

PREFERRED SPECIALTY MANAGEMENT POLICY

- POLICY:** Chorionic Gonadotropins Preferred Specialty Management Policy
- Pregnyl® (chorionic gonadotropin intramuscular injection [urine-derived] – Organon)
 - Novarel® (chorionic gonadotropin intramuscular injection [urine-derived] – Ferring)
 - Chorionic gonadotropin intramuscular injection (urine-derived) – Fresenius Kabi, others
 - Ovidrel® (choriogonadotropin alfa subcutaneous injection [recombinant] – EMD Serono)

REVIEW DATE: 10/30/2024

OVERVIEW

Pregnyl, Novarel, and chorionic gonadotropin for injection are indicated for the following uses:¹⁻³

- **Prepubertal cryptorchidism** not due to anatomical obstruction.
- Selected cases of **hypogonadotropic hypogonadism** (hypogonadism secondary to a pituitary deficiency) in males.
- **Induction of ovulation and pregnancy** in the anovulatory, infertile women in whom the cause of anovulation is secondary and not due to primary ovarian failure, and who has been appropriately pretreated with human menopausal gonadotropins.

Ovidrel is indicated for the following uses:⁴

- **Induction of final follicular maturation and early luteinization** in infertile women who have undergone pituitary desensitization and who have been appropriately pretreated with follicle stimulating hormones as part of an Assisted Reproductive Technology (ART) program such as *in vitro* fertilization and embryo transfer.
- **Induction of ovulation and pregnancy** in anovulatory infertile patients in whom the cause of infertility is functional and not due to primary ovarian failure.

Pregnyl, Novarel, and chorionic gonadotropin for injection are highly purified preparations obtained from the urine of pregnant females and are administered intramuscularly.¹⁻³ Ovidrel is a recombinant human chorionic gonadotropin (hCG) and is for subcutaneous use only.⁴ The physicochemical, immunological, and biological activities of recombinant hCG are comparable to those of placental and human pregnancy-urine derived hCG.

The action of hCG is very similar to the pituitary luteinizing hormone (LH), although hCG possesses slight follicle-stimulating hormone (FSH) activity.¹⁻³ hCG also stimulates production of gonadal steroid hormones by stimulating the interstitial cells of the testis to produce androgens and the corpus luteum of the ovary to produce progesterone.

In males, androgen stimulation by hCG results in the development of secondary sex characteristics that may lead to testicular descent when no anatomical obstruction is present.¹⁻³ When hCG is discontinued, the descent is usually reversible. During the normal menstrual cycle, LH acts with FSH in the maturation and development of the normal ovarian follicle and the mid-cycle LH surge causes ovulation; hCG can replace LH in this capacity. When pregnancy occurs, hCG produced by the placenta maintains the corpus luteum after LH secretion decreases, supporting continued secretion of estrogen and progesterone and preventing menstruation.

Table 1. Chorionic Gonadotropin Product Descriptions/Dosing Regimens.¹⁻⁴

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hCG – Human chorionic gonadotropin; IM – intramuscularly; SC – subcutaneously; * The dosage regimen used in any particular patient will depend upon the indication for the use, the age and weight of the patient, and the physician’s preference. The regimens listed have been advocated by various authorities; TIW – Three times per week; ART – Assisted reproductive technology.

POLICY STATEMENT

Utilization of these products is not managed by a Prior Authorization Policy, but rather based on whether a patient’s benefit includes infertility coverage. If the patient’s benefit includes infertility coverage, this Preferred Specialty Management Program has been developed to encourage the use of Preferred Products. The program also directs the patient to try one Preferred Product prior to the approval of a Non-Preferred Product. Requests for the Non-Preferred Products will also be reviewed using the exception criteria (below). All approvals are provided for the duration noted below.

If the patient’s benefit does not include infertility coverage, benefit exclusion overrides may be in place. This Preferred Specialty Management program requires the patient to meet standard *Chorionic Gonadotropin Benefit Exclusion Overrides Policy* criteria and requires the patient to try a Preferred Product, when clinically appropriate, prior to the approval of Non-Preferred Products.

If the patient’s benefit does not include infertility coverage and benefit exclusion overrides are not utilized, coverage will be denied.

Automation: None.

Preferred Products: Novarel, Ovidrel
Non-Preferred Products: Chorionic Gonadotropin for injection, Pregnyl

RECOMMENDED EXCEPTION CRITERIA

REFERENCES

1. Pregnyl® intramuscular injection [prescribing information]. Jersey City, NJ: Organon; June 2023.
2. Novarel® intramuscular injection [prescribing information]. Parsippany, NJ: Ferring; May 2023.
3. Chorionic gonadotropin intramuscular injection [prescribing information]. Lake Zurich, IL: Fresenius Kabi; February 2016.
4. Ovidrel® subcutaneous injection [prescribing information]. Rockland, MA: EMD Serono; June 2018.

