util A</u> | <u>Util B</u> | | | | <u>Util C</u> |
| Mobocertinib | Avanafil | Eletriptan | Lurasidone | Simvastatin | Vardenafil |
| | Budesonide | Eplerenone | Maraviroc | Sirolimus | |
| | Buspirone | Everolimus | Midazolam | Tacrolimus | |
| | Conivaptan | Felodipine | Naloxegol | Ticagrelor | |
| | Darifenacin | Ibrutinib | Nisoldipine | Tipranavir | |
| | Darunavir | Lomitapide | Quetiapine | Tolvaptan | |
| | Dronedarone | Lovastatin | Sildenafil | Triazolam | |

References:
Clinical Pharmacology, 2022 Elsevier/Gold Standard.
Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

41. Mobocertinib / Strong & Moderate CYP3A4 Inducers

v

Alert Message: Coadministration of Exkivity (mobocertinib) with a strong or moderate CYP3A4 inducer should be avoided. Mobocertinib is a CYP3A4 substrate, and concurrent use with a strong or moderate CYP3A4 inducer may decrease mobocertinib exposure and reduce mobocertinib anti-tumor activity.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|--|---------------|
| Mobocertinib | Apalutamide Bosentan Carbamazepine Efavirenz Etravirine Phenobarbital Phenytoin Primidone Rifabutin Rifampin Rifapentine | |

References:

Clinical Pharmacology, 2022 Elsevier/Gold Standard.

Exkivity Prescribing Information, September 2021, Takeda Pharmaceuticals America.

42. Mobocertinib / Non-adherence

v

Alert Message: Based on refill history, your patient may be under-utilizing Exkivity (mobocertinib). Non-adherence to the prescribed dosing regimen may result in sub-therapeutic effects, which may lead to decreased patient outcomes and additional healthcare costs.

Drugs/Diseases

| <u>Util A</u> | <u>Util B</u> | <u>Util C</u> |
|---------------|---------------|---------------|
| Mobocertinib | | |




References:

Osterberg L, Blaschke T. Adherence to Medication. N Engl J Med 2005; 353:487- 497.

Ruddy K, Mayer E, Partridge A. Patient Adherence and Persistence With Oral Anticancer Treatment. CA Cancer J Clin 2009;59:56-66.

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Greer JA, Amoyal N, Nisotel L, et al. Systemic Review of Adherence to Oral Antineoplastic Therapies. The Oncologist. 2016;21:354-376.

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|---|---|-------------------------------|--------------------------|
|  _____ Stephanie McGee Azar, Commissioner | <input checked="" type="checkbox"/> Approve | <input type="checkbox"/> Deny | <u>8/24/23</u> Date |
|  _____ Melinda Rowe, MD, Medical Director | <input checked="" type="checkbox"/> Approve | <input type="checkbox"/> Deny | <u>8/23/2023</u> Date |
|  _____ Ginger Carmack, Deputy Commissioner | <input checked="" type="checkbox"/> Approve | <input type="checkbox"/> Deny | <u>8-24-23</u> Date |