Clinical Policy: Goserelin Acetate (Zoladex)

Reference Number: CP.PHAR.171
Effective Date: 10.01.16
Last Review Date: 02.22
Line of Business: HIM, Medicaid

Coding Implications
Revision Log

See Important Reminder at the end of this policy for important regulatory and legal information.

Description

Goserelin acetate (Zoladex®) is a gonadotropin-releasing hormone (GnRH) receptor agonist.

FDA Approved Indication(s)

Zoladex 3.6 and 10.8 are indicated for the treatment of prostatic carcinoma:

- In combination with flutamide for the management of locally confined Stage T2b-T4 (Stage B2-C) carcinoma. Treatment should start 8 weeks prior to initiating radiation therapy and continue during radiation therapy
- As palliative treatment of advanced carcinoma

Zoladex 3.6 is indicated:

- For the management of endometriosis, including pain relief and reduction of endometriotic lesions for the duration of therapy
- As an endometrial-thinning agent prior to endometrial ablation for dysfunctional uterine bleeding
- For the palliative treatment of advanced breast cancer in pre- and perimenopausal women

Limitation(s) of use: Experience with Zoladex for the management of endometriosis has been limited to women 18 years of age and older treated for 6 months.

Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of health plans affiliated with Centene Corporation® that Zoladex is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

A. Prostate Cancer (must meet all):

1. Diagnosis of prostate cancer;
2. Prescribed by or in consultation with an oncologist or urologist;
3. Age ≥ 18 years;
4. Request meets one of the following (a or b):*
   a. Dose does not exceed 3.6 mg per month and/or 10.8 mg per 3 months;
   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: 12 months

B. Breast Cancer (must meet all):
1. Diagnosis of breast cancer;
2. Request is for Zoladex 3.6 mg;
3. Prescribed by or in consultation with an oncologist;
4. Age ≥ 18 years;
5. Request meets one of the following (a or b):*
   a. Dose does not exceed 3.6 mg per month;
   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: 12 months

C. Endometriosis (must meet all):
1. Diagnosis of endometriosis;
2. Request is for Zoladex 3.6 mg;
3. Prescribed by or in consultation with a gynecologist;
4. Age ≥ 18 years;
5. Endometriosis as a cause of pain is one of the following (a or b):
   a. Surgically confirmed;
   b. Clinically suspected and member has failed a 3-month trial of one of the following agents within the last year or has a documented intolerance or contraindication to the agent (i, ii, or iii):
      i. A non-steroidal anti-inflammatory drug;
      ii. An oral or depot contraceptive;
      iii. A progestin;
6. For members currently receiving treatment with goserelin, total duration of therapy has not exceeded 6 months;
7. Dose does not exceed 3.6 mg per month.

Approval duration: 6 months

D. Dysfunctional Uterine Bleeding (must meet all):
1. Diagnosis of dysfunctional uterine bleeding;
2. Request is for Zoladex 3.6 mg;
3. Prescribed by or in consultation with a gynecologist;
4. Age ≥ 18 years;
5. Prescribed as an endometrial-thinning agent prior to endometrial ablation;
6. Member has not yet received two implants;
7. Dose does not exceed 3.6 mg per month.

Approval duration: 8 weeks (2 implants per ablation procedure)

E. Gender Dysphoria, Gender Transition (off-label) (must meet all)**:**
1. Diagnosis of gender dysphoria or request is for gender transition;
2. Prescribed by or in consultation with an endocrinologist and a provider with expertise in gender dysphoria and transgender medicine based on a certified training program

or affiliation with local transgender health services (e.g., mental health professional such as psychologist, psychiatrist, see *Appendix D*);

3. Age and pubertal development - meets (a or b):
   a. Member has reached or passed through Tanner Stage 2* and is < 18 years of age;

      **Age ranges approximating Tanner Stage 2 pubertal development extend from 8 to 13 years of age in girls and 9 to 14 years of age in boys.*
   b. Member is ≥ 18 years of age and has failed to achieve physiologic hormone levels with gender-affirming hormonal therapy (e.g., estrogen, testosterone) unless contraindicated or clinically significant adverse effects are experienced;
4. Member demonstrates understanding of expected GnRH analogue treatment outcomes and has given consent for such treatment;
5. If member has a psychiatric comorbidity, member is followed by mental health provider;
6. Psychosocial support will be provided during treatment;
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*).

Approval duration: 12 months

F. Other diagnoses/indications

1. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

II. Continued Therapy

A. Prostate Cancer (must meet all):

1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Zoladex for prostate cancer 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. New dose does not exceed 3.6 mg per month and/or 10.8 mg per 3 months;
   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: 12 months

B. Breast Cancer (must meet all):

1. Currently receiving medication via Centene benefit, or documentation supports that member is currently receiving Zoladex for breast cancer and has received this medication for at least 30 days;
2. Request is for Zoladex 3.6 mg;
3. Member is responding positively to therapy;
4. If request is for a dose increase, request meets one of the following (a or b):*
   a. New dose does not exceed 3.6 mg per month;

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: 12 months

C. Endometriosis (must meet all):

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Request is for Zoladex 3.6 mg;
3. Member is responding positively to therapy as evidenced by, including but not limited to, improvement in any of the following parameters: improvement in dysmenorrhea, dyspareunia, pelvic pain/induration/tenderness, size of endometrial lesions;
4. Total duration of goserelin therapy has not exceeded 6 months;
5. If request is for a dose increase, new dose does not exceed 3.6 mg per month.

Approval duration: up to a total treatment duration of 6 months

D. Dysfunctional Uterine Bleeding (must meet all):

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Request is for Zoladex 3.6 mg;
3. Member has not yet received two implants;
4. Member is responding positively to therapy as evidenced by, including but not limited to, improvement in any of the following parameters: improvement in dysmenorrhea, dyspareunia, pelvic pain/induration/tenderness, size of endometrial lesions;
5. If request is for a dose increase, new dose does not exceed 3.6 mg per month.

Approval duration: 4 weeks (2 implants total per ablation procedure)

E. Gender Dysphoria, Gender Transition (off-label) (must meet all)**:**

1. Currently receiving medication via Centene benefit or member has previously met initial approval criteria;
2. Member is responding positively to therapy;
3. If request is for a dose increase, new 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*).

Approval duration: 12 months

F. Other diagnoses/indications (must meet 1 or 2)**:**

1. Currently receiving medication via Centene benefit and documentation supports positive response to therapy.
   Approval duration: Duration of request or 6 months (whichever is less); or
2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): HIM.PA.154 for health insurance marketplace, and CP.PMN.53 for Medicaid.

III. Diagnoses/Indications for which coverage is NOT authorized:

A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – HIM.PA.154 for health insurance marketplace and CP.PMN.53 for Medicaid, or evidence of coverage documents.

IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key
FDA: Food and Drug Administration
GnRH: gonadotropin-releasing hormone
NCCN: National Comprehensive Cancer Network

Appendix B: Therapeutic Alternatives
This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.

Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
NSAIDs*: ibuprofen, naproxen, fenoprofen, ketoprofen, mefenamic acid, meclofenamate, indomethacin, tolmetin, diclofenac, etodolac, diflunisal, meloxicam, piroxicam	Endometriosis Varies – refer to specific prescribing information	Varies – refer to specific prescribing information
Combined oral estrogen-progesterone contraceptives*: ethinyl estradiol + (desogestrel, ethynodiol diacetate, drospirenone, etonogestrel, levonorgestrel, norelgestromin, norethindrone, norgestimate, or norgestrel); estradiol valerate + dienogest; mestranol + norethindrone	Endometriosis 1 tablet PO QD (may vary per specific prescribing information)	1 tablet per day (may vary per specific prescribing information)
Progestin-only oral contraceptives*: norethindrone	Endometriosis 0.35 mg PO QD	0.35 mg PO QD
Depot progestin contraceptive*: medroxyprogesterone acetate	Endometriosis IM: 150 mg per 3 months (every 13 weeks) SC: 104 mg per 3 months (every 12-14 weeks)	See regimen

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.
**Examples provided may not be all-inclusive*

Appendix C: Contraindications/Boxed Warnings

- Contraindication(s):
  - Hypersensitivity

- Pregnancy unless used for treatment of advanced breast cancer
- Boxed warning(s): None reported

Appendix D: General Information

- WPATH offers their Global Education Institute (GEI) Certified Training Courses: Best Practices in Transgender Medical and Mental Health Care. Additionally, the following link provides a search tool to locate WPATH member providers: https://www.wpath.org/provider/search
- Transgender Care Therapy Certification Training is also offered by the International Transgender Certification Association (ITCA). Professionals with expertise in transgender care can be located using the following search tool: https://transgendercertification.com/locate-a-professional/
- The draft of WPATH Standards of Care Version 8 are available and open for public comment. These standards of care recommend that adolescents are managed by a multidisciplinary care team that involves both medical and mental health professionals. The list of key disciplines includes but is not limited to: adolescent medicine/primary care, endocrinology, psychology, psychiatry, speech/language pathology, fertility, social work, support staff, and the surgical team. The need to include a healthcare professional with some expertise in mental health does not dictate the inclusion of a psychologist, psychiatrist or social work in every assessment. Instead, a general practitioner, nurse or other qualified clinician could fulfill this requirement as long as they have sufficient expertise to diagnose gender incongruence, recognize mental health concerns, distinguish between these concerns and gender dysphoria, incongruence or diversity, assist a transgender person in care planning and preparing for gender affirmative medical and surgical treatments, and refer to a mental health professional if needed.

V. Dosage and Administration

Drug Name	Indication	Dosing Regimen	Maximum Dose
Goserelin acetate (Zoladex 3.6, 10.8)	Prostate cancer - stage B2-C	3.6 mg SC 8 weeks before radiotherapy, followed by 10.8 mg SC in 28 days (alternative: 4 injections of 3.6 mg at 28-day intervals, 2 preceding and 2 during radiotherapy)	See regimen
Goserelin acetate (Zoladex 3.6)	Prostate cancer - palliative therapy	3.6 mg SC every 28 days	3.6 mg per 28 days
	Endometriosis	3.6 mg SC every 28 days	3.6 mg per 28 days (6 months total treatment)
	Dysfunctional uterine bleeding	3.6 mg SC every 28 days	3.6 mg per 28 days (2 doses total per

Drug Name	Indication	Dosing Regimen	Maximum Dose
			ablation procedure)
	Breast cancer - palliative therapy	3.6 mg SC every 28 days	3.6 mg per 28 days

VI. Product Availability

Implant: 3.6 mg, 10.8 mg

VII. References

1. Zoladex (3.6 mg) Prescribing Information. Wilmington, DE: AstraZeneca Pharmaceuticals LP; February 2020. Available at https://www.zoladexhcp.com. Accessed July 14, 2021.
2. Zoladex (10.8 mg) Prescribing Information. Wilmington, DE: AstraZeneca Pharmaceuticals LP; February 2020. Available at https://www.zoladexhcp.com. Accessed July 14, 2021.
3. National Comprehensive Cancer Network Drugs and Biologics Compendium. Goserelin acetate. Available at nccn.org. Accessed July 14, 2021.
4. National Comprehensive Cancer Network. Prostate cancer (Version 2.2021). Available at https://www.nccn.org/professionals/physician_gls/pdf/prostate.pdf. Accessed July 14, 2021.
5. National Comprehensive Cancer Network. Breast cancer (Version 5.2021). Available at https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed July 14, 2021.
6. Committee on Practice Bulletins - Gynecology. Management of endometriosis. July 2010 (reaffirmed 2016); 116(1): 223-236.
7. Coleman E, Bockting W, Botzer M, et al. Standards of care for the health of transsexual, transgender, and gender nonconforming people. WPATH: World Professional Association for Transgender Health. 7th version; 2012. Available at https://www.wpath.org/media/cms/Documents/SOC%20v7/SOC%20V7_English2012.pdf?_t=1613669341. Accessed December 14, 2021.
8. WPATH: World Professional Association for Transgender Health Standards of Care Version 8 Draft. Available at: https://www.wpath.org/soc8. Accessed December 14, 2021.

Coding Implications

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J9202	Goserelin acetate implant, per 3.6 mg

Reviews, Revisions, and Approvals	Date	P&T Approval Date
4Q 2018 annual review: no significant changes; added HIM; for oncology, summarized NCCN and FDA-approved uses for improved	08.07.18	11.18

Reviews, Revisions, and Approvals	Date	P&T Approval Date
clarity (limited to diagnosis); specialist involvement in care and continuation of care added; references reviewed and updated.		
4Q 2019 annual review: removed pregnancy safety requirement for breast cancer and endometriosis indications; added oncologist prescriber requirement for breast cancer; for prostate cancer removed requirement for use of 3.6 mg or 10.8 mg strengths as those are the only available strengths, added urologist specialist option; for dysfunctional uterine bleeding added requirement to Section I and II to validate member has not yet received two implants; references reviewed and updated.	07.29.19	11.19
4Q 2020 annual review: no significant changes; revised notation on endometriosis to state total duration of therapy should not exceed 6 months (previously stated 12 months) per the prescribing information; references reviewed and updated.	07.15.20	11.20
4Q 2021 annual review: added 8 week initial and 4 week continued approval duration for dysfunctional uterine bleeding indication; for endometriosis clarified total duration of therapy has not exceeded 6 months represented as a criteria requirement rather than a foot note in the criteria set; references to HIM.PHAR.21 revised to HIM.PA.154; references reviewed and updated.	07.14.21	11.21
Added criteria set for off-label use in gender dysphoria, gender transition; references reviewed and updated.	12.14.21	02.22

Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

This clinical policy is the property of the Health Plan. Unauthorized copying, use, and distribution of this clinical policy or any information contained herein are strictly prohibited. Providers, members and their representatives are bound to the terms and conditions expressed herein through the terms of their contracts. Where no such contract exists, providers, members and their representatives agree to be bound by such terms and conditions by providing services to members and/or submitting claims for payment for such services.

Note:
For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.