

<b>Clinical Policy Title:</b>	cetuximab
<b>Policy Number:</b>	RxA.266
<b>Drug(s) Applied:</b>	Erbix®
<b>Original Policy Date:</b>	03/06/2020
<b>Last Review Date:</b>	09/14/2021
<b>Line of Business Policy Applies to:</b>	All line of business

## Background

Cetuximab (Erbix®) is an epidermal growth factor receptor (EGFR) antagonist, indicated for treatment of:

- Head and neck cancer (HNSCC)
  - Locally or regionally advanced squamous cell carcinoma of the head and neck in combination with radiation therapy.
  - Recurrent locoregional disease or metastatic squamous cell carcinoma of the head and neck in combination with platinum-based therapy with fluorouracil (5-FU).
  - Recurrent or metastatic squamous cell carcinoma of the head and neck progressing after platinum-based therapy.
- Colorectal cancer (CRC)
  - K-Ras wild-type, EGFR-expressing, metastatic CRC as determined by an FDA-approved test
    - in combination with FOLFIRI for first-line treatment.
    - in combination with irinotecan in patients who are refractory to irinotecan-based chemotherapy.
    - as a single agent in patients who have failed oxaliplatin- and irinotecan-based chemotherapy or who are intolerant to irinotecan.

Limitation(s) of use: Erbix® is not indicated for treatment of *Ras*-mutant CRC or when the results of the *Ras* mutation tests are unknown.

## Dosing Information

Drug Name	Indication	Dosing Regimen	Maximum Dose
cetuximab (Erbix®)	HNSCC, CRC	<p>Premedicate with an H<sub>1</sub> receptor antagonist.</p> <p><b><u>In combination with radiation therapy:</u></b>            Initial dose: 400 mg/m<sup>2</sup> administered as a 120-minute intravenous infusion one week prior to initiating a course of radiation therapy.            Subsequent doses: 250 mg/m<sup>2</sup> administered as a 60-minute infusion every week for the duration of radiation therapy (6–7 weeks).</p> <p>Complete Erbix® administration 1 hour prior to radiation therapy.</p> <p><b><u>As a single-agent or in combination with chemotherapy weekly:</u></b> Administer initial dose of 400</p>	<p>400 mg/ m<sup>2</sup> intravenously for the initial dose then 250 mg/ m<sup>2</sup> intravenously once weekly for subsequent doses; OR 500 mg/ m<sup>2</sup> intravenously every 2 weeks.</p>

This clinical policy has been developed to authorize, modify, or determine coverage for individuals with similar conditions. Specific care and treatment may vary depending on individual need and benefits covered by the plan. This policy is not intended to dictate to providers how to practice medicine, nor does it constitute a contract or guarantee regarding payment or results. This document may contain prescription brand name drugs that are trademarks of pharmaceutical manufacturers that are not affiliated with RxAdvance.

Dosing Information			
Drug Name	Indication	Dosing Regimen	Maximum Dose
		<p>mg/m<sup>2</sup> as a 120-minute intravenous infusion, and subsequent doses of 250 mg/m<sup>2</sup> infused over 60 minutes once weekly.</p> <p>Biweekly: Administer 500 mg/m<sup>2</sup> as a 120-minute intravenous infusion every two weeks.</p> <p>Complete Erbitux® administration 1 hour prior to chemotherapy. Continue treatment until disease progression or unacceptable toxicity.</p>	

**Dosage Forms**

- Single-dose vials: 100 mg/50 mL, 200 mg/100 mL.

**Clinical Policy**

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria. The provision of provider samples does not guarantee coverage under the terms of the pharmacy benefit administered by RxAdvance. All criteria for initial approval must be met in order to obtain coverage.

**I. Initial Approval Criteria**

**A. Head and Neck Squamous Cell Carcinoma (must meet all):**

1. Diagnosis of HNSCC (*see Appendix D for subtypes by location*);
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Disease is advanced, recurrent, or metastatic;
5. Request meets one of the following (a or b):\*
  - a. Dose does not exceed an initial dose of 400 mg/m<sup>2</sup> followed by 250 mg/m<sup>2</sup> weekly; OR 500 mg/ m<sup>2</sup> intravenously every 2 weeks thereafter;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 6 months

**Medicaid:** 6 months

**B. Colorectal Cancer (must meet all):**

1. Diagnosis of CRC;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Disease is KRAS or NRAS wild-type (i.e., not mutated);
5. One of the following (a, b, c, or d):
  - a. Request is for first-line treatment: Prescribed in combination with FOLFOX (off-label) or FOLFIRI;
  - b. Previous treatment with oxaliplatin- and irinotecan-based chemotherapy (e.g., FOLFOXIRI) or member is intolerant to irinotecan;

- c. Previous treatment with an oxaliplatin containing regimen (e.g., FOLFOX, CapeOx): Prescribed in combination with FOLFIRI, irinotecan, or irinotecan with Zelboraf® if BRAF V600E mutation positive (off-label);
- d. Previous treatment with FOLFIRI: Prescribed in combination with irinotecan, or irinotecan with Zelboraf® if BRAF V600E mutation positive (off-label);
6. Request meets one of the following (a or b):\*
  - a. Dose does not exceed an initial dose of 400 mg/m<sup>2</sup> followed by 250 mg/m<sup>2</sup> weekly; OR 500 mg/ m<sup>2</sup> thereafter;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).  
\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 6 months

**Medicaid:** 6 months

**C. Non-Small Cell Lung Cancer (off-label) (must meet all):**

1. Diagnosis of metastatic non-small cell lung cancer;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Tumor is positive for a sensitizing EGFR mutation and T790M negative;
5. Disease has progressed on or after an EGFR tyrosine kinase inhibitor (TKI) therapy (e.g., Tarceva®, Gilotrif®, or Iressa®);  
\*Prior authorization may be required for EGFR TKI therapies
6. Prescribed in combination with Gilotrif® as subsequent therapy;  
\*Prior authorization may be required for Gilotrif®
7. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use.  
(prescriber must submit supporting evidence).\*  
\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 6 months

**Medicaid:** 6 months

**D. Penile Cancer (off-label) (must meet all):**

1. Diagnosis of metastatic penile cancer;
2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years
4. Member has received prior systemic chemotherapy (e.g., paclitaxel, ifosfamide, cisplatin, 5-FU);
5. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use  
(prescriber must submit supporting evidence).\*

\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 6 months

**Medicaid:** 6 months

**E. Squamous Cell Skin Cancer (off-label) (must meet all):**

1. Diagnosis of basal cell carcinoma (non-melanoma), squamous cell skin cancer;

2. Prescribed by or in consultation with an oncologist;
3. Age ≥ 18 years;
4. Member has regional recurrence or distant metastases;
5. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).\*

\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 6 months

**Medicaid:** 6 months

**II. Continued Therapy Approval**

**A. All Indications in Section I (must meet all):**

1. Member is currently receiving medication that has been authorized by RxAdvance or member has previously met initial approval criteria listed in this policy or documentation supports that member is currently receiving Erbitux® for a covered indication and has received this medication for at least 30 days;
2. Member is responding positively to therapy;
3. If request is for a dose increase, request meets one of the following (a or b):\*
  - a. For HNSCC or CRC: new dose does not exceed 250 mg/m<sup>2</sup> weekly; OR 500 mg/ m<sup>2</sup>;
  - b. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

\*Prescribed regimen must be FDA-approved or recommended by NCCN

**Approval duration**

**Commercial:** 12 months

**Medicaid:** 12 months

**III. Appendices**

**APPENDIX A: Abbreviation/Acronym Key**

5-FU: Fluorouracil

CRC: Colorectal cancer

EGFR: Epidermal growth factor receptor

FDA: Food and Drug Administration

FOLFIRI: Fluorouracil, leucovorin, irinotecan

FOLFOX: Fluorouracil, leucovorin, oxaliplatin

FOLFOXIRI: Fluorouracil, leucovorin, oxaliplatin, irinotecan

HER: Human epidermal growth factor receptor

HNSCC: Head and neck squamous cell carcinoma

KRAS: Kirsten rat sarcoma 2 viral oncogene homologue

NRAS: Neuroblastoma RAS viral oncogene homologue

**APPENDIX B: Therapeutic Alternatives**

Below are suggested therapeutic alternatives based on clinical guidance. Please check drug formulary for preferred agents and utilization management requirements.

Drug Name	Dosing Regimen	Maximum Dose
Modified Folfox 6	<p align="center"><b>CRC</b></p> <p>Day 1: oxaliplatin 85 mg/m<sup>2</sup> intravenously            Day 1: folinic acid 400 mg/m<sup>2</sup> intravenously            Days 1-3: 5-FU 400 mg/m<sup>2</sup> intravenous bolus on day 1,            then 1,200 mg/m<sup>2</sup>/day × 2 days (total 2,400 mg/m<sup>2</sup>            over 46–48 hours) intravenous continuous infusion,            repeat cycle every 2 weeks.</p>	See dosing regimen
CapeOX	<p align="center"><b>CRC</b></p> <p>Day 1: oxaliplatin 130 mg/m<sup>2</sup> intravenously            Days 1–14: capecitabine 1,000 mg/m<sup>2</sup> orally twice daily            repeat cycle every 3 weeks.</p>	See dosing regimen
Folfirl	<p align="center"><b>CRC</b></p> <p>Day 1: Irinotecan 180 mg/m<sup>2</sup> intravenously            Day 1: Leucovorin 400 mg/m<sup>2</sup> intravenously            Day 1: Fluorouracil 400 mg/m<sup>2</sup> intravenously followed by            2,400 mg/m<sup>2</sup> continuous intravenously over 46 hours            repeat cycle every 14 days.</p>	See dosing regimen
Folfoxiri	<p align="center"><b>CRC</b></p> <p>Day 1: Irinotecan 165 mg/m<sup>2</sup> intravenously, oxaliplatin            85 mg/m<sup>2</sup> intravenously, leucovorin 400 mg/m<sup>2</sup>            intravenously, fluorouracil 1,600 mg/m<sup>2</sup> continuous            intravenously for 2 days (total            3,200 mg/m<sup>2</sup>)            repeat cycle every 2 weeks.</p>	See dosing regimen
Gilotrif® (afatinib)	<p align="center"><b>Metastatic NSCLC</b></p> <p>40 mg orally once daily</p>	40 mg/day; 50 mg/day when on chronic concomitant therapy with a P-gp inducer
Iressa® (gefitinib)	<p align="center"><b>Metastatic NSCLC</b></p> <p>250 mg orally once daily</p>	250 mg/day; 500 mg/day when used with a strong CYP3A4 inducer
Tarceva® (erlotinib)	<p align="center"><b>Metastatic NSCLC</b></p> <p>150 mg orally once daily</p>	150 mg/day; 450 mg/day when used with a strong CYP3A4 inducer or 300 mg/day when used with a moderate CYP1A2 inducer
TIP (paclitaxel, ifosfamide, cisplatin)	<p align="center"><b>Penile Cancer</b></p> <p>Day 1: Paclitaxel 175 mg/m<sup>2</sup> intravenously            Days 1-3: ifosfamide 1,200 mg/m<sup>2</sup> intravenously, cisplatin            25 mg/m<sup>2</sup> intravenously            repeat every 3 to 4 weeks.</p>	See dosing regimen

Drug Name	Dosing Regimen	Maximum Dose
5-FU, cisplatin	<p><b>Penile Cancer</b></p> <p>Day 1: cisplatin 70-80 mg/m<sup>2</sup> intravenously  Days 1-4 or 2-5: 5-FU 800 - 1,000 mg/m<sup>2</sup>/day  continuous intravenously  repeat every 3 to 4 weeks.</p>	See dosing regimen

Therapeutic alternatives are listed as generic (Brand name®) when the drug is available by both generic and brand, Brand name® when the drug is available by brand only and generic name when the drug is available by generic only.

**APPENDIX C: Contraindications/Boxed Warnings**

- Contraindication(s):
  - None reported.
  
- Boxed Warning(s):
  - Infusion reactions and cardiopulmonary arrest.

**APPENDIX D: General Information**

- Paranasal sinuses (ethmoid, maxillary)
- Larynx (glottis, supraglottis)
- Pharynx (nasopharynx, oropharynx, hypopharynx)
- Lip and oral cavity
- Major salivary glands (parotid, submandibular, sublingual)
- Occult primary

\*Squamous cell carcinoma, or a variant, is the histologic type in more than 90% of head and neck cancers.

**References**

1. Erbitux® Prescribing Information. Indianapolis, IN: Eli Lilly and Company; April 2019. Available at: <http://uspl.lilly.com/erbitux/erbitux.html>. Accessed May 31, 2021.
2. National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at: [http://www.nccn.org/professionals/drug\\_compendium](http://www.nccn.org/professionals/drug_compendium). Accessed May 31, 2021.
3. Clinical Pharmacology [database online]. Tampa, FL: Gold Standard, Inc.; 2018. Available at: <https://www.clinicalkey.com/pharmacology/monograph/2710?sec=monindi&aprid=36069>

Review/Revision History	Review/Revision Date	P&T Approval Date
Policy established.	01/2020	03/06/2020
Policy was reviewed: <ol style="list-style-type: none"> <li>1. Clinical policy title updated.</li> <li>2. Line of Business Policy Applies to was updated to all lines of business.</li> <li>3. Continued Therapy criteria II.A.1 was rephrased to "Currently receiving medication that has been authorized by RxAdvance...</li> </ol>	08/25/2020	09/14/2020

4. Reference reviewed and updated		
<p>Policy was reviewed:</p> <ol style="list-style-type: none"> <li>1. Dosing Information dosing regimen was updated to include “Premedicate with an H<sub>1</sub> receptor antagonist...” and “Complete Erbitux® administration 1 hour prior to radiation therapy...”.</li> <li>2. Dosing Information maximum dose was updated to include “400 mg/ m<sup>2</sup> intravenously for the initial dose...”.</li> <li>3. Statement about provider sample “The provision of provider samples does not guarantee coverage...” was added to Clinical Policy.</li> <li>4. Initial Approval Criteria I.A.5.a was updated to include “OR 500 mg/ m<sup>2</sup> intravenously every 2 weeks”.</li> <li>5. Initial Approval Criteria I.B.6.a was updated to include “OR 500 mg/ m<sup>2</sup>”.</li> <li>6. Continued Therapy Approval Criteria II.A.3.a was updated to include “OR 500 mg/ m<sup>2</sup>”.</li> <li>7. Appendix B footnote was updated to,” Therapeutic alternatives are listed as generic (Brand name®) when the drug is available by both generic and brand, Brand name® when the drug is available by brand only and generic name when the drug is available by generic only.</li> <li>8. References were reviewed and updated.</li> </ol>	05/31/2021	09/14/2021