

**INFERTILITY DIAGNOSIS AND TREATMENT/
ASSISTED REPRODUCTION****Effective Date:** September 1, 2025**Review Dates:** 1/93, 12/99, 12/01, 11/02, 11/03, 11/04, 10/05, 10/06, 7/07, 6/08, 6/09, 6/10, 6/11, 6/12, 6/13, 8/14, 5/15, 5/16, 5/17, 5/18, 5/19, 5/20, 2/21, 2/22, 8/22, 8/23, 8/24, 8/25**Date of Origin:** July 7, 1989**Status:** Current

Note: This policy incorporates previously separate policy Sperm & Oocyte Retrieval and Storage #91393.

Please refer to a member's plan documents, including riders if available, for specific pharmacy or medical benefits availability and the terms and conditions of coverage.

Summary of Changes

- Deleted examples of diagnostic and treatment services.
- Added new sections: Government/Regulations, and Guidelines/Position Statements.

I. POLICY/CRITERIA

See SPECIAL NOTES section below for specific information regarding Medicaid and Healthy Michigan plan members.

A. Infertility**1. Diagnostic Services:**

- a. Diagnostic evaluation of infertility is medically necessary if the procedure is appropriate for establishing the underlying cause of infertility.

2. Treatment for the underlying medical cause infertility is medically necessary if the member is diagnosed as infertile, and has not had an elective sterilization.

- a. The individual on whom the procedure is being performed must be a member to be eligible for coverage. For example, coverage for semen analysis would require that they are a member of Priority Health.
- b. Pharmacologic intervention: Limitations may apply. Please check benefit plan descriptions and formularies for details on which specific medications are covered if any. The medications may not be covered for members without pharmacy benefit plans; in addition, some pharmacy benefit plans may exclude or limit coverage of some or all of these medications.

B. Assisted reproduction services

Care and services related to Assisted Reproduction and Artificial Insemination are not a covered benefit unless the group/member has purchased a rider or supplemental coverage for these services. Unless provided by plan amendment, all services and supplies related to assisted reproduction services are excluded from coverage. Some examples of this exclusion are:

- Any service done in preparation for the assisted reproduction procedure or done to determine optimal timing of the procedure (e.g., lab work, ultrasounds).
- Immunological testing (e.g., antiprothrombin antibodies, embryotoxicity assay, circulating natural killer cell measurement, antiphospholipid antibodies, reproductive immunophenotype [RIP], cytokine assay and Th1/Th2 cytokine ratio).
- Any concomitant procedure or service done with the assisted reproduction (e.g. laparoscopy).
- Any post-operative or follow-up service or procedure (e.g., testing to determine success of procedure, such as ultrasonography).

C. Sperm and Oocyte Retrieval and Storage

1. All services for retrieval, preservation, storage or thawing of semen, oocytes, or ovaries are not covered benefit.
2. The retrieval and storage of semen, oocytes or ovarian tissue prior to cancer treatment are not a covered benefit.

D. Pre-implantation genetic diagnosis (PGD) Please refer to the medical policy *Genetics: Counseling, Testing and Screening #91540.*

SPECIAL NOTES:

Maternity care for a pregnancy resulting from infertility treatment is covered for members only.

Medicaid/Healthy Michigan Plan members: The Medicaid and Healthy Michigan Plan Certificates of Coverage (COC) state that all services and supplies relating to treatments for infertility including, among other things, artificial insemination, in-vitro fertilization, embryo or ovum transfer procedures, any other assisted reproduction procedure, fees to a surrogate or gestational carrier, prescription drugs designed to achieve pregnancy, harvest preservation and storage of eggs or sperm and services to reverse voluntary sterilizations are **not a covered benefit**. Diagnostic services are covered as described in the Medicaid and the Healthy Michigan Plan COC Section 6.B. 14 and 6.B.20.

II. GOVERNMENT REGULATIONS

CMS Coverage Determinations	Title and Number
National Coverage Determinations (NCDs)	N/A
Local Coverage Determinations	N/A

III. GUIDELINES/POSITION STATEMENTS

Medical or Professional Society	Recommendation
American College of Obstetricians and Gynecologists (ACOG) (2019)	Infertility Workup for the Women’s Health Specialist. ACOG Committee Opinion Summary, Number 781
American Society of Reproductive Medicine. Practice Committee (2021)	Fertility evaluation of infertile women: a committee opinion
American Urological Association, (Published 2020, Amended 2024)	Diagnosis and Treatment of Infertility in Men: AUA/ASRM Guideline

IV. MEDICAL NECESSITY REVIEW

Prior authorization for certain drug, services, and procedures may or may not be required. In cases where prior authorization is required, providers will submit a request demonstrating that a drug, service, or procedure is medically necessary. For more information, please refer to the [Priority Health Provider Manual](#).

V. APPLICATION TO PRODUCTS

Coverage is subject to member’s specific benefits. Group specific policy will supersede this policy when applicable.

- ❖ **HMO/EPO:** *This policy applies to insured HMO/EPO plans.*
- ❖ **POS:** *This policy applies to insured POS plans.*
- ❖ **PPO:** *This policy applies to insured PPO plans. Consult individual plan documents as state mandated benefits may apply. If there is a conflict between this policy and a plan document, the provisions of the plan document will govern.*
- ❖ **ASO:** *For self-funded plans, consult individual plan documents. If there is a conflict between this policy and a self-funded plan document, the provisions of the plan document will govern.*
- ❖ **INDIVIDUAL:** *For individual policies, consult the individual insurance policy. If there is a conflict between this medical policy and the individual insurance policy document, the provisions of the individual insurance policy will govern.*

- ❖ **MEDICARE:** *Coverage is determined by the Centers for Medicare and Medicaid Services (CMS) and/or the Evidence of Coverage (EOC); if a coverage determination has not been adopted by CMS, this policy applies.*
- ❖ **MEDICAID/HEALTHY MICHIGAN PLAN:** *For Medicaid/Healthy Michigan Plan members, this policy will apply. Coverage is based on medical necessity criteria being met and the appropriate code(s) from the coding section of this policy being included on the Michigan Medicaid Fee Schedule located at: http://www.michigan.gov/mdch/0,1607,7-132-2945_42542_42543_42546_42551-159815--,00.html. If there is a discrepancy between this policy and the Michigan Medicaid Provider Manual located at: http://www.michigan.gov/mdch/0,1607,7-132-2945_5100-87572--,00.html, the Michigan Medicaid Provider Manual will govern. If there is a discrepancy or lack of guidance in the Michigan Medicaid Provider Manual, the Priority Health contract with Michigan Medicaid will govern. For Medical Supplies/DME/Prosthetics and Orthotics, please refer to the Michigan Medicaid Fee Schedule to verify coverage.*

VI. BACKGROUND

For the intent of this section, the terms female and male are used to identify sex assigned at birth and not gender identity. Definitions of infertility are not stated in this section as medical criteria for services in this policy. Please refer to the member's specific plan documents and any applicable riders for benefit coverage.

The World Health Organization defines infertility is a disease of the male or female reproductive system defined by the failure to achieve a pregnancy after 12 months or more of regular unprotected sexual intercourse (WHO, 2024). The American College of Obstetrics & Gynecology defines infertility as failure to achieve pregnancy within 12 months of unprotected intercourse or therapeutic donor insemination in women younger than 35 years or within 6 months in women older than 35 years (ACOG, 2019). In a 2023 update, the American Society of Reproductive Medicine's (ASRM), states that one component of their definition of infertility is "the inability to achieve a successful pregnancy based on a patient's medical, sexual, and reproductive history, age, physical findings, diagnostic testing, or any combination of those factors" (ASRM, 2023).

Infertility may be caused by a number of different factors. In the female reproductive system, infertility may be caused by tubal disorders such as blocked fallopian tubes, uterine disorders (e.g., endometriosis, fibroids, septate uterus), disorders of the ovaries (e.g., polycystic ovarian syndrome), follicular disorders, and disorders of the endocrine system causing imbalances of reproductive hormones. In the male reproductive system, infertility may be caused by obstruction of the reproductive tract causing dysfunctions in the ejection of semen, hormonal disorders, testicular failure to produce sperm, or abnormal sperm function and quality. Other factors include lifestyle and environmental exposure to pollutants and toxins (WHO, 2024). The ASRM states that in the absence of exigent history or physical findings, evaluation should and treatment

may be initiated at 12 months in women <35 years of age and at 6 months in women aged >35 years. In women >40 years of age, more immediate evaluation and treatment may be warranted (ASRM, 2021). ACOG states that the essential components of an initial workup include a review of the medical history, physical examination, and additional tests as indicated. For the female partner, tests will focus on ovarian reserve, ovulatory function, and structural abnormalities. Imaging of the reproductive organs provides valuable information on conditions that affect fertility. Imaging modalities can detect tubal patency and pelvic pathology and assess ovarian reserve (ACOG, 2019). For the initial evaluation of the male partners, the American Urological Association (AUA) and ASRM recommends a step-wise process of evaluation and consultation regarding treatment options, beginning with the review of reproductive history and one or more semen analyses (Schlegel, 2020). The AUA and ASRM recommends proceeding with evaluation for the male and female partners in parallel to optimize treatment success. ARSM does not recommend laparoscopy, advanced sperm function testing, postcoital testing, thrombophilia testing, immunologic testing, karyotype, endometrial biopsy, and serum prolactin as part of the routine infertility evaluation without other clinical indications (ARSM, 2021).

Assisted Reproductive Technology (ART) refers to treatments and procedures that aim to achieve pregnancy. The Center for Disease Control (CDC) defines ART as any fertility-related treatments in which eggs or embryos are manipulated. Procedures where only sperm are manipulated, such as intrauterine inseminations, are not considered under the CDC's definition. Additionally, procedures in which ovarian stimulation is performed without a plan for egg retrieval are also excluded from their definition (CDC, 2019). In vitro fertilization (IVF) is a method of assisted reproduction in which eggs are removed from a woman's ovary and combined with sperm outside the body to form embryos. The embryos are grown in the laboratory for several days and then either placed in a woman's uterus or cryopreserved (frozen) for future use (NCI). The steps in an IVF treatment cycle are ovarian stimulation, egg retrieval, fertilization, embryo culture, and embryo transfer. Intrauterine insemination (IUI) is a procedure that bypasses the cervix and places sperm into the uterus around the time of ovulation. IUI is most commonly used when the male partner has a low sperm count or if the movement of the sperm (motility) is less than ideal. IUI is also helpful when a cervix has scarring that prevents the sperm from entering the uterus from the vagina (ASRM, 2012). Gamete intrafallopian transfer (GIFT) is similar to IVF, but the gametes (egg and sperm) are transferred to the woman's fallopian tubes rather than her uterus, and fertilization takes place in the tubes rather than in the lab. Another difference is that laparoscopy, a surgical procedure, is necessary to transfer the sperm and egg to the tubes. GIFT is an option only for women who have normal fallopian tubes. Another ART procedure similar to GIFT is is zygote intrafallopian transfer (ZIFT). The fertilized egg is transferred to the fallopian tube rather than the uterus, but unlike GIFT the fertilization takes place in the lab. This procedure also requires a laparoscopy (ASRM, 2016).

VII. CODING INFORMATION
A. Infertility:

ICD-10 Codes that apply to this policy:

- N46.01 – N46.9 Male infertility
 N97.0 – N97.9 Female infertility

CPT/HCPCS Codes (List should not be considered inclusive):

All procedures billed with the diagnoses above may be subject to the plan's Fertility benefit limitations, including but not limited to:

- Anesthesia
- DME
 - E1399 Durable medical equipment, miscellaneous – *if billed for testicular hypothermia device (Explanatory notes must accompany claim)*
- Medication
 - J0725 Injection, Chorionic Gonadotropin, Per 1,000 Usp Units
 - J1620 Injection, Gonadorelin Hydrochloride, Per 100 Mcg (*no active NDC for this code*)
 - J1950 Injection, leuprolide acetate (for depot suspension), per 3.75 mg
 - J3355 Injection, urofollotropin, 75IU
 - S0126 Injection, follitropin alfa, 75 IU
 - S0128 Injection, follitropin beta, 75 IU
- Radiology
 - 74740 Hysterosalpingography, radiological supervision and interpretation
 - 74742 Transcervical catheterization of fallopian tube, radiological supervision and interpretation
 - 74440 Vasography, vesiculography, or epididymography, radiological supervision and interpretation
- Lab/Path
 - 0255U Andrology (infertility), sperm-capacitation assessment of ganglioside GM1 distribution patterns, fluorescence microscopy, fresh or frozen specimen, reported as percentage of capacitated sperm and probability of generating a pregnancy score
 - 89300 Semen analysis; presence and/or motility of sperm including Huhner test (post coital)
 - 89310 Semen analysis; motility and count (not including Huhner test)
 - 89320 Semen analysis; complete (volume, count, motility, and differential)
 - 89321 Semen analysis, presence and/or motility of sperm
 - 89322 Semen analysis; volume, count, motility, and differential using strict morphologic criteria (e.g., Kruger)
 - 89325 Sperm antibodies
 - 89329 Sperm evaluation; hamster penetration test

- 89330 Sperm evaluation; cervical mucus penetration test, with or without spinnbarkeit test
- 89331 Sperm evaluation, for retrograde ejaculation, urine (sperm concentration, motility, and morphology, as indicated)
- 89398 Unlisted reproductive medicine laboratory procedure (*Explanatory notes must accompany claim*)

- G0027 Semen analysis; presence and/or motility of sperm excluding hühner
- Q0115 Post-coital direct, qualitative examinations of vaginal or cervical mucous

- **Surgery**
 - 52010 Cystourethroscopy, with ejaculatory duct catheterization, with or without irrigation, instillation, or duct radiography, exclusive of radiologic service
 - 52402 Cystourethroscopy with transurethral resection or incision of ejaculatory ducts
 - 54692 Laparoscopy, surgical; orchiopexy for intra-abdominal testis
 - 54900 Epididymovasostomy, anastomosis of epididymis to vas deferens; unilateral
 - 54901 Epididymovasostomy, anastomosis of epididymis to vas deferens; bilateral
 - 55200 Vasotomy, cannulization with or without incision of vas, unilateral or bilateral (separate procedure)
 - 55300 Vasotomy for vasograms, seminal vesiculograms, or epididymograms, unilateral or bilateral
 - 58100 Endometrial sampling (biopsy) with or without endocervical sampling (biopsy), without cervical dilation, any method (separate procedure)
 - 58110 Endometrial sampling (biopsy) performed in conjunction with colposcopy (List separately in addition to code for primary procedure)
 - 58340 Catheterization and introduction of saline or contrast material for saline infusion sonohysterography (SIS) or hysterosalpingography
 - 58345 Transcervical introduction of fallopian tube catheter for diagnosis and/or re-establishing patency (any method), with or without hysterosalpingography
 - 58350 Chromotubation of oviduct, including materials

 - 58578 Unlisted laparoscopy procedure, uterus (*Explanatory notes must accompany claim*)

 - 58660 Laparoscopy, surgical; with lysis of adhesions (salpingolysis, ovariolysis) (separate procedure)
 - 58662 Laparoscopy, surgical; with fulguration or excision of lesions of the ovary, pelvic viscera, or peritoneal surface by any method
 - 58672 Laparoscopy, surgical; with fimbrioplasty

 - 58752 Tubouterine implantation
 - 58760 Fimbrioplasty
 - 58673 Laparoscopy, surgical; with salpingostomy (salpingoneostomy)

- 58679 Unlisted laparoscopy procedure, oviduct, ovary (*Explanatory notes must accompany claim*)
- 58752 Tubouterine implantation
- 58760 Fimbrioplasty
- 58770 Salpingostomy (salpingoneostomy)
- 58999 Unlisted procedure, female genital system (nonobstetrical)

B. Assisted reproduction or artificial conception procedures

Any services billed with the following diagnoses are not covered:
(Check plan rules for any coverage exceptions)

ICD-10 Codes that are required for billing these services:

- Z31.81 Encounter for male factor infertility in female patient
- Z31.83 Encounter for assisted reproductive fertility procedure cycle
- Z31.89 Encounter for other procreative management
- Z31.9 Encounter for procreative management, unspecified

- Z52.810 Egg (Oocyte) donor under age 35, anonymous recipient
- Z52.811 Egg (Oocyte) donor under age 35, designated recipient
- Z52.812 Egg (Oocyte) donor age 35 and over, anonymous recipient
- Z52.813 Egg (Oocyte) donor age 35 and over, designated recipient
- Z52.819 Egg (Oocyte) donor, unspecified

CPT/HCPCS Codes:

All procedures billed with the diagnoses above will be denied as not covered (unless plan specifies coverage), including but not limited to:

- Anesthesia
- Medication
- Radiology
- Lab/Path
 - 80414 Chorionic gonadotropin stimulation panel; testosterone response
This panel must include the following: Testosterone (84403 x 2 on 3 pooled blood samples)
 - 80415 Chorionic gonadotropin stimulation panel; estradiol response This panel must include the following: Estradiol (82670 x 2 on 3 pooled blood samples)
 - 80426 Gonadotropin releasing hormone stimulation panel This panel must include the following: Follicle stimulating hormone (FSH) (83001 x 4) Luteinizing hormone (LH) (83002 x 4)
 - 82626 Dehydroepiandrosterone (DHEA)
 - 82627 Dehydroepiandrosterone-sulfate (DHEA-S)
 - 82670 Estradiol
 - 82671 Estrogens; fractionated
 - 82672 Estrogens; total
 - 82679 Estrone
 - 82681 Estradiol; free, direct measurement
 - 82757 Fructose, semen
 - 83001 Gonadotropin; follicle stimulating hormone (FSH)
 - 83002 Gonadotropin; luteinizing hormone (LH)

89250	Culture of oocyte(s)/embryo(s), less than 4 days;
89251	Culture of oocyte(s)/embryo(s), less than 4 days; with co-culture of oocyte(s)/embryos
89253	Assisted embryo hatching, microtechniques (any method)
89254	Oocyte identification from follicular fluid
89255	Preparation of embryo for transfer (any method)
89257	Sperm identification from aspiration (other than seminal fluid)
89258	Cryopreservation; embryo(s)
89259	Cryopreservation; sperm
89260	Sperm isolation; simple prep (e.g., sperm wash and swim-up) for insemination or diagnosis with semen analysis
89261	Sperm isolation; complex prep (e.g., Percoll gradient, albumin gradient) for insemination or diagnosis with semen analysis
89264	Sperm identification from testis tissue, fresh or cryopreserved
89268	Insemination of oocytes
89272	Extended culture of oocyte(s)/embryo(s), 4-7 days
89280	Assisted oocyte fertilization, microtechnique; less than or equal to 10 oocytes
89281	Assisted oocyte fertilization, microtechnique; greater than 10 oocytes
89335	Cryopreservation, reproductive tissue, testicular
89337	Cryopreservation, mature oocyte(s)
89342	Storage, (per year); embryo(s)
89343	Storage, (per year); sperm/semen
89344	Storage, (per year); reproductive tissue, testicular/ovarian
89346	Storage, (per year); oocyte(s)
89352	Thawing of cryopreserved; embryo(s)
89353	Thawing of cryopreserved; sperm/semen, each aliquot
89354	Thawing of cryopreserved; reproductive tissue, testicular/ovarian
89356	Thawing of cryopreserved; oocytes, each aliquot

- Physician Services
- Office Visits
- Surgery/Procedures

58321	Artificial insemination; intra-cervical
58322	Artificial insemination; intra-uterine
58323	Sperm washing for artificial insemination
58970	Follicle puncture for oocyte retrieval, any method
58974	Embryo transfer, intrauterine
58976	Gamete, zygote, or embryo intrafallopian transfer, any method

C. Sperm and Oocyte Retrieval and Storage

ICD-10 Codes that apply to this policy:

Z52.810	Egg (Oocyte) donor under age 35, anonymous recipient
Z52.811	Egg (Oocyte) donor under age 35, designated recipient
Z52.812	Egg (Oocyte) donor age 35 and over, anonymous recipient
Z52.813	Egg (Oocyte) donor age 35 and over, designated recipient
Z52.819	Egg (Oocyte) donor, unspecified

Z31.81	Encounter for male factor infertility in female patient
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- Z31.83 Encounter for assisted reproductive fertility procedure cycle
- Z31.84 Encounter for fertility preservation procedure
- Z31.89 Encounter for other procreative management
- Z31.9 Encounter for procreative management, unspecified

CPT/HCPCS Codes

Basic services billed with the above diagnoses are not covered including but not limited to: Office Visits, Surgery, Medicine services, Anesthesia, Lab/Pathology, Pharmacy, and Radiology covered (unless plan specifies coverage).

The following services are Not Covered (unless plan specifies coverage)

- 55870 Electroejaculation
- 58970 Follicle puncture for oocyte retrieval, any method

- 89250 Culture of oocyte(s)/embryo(s), less than 4 days;
- 89251 Culture of oocyte(s)/embryo(s), less than 4 days; with co-culture of oocyte(s)/embryos
- 89258 Cryopreservation; embryo(s)
- 89259 Cryopreservation; sperm
- 89264 Sperm identification from testis tissue, fresh or cryopreserved
- 89268 Insemination of oocytes
- 89272 Extended culture of oocyte(s)/embryo(s), 4-7 days
- 89335 Cryopreservation, reproductive tissue, testicular
- 89337 Cryopreservation, mature oocyte(s)
- 89342 Storage, (per year); embryo(s)
- 89343 Storage, (per year); sperm/semen
- 89344 Storage, (per year); reproductive tissue, testicular/ovarian
- 89346 Storage, (per year); oocyte(s)
- 89352 Thawing of cryopreserved; embryo(s)
- 89353 Thawing of cryopreserved; sperm/semen, each aliquot
- 89354 Thawing of cryopreserved; reproductive tissue, testicular/ovarian
- 89356 Thawing of cryopreserved; oocytes, each aliquot

- S4027 Storage of previously frozen embryos
- S4030 Sperm procurement and cryopreservation services; initial visit
- S4031 Sperm procurement and cryopreservation services; subsequent visit
- S4037 Cryopreserved embryo transfer, case rate
- S4040 Monitoring and storage of cryopreserved embryos, per 30 days

Any service billed with the following diagnoses are not covered

- Z31.0 Encounter for reversal of previous sterilization
- Z31.7 Encounter for procreative management and counseling for gestational carrier
- Z31.42 Aftercare following sterilization reversal

The following services are not covered regardless of diagnosis billed:

- 0664T Donor hysterectomy (including cold preservation); open, from cadaver donor
- 0665T Donor hysterectomy (including cold preservation); open, from living donor

- 0668T Backbench standard preparation of cadaver or living donor uterine allograft prior to transplantation, including dissection and removal of surrounding soft tissues and preparation of uterine vein(s) and uterine artery(ies), as necessary
- 0669T Backbench reconstruction of cadaver or living donor uterus allograft prior to transplantation; venous anastomosis, each
- 0670T Backbench reconstruction of cadaver or living donor uterus allograft prior to transplantation; arterial anastomosis, each
- 55400 Vasovasostomy, vasovasorrhaphy
- 57292 Construction of artificial vagina; with graft
- 58750 Tubotubal anastomosis
- S4011 In vitro fertilization; including but not limited to identification and incubation of mature oocytes, fertilization with sperm, incubation of embryo(s), and subsequent visualization for determination of development
- S4013 Complete cycle, gamete intrafallopian transfer (GIFT), case rate
- S4014 Complete cycle, zygote intrafallopian transfer (ZIFT), case rate
- S4015 Complete in vitro fertilization cycle, not otherwise specified, case rate
- S4016 Frozen in vitro fertilization cycle, case rate
- S4017 Incomplete cycle, treatment cancelled prior to stimulation, case rate
- S4018 Frozen embryo transfer procedure cancelled before transfer, case rate
- S4020 In vitro fertilization procedure cancelled before aspiration, case rate
- S4021 In vitro fertilization procedure cancelled after aspiration, case rate
- S4022 Assisted oocyte fertilization, case rate
- S4023 Donor egg cycle, incomplete, case rate
- S4025 Donor services for in vitro fertilization (sperm or embryo), case rate
- S4026 Procurement of donor sperm from sperm bank
- S4028 Microsurgical epididymal sperm aspiration (MESA)
- S4035 Stimulated intrauterine insemination (IUI), case rate
- S4042 Management of ovulation induction (interpretation of diagnostic tests and studies, nonface-to-face medical management of the patient), per cycle

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