

# Medical Policy Infertility Services/Assisted Reproductive Services

Policy Number: 029

	Commercial and Qualified Health Plans*	Mass General Brigham ACO	Medicare Advantage	OneCare	Senior Care Options (SCO)
Authorization required	Х		Χ	Х	Х
No notification or			X		
authorization			(89398)		
Not covered		X			

<sup>\*</sup>Not all commercial plans cover this service, please check plan's Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments to verify coverage.

# Contents

Overview	2
Coverage Guidelines	2
Covered Services/Procedures	2
General Eligibility Coverage Criteria for Treatment of Infertility	3
Service-Specific Coverage	5
Artificial Insemination (AI)/Intrauterine Insemination (IUI)	5
Conversion from IUI to In Vitro Fertilization (IVF)	5
In Vitro Fertilization (IVF)	5
In Vitro Fertilization (IVF) for Members not in Active Infertility Treatment	6
Frozen Embryo Transfer (FET)	6
Donor Egg Services	6
Cryopreservation of Eggs/Embryos	7
Cryopreservation of Ovarian Tissue	7
Assisted Reproductive Technology (ART) when using a Surrogate/Gestational Carrier	7
Intracytoplasmic Sperm Injection (ICSI)	8
Donor Sperm or Therapeutic Donor Insemination (TDI) Services	8
Microsurgical Epididymal Sperm Aspiration (MESA)	8
Testicular Sperm Extraction (TESE)	9
Cryopreservation of Sperm	9
Individuals with a Sterilization Reversal	9
Exclusions	10
Medicare Variation	11
MassHealth Variation	11
OneCare and SCO Variation	12
Definitions	12
Relevant Regulation	13
Related Policies	14
Codes	14
Summary of Evidence	15
Effective Date	17
References	20



# **Overview**

The purpose of this document is to describe the clinical coverage criteria that Mass General Brigham Health Plan utilizes to determine medical appropriateness for assisted reproductive services for those diagnosed with infertility. This document does not address the coverage or criteria for the treatment of the underlying medical condition causing the infertility.

Infertility is the condition of an individual who is unable to conceive or produce conception during a period of one year if the member is younger than 35 or during a period of six months if the member is 35 years of age or older. For the purposes of meeting the criteria of infertility in this section, if a person conceives but is unable to carry that pregnancy to live birth, the period of time the member attempted to conceive prior to achieving that pregnancy shall be included in the calculation of 1 year or 6-month period as applicable (M.G.L. Chapter. 175, section 47H and 211 CMR 37.09).

Assisted reproductive services are also covered under some circumstances for members without infertility. See the Mass General Brigham Health Plan policy <u>Fertility Services/Assisted Reproductive Services</u>.

Mass General Brigham Health Plan only provides coverage for IVF medications if the IVF or medicated IUI services have been approved.

# **Coverage Guidelines**

Mass General Brigham Health Plan covers assisted reproductive services only for members who are of an age at which natural fertility is expected. Mass General Brigham Health Plan does not cover assisted reproductive services for age-related decline, even if the member also has a medical-related cause of infertility. Members with uteri/ovaries greater than or equal to 44 years of age are not eligible for assisted reproductive services because spontaneous conception resulting in live birth is rare in women 44 years and older.

When the member's plan includes treatment for infertility, Mass General Brigham Health Plan covers medically necessary expenses for the non-experimental treatment of infertility to the same extent that benefits are provided for other medically necessary services and prescription medications.

The infertility treatment requested must be non-experimental, recognized as the community standard of practice in Massachusetts, and meet the criteria established by the American Society for Reproductive Medicine, the American College of Obstetrics and Gynecology, or the Society of Assisted Reproductive Technology.

Treatment should include thorough review of clinical history, lab values including sexually transmitted infection (STI) testing, uterine and fallopian tube anatomy (as appropriate) and documentation of immunity to varicella, rubella, and measles. Services must be authorized by Mass General Brigham Health Plan and delivered in accordance with medical necessity determinations.

Mass General Brigham Health Plan does not provide coverage for the treatment of infertility for MassHealth members, and members of certain Custom Plans. To determine to what extent a Custom Plan covers assisted reproductive services, please refer to the Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments for the given plan.

# **Covered Services/Procedures**

Covered services and procedures include, but are not limited to:

- Artificial Insemination (AI)/Intrauterine insemination (IUI);
- Conversion from IUI to In Vitro Fertilization (IVF);



- In Vitro Fertilization (IVF);
- Frozen embryo transfer (FET);
- Intra-Cytoplasmic Sperm Injection (ICSI);
- Donor Egg for Infertility;
- Donor Sperm or Therapeutic Donor Insemination (TDI) Services for Infertility;
- Microsurgical Epididymal Sperm Aspiration (MESA);
- Testicular Sperm Extraction (TESE);
- Cryopreservation of Embryos/Eggs;
- Cryopreservation of Sperm;
- Cryopreservation of Ovarian Tissue;
- Sperm, egg and/or inseminated egg procurement and processing, and banking of sperm, eggs, or embryos when they will be used by the member, to the extent such costs are not covered by the donor's insurer, if any;
- Assisted Hatching; and
- Ovulation kits: Coverage provided with prescription for up to three kits to support authorized AI/IUI.

# **General Eligibility Coverage Criteria for Treatment of Infertility**

Mass General Brigham Health Plan covers medically necessary assisted reproductive services when a member meets criteria for the service-specific assisted reproductive service that is requested and the general eligibility criteria for treatment of infertility, which are as follows:

- 1. The member must otherwise be an individual with whom fertility would be expected.
- 2. The member has ovaries and infertility, as demonstrated by one of the following:
  - a. The member has regularly attempted to conceive with a partner who has testes/sperm, but has been unable to conceive or produce conception during a one-year period, or for members at least 35 years of age for a period of six months (inclusive of time attempting to conceive a pregnancy that results in a miscarriage), or
  - b. For members with uteri/ovaries but without exposure to sperm, the member has been unable to conceive despite completion of six AI/IUI cycles performed by a qualified specialist using donor sperm with normal semen analysis parameters, or for members at least 35 years of age completion of three AI/IUI cycles, or
  - c. The member has oligo-ovulation or anovulation treated with medication for at least 6 months, or for members at least 35 years of age at least 3 months, or
  - d. The member has one of the following causes of infertility:
    - i. tubal factor infertility, such as bilateral Fallopian tube obstruction, or
    - ii. stage 3 or 4 endometriosis, or
    - iii. partner with severe male factor infertility, as defined in 7b, below.



#### 3. Ovarian Reserve Assessment Criteria:

- a. Members with ovaries less than 40 years old should have ovarian reserve submitted by menstrual history and results from day 3 Follicle Stimulating Hormone (FSH) and Estradiol levels obtained within 2 years.
- b. Members with ovaries at least 40 years of age must demonstrate adequate ovarian reserve evidenced by menstrual history and results from any of the following:
  - Clomiphene Citrate Challenge Test (CCCT) within the past 6 months by showing a Day 3
    FSH level less than 15 mIU/ml, Day 3 Estradiol Level less than 80 pg/mL, and Day 10 FSH
    level less than 15 mIU/ml; or
  - ii. A CCCT within the parameters above performed within the past 12 months, and a Day 3 FSH level less than 15 mIU/ml and Day 3 Estradiol Level less than 80 pg/mL performed within the past 6 months; or
  - iii. AMH level greater than 1.0 mg/mL or antral follicle count greater than 6 within the past 12 months, and Day 3 FSH less than 15 mlU/mL within the past 6 months.
- c. A member with FSH greater than or equal to 15 mIU/ml at any time after her 40<sup>th</sup> birthday is ineligible for IVF, donor egg, or ICSI.

#### 4. Anatomy Assessment:

- a. With any AI/IUI request, tubal patency and adequate uterine contours must be demonstrated by either a hysterosalpingogram, or laparoscopy/hysteroscopy performed within the past 2 years.
- b. With any IVF, FET, or donor egg request, adequate uterine cavity evaluation must be documented by either one of the tests above or by sonohysterogram or hysteroscopy performed within the past 2 years.
- 5. If the member or partner was a smoker/vaper within the last year, there must be documentation of urine or serum negative cotinine levels within a month of requested service.
- 6. A semen analysis within the past year must be submitted if partnered and applicable.
  - a. A normal fertility threshold based on WHO 6<sup>th</sup> edition 2021 (i.e., semen volume 1.5 ml, sperm concentration 15 million/ml, sperm total 40 million, 40% motility, and 4% normal morphology by Kruger classification or morphology of 30% by WHO 6<sup>th</sup> edition classification).
  - b. Severe male factor infertility is defined with the following parameters documented on 2 semen analyses showing:
    - i. Less than 10 million total motile sperm/ejaculate (pre-wash specimen); or
    - ii. Less than 3 million total motile sperm (post-wash specimen); or
    - iii. Less than or equal to 2% normal forms (Strict Kruger Morphology); or
  - c. If the sample is abnormal, a second sample within the past year must be obtained, and if it remains abnormal, an evaluation and treatment of reversible causes is recommended including smoking cessation for at least 3 months, if applicable. Mass General Brigham Health Plan requires a Urology consult for cases of severe male factor infertility. Cases of moderate male factor infertility do not require a urology consult.
  - d. If the partner has undergone a vasectomy reversal, two semen analyses in the past 3 months must be submitted to demonstrate continued success of the reversal and normal fertility



threshold, in addition to meeting the service-specific criteria for individuals who have had a reversal of prior sterilization.

- 7. With any infertility treatment request, documentation of all prior treatment and cycle details, including pre- and post-wash semen analyses, must be submitted.
- 8. There is a greater than 5% probability that infertility treatment being requested will result in a live birth using the member's own eggs based on clinical history including: pregnancy history, menopausal status, diagnosis, BMI, semen analysis and response to previous cycles and infertility treatments, or the member must meet criteria for donor egg.

# **Service-Specific Coverage**

# Artificial Insemination (AI)/Intrauterine Insemination (IUI)

Mass General Brigham Health Plan covers medically necessary AI/IUI and associated medications for treatment of infertility when <u>General Eligibility Coverage Criteria</u> 1-8 are met, and there is documentation of the following:

- 1. At least one patent Fallopian tube, normal ovary, and uterine cavity evaluation;
- 2. Spontaneous ovulation or adequate ovarian reserve testing;
- 3. Any one of the following:
  - a. Unexplained infertility
  - b. Anovulation in the absence of primary ovarian insufficiency/premature ovarian failure
  - c. Mild to moderate endometriosis
  - d. Cervical factors
  - e. Mild to moderate male factor infertility (i.e., with abnormal semen analysis but at least a sperm concentration of 10 mil/ml; total sperm count 20 million; motility of 20%; morphology 2% by strict Kruger classification or morphology 20% by WHO 6<sup>th</sup> edition classification; total motile sperm of at least 10 million; and total motile sperm of at least 5 million on a washed sample if performed);
  - f. Medically necessary use of frozen sperm with normal fertility threshold parameters.

#### Conversion from IUI to In Vitro Fertilization (IVF)

Mass General Brigham Health Plan covers medically necessary conversion from IUI to IVF due to inadvertent ovarian hyperstimulation when the IUI cycle met IUI criteria, and all of the following are met:

- 1. Current IUI cycle has resulted in estradiol level of greater than or equal to 800 pg/ml.
- 2. Current IUI cycle has resulted in production of at least 5 follicles greater than 13 mm in diameter.

#### In Vitro Fertilization (IVF)

Mass General Brigham Health Plan covers medically necessary IVF for treatment of infertility when <u>General Eligibility Coverage Criteria</u> 1-8 are met, with the following conditions:

- 1. If severe male factor infertility is present, a urology consultation is required.
- 2. Members with severe premature ovarian failure characterized by age less than 40, amenorrheic for 6 months, and a menopausal FSH level OR primary ovarian insufficiency characterized by irregular menses for greater than 4 months (without another endocrine disorder) and a diagnosis of functional hypogonadotropic hypogonadism/functional hypothalamic amenorrhea are not eligible for IVF using their own eggs but can be considered for donor egg.



Mass General Brigham Health Plan expects that standard medication doses for stimulation be used and that all good quality embryos be frozen for future use. Mass General Brigham Health Plan covers cryopreservation up to two years for the remaining embryos.

- 3. When there are at least 3 cryopreserved embryos from a member less than or equal to age 37, or at least 4 from a member greater than or equal to age 38, these must be used prior to any request for further IVF cycles.
- 4. No more than one IVF cycle may be approved at a time.
- 5. Single Embryo Transfer (SET)
  - a. Mass General Brigham Health Plan requires SET for the first two IVF cycles when at least 2 good-quality embryos are available at the time of transfer for members less than 35 years of age.
  - b. Mass General Brigham Health Plan requires SET for the first IVF cycle when at least 2 good-quality embryos are available at the time of transfer for members aged 35–37.
  - c. Mass General Brigham Health Plan does not require SET for a member over the age of 37.

# In Vitro Fertilization (IVF) for Members not in Active Infertility Treatment

Mass General Brigham Health Plan covers one cycle of IVF for the purpose of egg retrieval, processing and fertilization and a single cryopreservation of eggs/embryos for up to two years, when there is documentation that a member will be undergoing medical or surgical treatment (e.g., chemotherapy, radiation, gender affirming treatment), that is likely to result in permanent infertility. In this case the member and/or couple do not need to be already receiving Mass General Brigham Health Plan-authorized infertility services. This does not include voluntary sterilization or past voluntary sterilization.

Mass General Brigham Health Plan does not cover these services for age-related decline in fertility. Members age 40 and older must demonstrate adequate ovarian reserve as per General Eligibility Coverage Criteria 3b and 3c. Members up to and including 44 years of age are not eligible for these services.

#### **Frozen Embryo Transfer (FET)**

Mass General Brigham Health Plan covers medically necessary FET when <u>General Eligibility Coverage Criteria</u> 4b, 5, and 8 are met, and additionally:

- 1. The request is not related to gestational carrier services (unless specified in Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments), and
- 2. One of the following two conditions is met:
  - a. Member has frozen embryos from a prior IVF or Donor Egg Cycle approved by Mass General Brigham Health Plan; or
  - b. Embryos were created while a patient was under an insurer other than Mass General Brigham Health Plan AND member met General Eligibility criteria 1-8 in this policy (either at the time of freezing or at the time of the request for FET).

## **Donor Egg Services**

Mass General Brigham Health Plan covers medically necessary donor egg services for treatment of infertility when fertility is naturally to be expected, when the member meets all <u>General Eligibility Coverage Criteria</u>, and one of the following is met:

- 1. Premature ovarian failure with onset and diagnosis prior to age 40 (with either a Day 3 FSH or a random FSH if menopausal and amenorrheic of greater than 20 mlU/ml prior to age 40), or
- 2. Congenital or surgical absence of ovaries, or



- 3. Has failed IVF due to poor embryo quantity or quality, or
- 4. IVF is felt to offer ≤5% probability of live birth.

Donor egg services are subject to the following conditions:

- 1. Treatment of age-related decline in fertility is excluded. Donor egg services are not covered for members at least 44 years of age, or for members greater than or equal to age 40 with inadequate ovarian reserve (see General Eligibility Coverage criterion 3b).
- 2. Anonymous or designated donors must be less than or equal to 35 years of age, or between the ages of 36 and 39 with normal ovarian reserve as demonstrated by a normal ovarian reserve criteria as outlined in General Eligibility criteria above. Those who are greater than or equal to 40 years of age are not generally appropriate candidates to donate oocytes or embryos.
- 3. When donor egg coverage criteria are met, the cycle is authorized for up to 6 months. If the donor egg procedure is not performed, a new request with updated clinical information must be submitted for authorization.
- 4. Coverage for the embryo recipient (Mass General Brigham Health Plan member) includes medications to support implantation if the member has a prescription drug benefit, egg insemination, the embryo transfer procedure, member monitoring, and cryopreservation of remaining embryos up to two years.
- 5. Coverage for the egg donor is limited to monitoring up to egg retrieval and the egg retrieval procedure, unless the embryo recipient has Mass General Brigham Health Plan prescription drug coverage in which case medications to stimulate the donor's ovaries and to induce ovulation are also covered.

## **Cryopreservation of Eggs/Embryos**

Mass General Brigham Health Plan covers cryopreservation and up to two years' storage when authorized in accordance with this policy and when one of the following criteria is met:

- 1. The member is receiving Mass General Brigham Health Plan-authorized IVF or Donor Egg services and has embryos which should not be transferred into the uterus during the current cycle due to:
  - a. The high risk of multiple gestations from the transfer of an excessive number of available embryos; or
  - b. The high probability of an adverse impact on the member's health and well-being, e.g., severe hyperstimulation syndrome.
- 2. The member is receiving Mass General Brigham Health Plan-authorized IVF, and there are unfertilized mature eggs due to an unexpected lack of sperm for fertilization; or
- 3. The member will be undergoing medical or surgical treatment (e.g., chemotherapy, radiation, gender affirmation, etc.) excluding voluntary sterilization that is likely to result in permanent infertility, and Mass General Brigham Health Plan has authorized IVF for stimulation and retrieval. Cryopreservation of eggs/embryos will be covered for up to two years from the time of the egg retrieval.

# **Cryopreservation of Ovarian Tissue**

Mass General Brigham Health Plan covers cryopreservation and up to two years' storage when authorized, and the member will be undergoing gonadotoxic therapy that is likely to render the member permanently infertile.

#### Assisted Reproductive Technology (ART) when using a Surrogate/Gestational Carrier

Mass General Brigham Health Plan will authorize one cycle of oocyte stimulation, retrieval, and fertilization for members who meet <u>General Eligibility Criteria</u> 1, 3, 5, 6, 7, and 8, and:



- 1. The member has a clear medical contraindication to pregnancy due to an uncorrectable structural uterine abnormality or a life-threatening condition (documentation required), and
- 2. The member is using their own oocytes and self-paying for a gestational carrier.

Use of donor egg(s) with a gestational carrier or transfer of embryo(s) to a gestational carrier is not covered (unless specified in the member's Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments) as the member is not physically treated in this instance. Services related to implantation (transfer, pre-pregnancy costs, cryopreservation) and pregnancy-related services for the gestational carrier are not covered.

# **Intracytoplasmic Sperm Injection (ICSI)**

Mass General Brigham Health Plan covers medically necessary ICSI when the member meets coverage criteria for IVF, and there is documentation of at least one of the following:

- 1. Partner has had urology consultation for severe male factor infertility (a urology consult is required) documented on 2 semen analyses showing:
  - a. Less than 10 million total motile sperm/ejaculate (pre-wash specimen); or
  - b. Less than 3 million total motile sperm (post-wash specimen); or
  - c. Less than or equal to 2% normal forms (Strict Kruger Morphology).
- 2. Total failed fertilization or near total failed fertilization (less than 50%) of mature eggs on a prior IVF cycle with standard insemination.
- 3. Need for coverage of preimplantation genetic testing (PGT). Please refer to Mass General Brigham Health Plan Medical Policy for Preimplantation Genetic Testing. For these cases, there is no need to document a second semen analysis or urology consult.
- 4. Need to fertilize cryopreserved eggs.
- 5. ICSI is covered on the day of IVF egg retrieval if the post processing semen analysis of non-donor non-frozen sperm on that day meets the ICSI coverage criteria noted immediately above. Retrospective authorizations will be allowed.

Note: ICSI is not authorized for any IVF cycle using donor sperm since it is expected that normal quality donor sperm will be used.

Note: If sperm are to be used from MESA or TESE procedures, sufficient sperm quality and quantity for a successful ICSI and fertilization, and for a > 5% live birth probability must be documented before a request for IVF/ICSI is evaluated and authorized.

#### **Donor Sperm or Therapeutic Donor Insemination (TDI) Services**

Mass General Brigham Health Plan covers normal quality donor sperm or TDI services for a Mass General Brigham Health Plan member who meets <u>General Eligibility Coverage Criteria</u> and has a partner diagnosed with moderate to severe male factor infertility as defined in the IVF section above. Coverage is limited to no more than one vial per IUI or IVF cycle.

Note: Please check plan benefit documents to confirm coverage beyond what is stated above.

# Microsurgical Epididymal Sperm Aspiration (MESA)

Mass General Brigham Health Plan covers one MESA per lifetime for a member with azoospermia and normal testicular function evidenced by normal testes exam, FSH, and testosterone, and who has congenital bilateral



absence of vas deferens (CBVAD), stricture of the vas deferens, atrophy/fibrosis of the spermatic cord/vas deferens, or infertility due to extra testicular obstructive causes (excluding that resulting from prior sterilization or sterilization reversal procedures).

# <u>Testicular Sperm Extraction (TESE)</u>

Mass General Brigham Health Plan covers one TESE per lifetime for a member with non-obstructive azoospermia that is not due to suppression of sperm production by anabolic steroids, and when the azoospermia is not amenable to other treatment such as hormonal therapy for hypogonadotropic hypogonadism. There must be a Y chromosomal microdeletion assay and karyotype prior to TESE, to eliminate the possibility of genetic traits that would predict the failure of sperm retrieval.

# **Cryopreservation of Sperm**

Mass General Brigham Health Plan covers cryopreservation and up to two years' storage for a member who meets one of the following criteria:

- 1. The member has been diagnosed with a medical condition, not a result of previous voluntary sterilization, which requires that sperm be obtained directly via a Mass General Brigham Health Planauthorized MESA or TESE procedure for ongoing infertility treatment.
- 2. The member has a neurological or psychological condition, not a result of previous voluntary sterilization, which interferes with the ability to produce a sperm sample on the day of a Mass General Brigham Health Plan-authorized infertility procedure. The member must have a confirmed diagnosis that requires that sperm be obtained in advance and cryopreserved for ongoing infertility treatment.
- 3. The member will be undergoing medical or surgical treatment (e.g., chemotherapy, radiation, gender affirmation) excluding voluntary sterilization that is likely to result in permanent infertility. In this case the member and/or couple do not need to already be receiving Mass General Brigham Health Planauthorized infertility services. There must be a greater than 5% probability of a future live birth using the member's cryopreserved sperm. Cryopreservation of sperm will be covered for up to two years from the time of the sperm retrieval.

#### **Individuals with a Sterilization Reversal**

Medically necessary infertility services are authorized for members who have undergone successful reversal of previous voluntary sterilization procedures (e.g., vasectomy or tubal ligation) only when:

- 1. There is documentation of:
  - a. For a vasectomy reversal, a semen analysis with a normal fertility threshold (as noted in <u>General Eligibility Coverage Criteria</u>) to document the success of the reversal, followed by a memberage-applicable period of attempting natural conception, and then two semen analyses within 3 months of the request for infertility services to demonstrate continued success of the reversal.
  - b. For a tubal ligation reversal, a post-surgical hysterosalpingogram (HSG) or chromotubation or hystero-salpingo contrast sonography (HyCoSy) demonstrating unilateral or bilateral free spill tubal patency, followed by a member-age-applicable period of attempting natural conception, and then results of an HSG or chromopertubation performed within 3 months of the request for infertility services demonstrating that post-operative scarring and tubal blockage have not occurred, and there have been no ectopic pregnancies since the reversal.
- 2. The member/couple otherwise meets all General Eligibility Coverage Criteria, and
- 3. The member's need for infertility services is clearly documented to be completely independent of the previous sterilization procedure.



# **Exclusions**

Mass General Brigham Health Plan does not provide coverage for infertility services for any condition/diagnosis/service not covered under this coverage criterion, including but not limited to:

- 1. Members who do not have an infertility benefit;
- 2. Coverage for undocumented infertility except for IUI as listed above;
- 3. Infertility services for members who are menopausal or perimenopausal or who are not naturally expected to be fertile, unless the woman is experiencing menopause at a premature age as noted in criteria above:
- 4. Services requested for the convenience, lifestyle, or personal preference of the member in the absence of medical necessity;
- 5. Infertility treatment with ≤5% chance of success for a live birth;
- 6. Donor sperm in the absence of a male partner; Please check plan benefit documents to confirm coverage.
- 7. Reversal of voluntary sterilization;
- 8. Infertility services (including but not limited to consultations, labs, radiology studies, infertility drugs, ART cycles, MESA, TESE and other services to assess and/or treat infertility in a member or a member's partner) requested as a result of a prior voluntary sterilization or unsuccessful sterilization reversal procedure;
- 9. Testicular Sperm Aspiration (TESA) procedure and all costs related to the procedure including but not limited to pathology screening, and facility and anesthesia charges;
- 10. Monitoring of non-authorized IUI cycles;
- 11. Cryopreservation of eggs, embryos, sperm, or ovarian tissue for convenience;
- 12. Storage of cryopreserved embryos, sperm, eggs, or ovarian tissue exceeding 2 years;
- 13. Cryopreservation and/or storage of testicular tissue;
- 14. Cryopreservation for the sole purpose of circumventing reproductive aging;
- 15. Infertility services when normal embryos have been or will be discarded because of elective gender selection;
- 16. Embryonic research;
- 17. IUI, IVF, or ICSI when using donor sperm that is not of normal quality;
- 18. Non-medical fees related to sperm procurement, (e.g., fee to a sperm donor for donation of sperm to a sperm bank);
- 19. Infertility medications for anonymous donor;
- 20. Coverage for donor egg services provided by an IVF center or other organization for use of the donor eggs or created embryos by multiple recipients;
- 21. Non-medical fees related to donor egg procurement: e.g., fee to a donor for donation of egg(s) to donor egg program, finder fees, broker fees, and legal fees;



- 22. Egg harvesting or other treatment incidental to an operative procedure required for an unrelated cause;
- 23. Coverage of donor sperm or the stimulation, retrieval, fertilization, or implantation of donor eggs and/or services when not used by either the member or the member's partner;
- 24. Reciprocal IVF when the member does not otherwise meet criteria for IVF unless otherwise specified in the member's Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments;
- 25. Surrogacy/Gestational Carrier Services unless those outlined above;
- 26. Sperm, egg and/or inseminated egg procurement and processing, and banking of sperm or inseminated eggs, to the extent such costs are covered by the donor's insurer;
- 27. Infertility services when an individual or couple is using illicit substances or abusing substances known to negatively interfere with fertility or fetal development (e.g., opiates, cocaine, or alcohol). Results of serum or urine drug screening may be requested before infertility services are authorized;
- 28. Infertility services for a member who smokes or has not abstained from smoking for at least 3 months;
- 29. Infertility services when a partner with male factor infertility smokes or has not abstained from smoking for at least 3 months;
- 30. Services provided to a gestational carrier, including, but not limited to transfer, impending pregnancy costs, or cryopreservation of embryos, whether or not the gestational carrier is a Mass General Brigham Health Plan member;
- 31. Use of donor egg with gestational carrier even when the gestational carrier is a Mass General Brigham Health Plan member;
- 32. Investigational experimental procedures or treatment not based on scientific body of evidence;
- 33. Coverage of Fertility medications if the IVF or medicated IUI services are not approved;
- 34. Assisted reproductive services when the infertile member is not the intended recipient of the services, unless specified in the member's Schedule of Benefits, Summary of Benefits and Coverage, Benefit Handbook, and/or amendments;
- 35. Assisted reproductive services for a member with ovaries/uterus who is age 44 or older.

#### **Medicare Variation**

Mass General Brigham Health Plan uses guidance from the Centers for Medicare and Medicaid Services (CMS) for medical necessity determinations for its Medicare Advantage plan members. National Coverage Determinations (NCDs), Local Coverage Articles (LCAs), and documentation included in the Medicare manuals are the basis for medical necessity determinations. When there is no guidance from CMS for the requested service, Mass General Brigham Health Plan's medical policies are used for medical necessity determinations. At the time of Mass General Brigham's most recent review, Medicare had no NCD or LCD for assisted reproductive services.

# **MassHealth Variation**

Mass General Brigham Health Plan uses guidance from MassHealth for medical necessity determinations for its Mass General Brigham ACO members. When there is no guidance from MassHealth for the requested service, Mass General Brigham Health Plan's medical policies are used for medical necessity determinations. **At the time** 



of Mass General Brigham Health Plan's most recent policy review, MassHealth did not cover assisted reproductive services.

# **OneCare and SCO Variation**

Mass General Brigham Health Plan uses guidance from CMS for medical necessity determinations for its OneCare and SCO plan members. NCDs, LCDs, LCAs, and documentation included in the Medicare manuals are the basis for medical necessity determinations. When there is no guidance from CMS for the requested service, Mass General Brigham Health Plan uses medical necessity guidelines from MassHealth. When there is no guidance from CMS or from MassHealth, Mass General Brigham Health Plan's medical policies are used for medical necessity determinations.

# **Definitions**

Anovulation: Failure to ovulate.

Artificial Insemination (AI): Placement of semen into the vagina with a syringe rather than through intercourse.

<u>Assisted Hatching (AH):</u> Embryo hatching is initiated in the laboratory by thinning the surrounding membrane around the embryo, enhancing implantation.

<u>Assisted Reproductive Services:</u> A range of medical procedures designed to help individuals or couples achieve pregnancy and childbirth.

Azoospermia: A lack of sperm in the seminal fluid.

<u>Clomiphene Challenge Test (CCCT):</u> A test to assess ovarian reserve usually used in members with ovaries over 40 years of age. The test measures FSH and estradiol and the FSH response to the oral administration of 100 mg of clomiphene citrate for 5 days of the cycle-on-cycle day 5-9 with FSH measured on cycle Days 3 and 10 and estradiol measured on cycle Day 3.

<u>Cryopreservation:</u> Gametes or Embryos from one cycle are preserved for future use by storing them at very low temperatures.

<u>Cycle:</u> The start of menses followed by ovarian stimulation, egg retrieval, embryo transfer, and pregnancy testing.

Egg Retrieval: The removal of eggs from one or more ovarian follicles.

Embryo Transfer: The transfer of one or more embryos into the uterus or fallopian tube.

Frozen Embryo Transfer (FET): Transfer to the uterus of embryos that have been previously cryopreserved.

<u>Infertility:</u> The condition of an individual who is unable to conceive or produce conception during a period of one year if the member with uterus/ovaries is age 35 or younger or during a period of six months if the member with uterus/ovaries is over age 35. For the purposes of meeting the criteria of infertility in this section, if a person conceives but is unable to carry that pregnancy to live birth, the period of time she attempted to conceive prior to achieving that pregnancy shall be included in the calculation of one year or 6-month period as applicable (211 CMR 37.00: M.G.L. chs. 175, 176A, 176B, 176D and 176G; St. 1987, c. 394).

For members without exposure to sperm, infertility is determined by the inability to conceive after six AI/IUI cycles are performed by a qualified specialist using normal quality donor sperm.

<u>Intrauterine Insemination (IUI)</u>: A fertility treatment that uses a catheter to place a number of washed sperm directly into a woman's uterine cavity in an effort to achieve pregnancy.



Intracytoplasmic Sperm Injection (ICSI): Injection of sperm into an egg for fertilization.

<u>Single embryo transfer (SET):</u> Transfer of a single embryo at either the cleavage stage (day 2 or 3 after an egg retrieval) or blastocyst stage (day 5 or 6 after an egg retrieval), that is selected from a larger number of available embryos.

# **Relevant Regulation**

Division of Insurance Infertility benefits, 211 CMR 37.00

## Infertility (37.03)

The condition of an individual who is unable to conceive or produce conception during a period of one year if the female is younger than age 35 or during a period of six months if the female is age 35 or older. For the purposes of meeting the criteria of infertility in this section, if a person conceives but is unable to carry that pregnancy to live birth, the period of time she attempted to conceive prior to achieving that pregnancy shall be included in the calculation of one year or 6-month period as applicable.

## Scope of Coverage (37.04)

Insurers shall provide benefits for required infertility procedures, as described in 211 CMR 37.05, which are furnished to an insured, covered spouse and/or other covered dependent.

Insurers shall not be required to provide benefits for services furnished to a spouse or dependent if the spouse or dependent is not otherwise covered by the insurer, except as provided in 211 CMR 37.05(4).

# Required Infertility Benefits (37.05)

Subject to any reasonable limitations as described in 211 CMR 37.09, insurers shall provide benefits for all non-experimental infertility procedures including, but not limited to:

- I. Artificial Insemination (AI) and Intrauterine Insemination (IUI);
- II. In Vitro Fertilization and Embryo Transfer (IVF-ET);
- III. Gamete Intrafallopian Transfer (GIFT);
- IV. Sperm, egg and/or inseminated egg procurement and processing, and banking of sperm or inseminated eggs, to the extent such costs are not covered by the donor's insurer, if any.
- V. Intracytoplasmic Sperm Injection (ICSI) for the treatment of male factor infertility;
- VI. Zygote Intrafallopian Transfer (ZIFT);
- VII. Assisted Hatching;
- VIII. Cryopreservation of eggs.

#### Prescription Drugs (37.06)

Insurers shall not impose exclusions, limitations, or other restrictions on coverage for infertility-related drugs that are different from those imposed on any other prescription drugs.

# Optional Infertility Benefits (37.07)

No insurer shall be required to provide benefits for:

- I. Any experimental infertility procedure, until the procedure becomes recognized as non-experimental;
- II. Surrogacy;



## III. Reversal of Voluntary Sterilization;

# Prohibited Limitations on Coverage (37.08)

No insurer shall impose deductibles, copayments, coinsurance, benefit maximums, waiting periods, or any other limitations on coverage for required infertility benefits which are different from those imposed upon benefits for services not related to infertility.

No insurer shall impose pre-existing condition exclusions or pre-existing condition waiting periods on coverage for required infertility benefits. No insurer shall use any prior diagnosis of or prior treatment for infertility as a basis for excluding, limiting, or otherwise restricting the availability of coverage for required infertility benefits.

No insurer shall impose limitations on coverage based solely on arbitrary factors, including but not limited to number of attempts or dollar amounts.

## Permissible Limitations on Coverage (37.09)

Limitations on coverage shall be based on clinical guidelines and the insured's medical history. Clinical guidelines shall be maintained in written form and shall be available to any insured upon request. Standards or guidelines developed by the American Society for Reproductive Medicine, the American College of Obstetrics and Gynecology or the Society for Assisted Reproductive Technology may serve as a basis for these clinical guidelines.

# **Related Policies**

- Fertility Services/Assisted Reproductive Services Medical Policy
- Preimplantation Genetic Testing Medical Policy

# **Codes**

The following codes are included below for informational purposes only; inclusion of a code does not constitute or imply coverage or payment.

Authorized CPT/HCPCS Codes	Code Description
89389	Unlisted reproductive medicine laboratory procedures; includes: cryopreservation: immature oocytes, ovarian reproductive tissue
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	
S4027	Storage of previously frozen embryos	
S4028	Microsurgical epididymal sperm aspiration (MESA)	
S4030	Sperm procurement and cryopreservation services; initial visit	
S4031	Sperm procurement and cryopreservation services; subsequent visit	
S4035	Stimulated intrauterine insemination (IUI), case rate	
S4037	Cryopreserved embryo transfer, case rate	
S4040	Monitoring and storage of cryopreserved embryos, per 30 days	
S4042	Management of ovulation induction (interpretation of diagnostic tests and studies, nonface-to-face medical management of the patient), per cycle	

# **Summary of Evidence**

Ovarian Tissue Transplantation: Techniques, Outcomes, and Professional Guidelines

Ovarian tissue transplantation (OTT) has emerged as a pivotal method for fertility preservation, especially for women undergoing treatments that jeopardize ovarian function. This technique involves transplanting cryopreserved ovarian tissue back into the patient to restore endocrine function and fertility (Dolmans et al., 2021).

Techniques of Ovarian Tissue Transplantation

There are two primary approaches for autotransplantation of human ovarian tissue (Demeestere et al., 2009):

Orthotopic Transplantation: This involves grafting ovarian tissue back to its natural location within the pelvic cavity. The primary advantage of orthotopic transplantation is the possibility of natural conception, as the grafted tissue is situated anatomically to interact with the fallopian tubes and uterus (Demeestere et al., 2009).

<u>Heterotopic Transplantation:</u> In this approach, ovarian tissue is transplanted to an alternative site, commonly subcutaneous areas such as the forearm or abdominal wall. Heterotopic transplantation offers several advantages:



- Simplified Surgical Procedure: Easy transplantation procedure (Demeester et al., 2009).
- Ease of Access: The grafts are easily accessible for monitoring and oocyte retrieval, facilitating assisted reproductive technologies (Demeestere et al., 2009).
- Beneficial Effect on Endocrine Function: No limitation on number of fragments transplanted (Demeestere et al., 2009).

However, a notable limitation of heterotopic transplantation is that it does not permit natural conception. Therefore, assisted reproductive technologies, such as in vitro fertilization (IVF), are typically required to achieve pregnancy following this method (Demeestere et al., 2009).

#### Clinical Outcomes and Success Rates

Recent studies have provided valuable insights into the success of OTT:

- Dolmans et al. (2021): This comprehensive review analyzed data from 285 women across five leading European centers who underwent ovarian tissue transplantation. The study reported that ovarian function was restored in 93% of patients following transplantation. Success rates varied based on the type of transplantation:
  - Orthotopic Transplantation: Among 280 patients who underwent orthotopic transplantation, 26% of them became pregnant and gave birth to a total of 95 infants. The conception rate between women who conceived naturally vs those who underwent IVF was comparable: 40% and 36% respectively.
  - Heterotopic Transplantation: No pregnancies were obtained among the five women who underwent only heterotropic transplantation.
  - Overall, the study demonstrated that OTT is both safe and effective, with no significant increase in adverse events or complications observed.
- Sheshpari et al. (2019): This systematic review analyzed 29 studies involving 210 patients aged between 22 and 49 years who underwent ovarian tissue transplantation. 181 of these patients were implanted with frozen ovarian tissue. The findings indicated no significant difference in function of grafted ovarian tissue whether it was fresh or frozen. In general, over 78% of patients experienced restoration of ovarian and endocrine function, with over 58% achieving pregnancy post-transplantation. The study underscores OTT as a viable approach for restoring hormonal function and fertility in patients at risk of ovarian failure.
- Shapira et al. (2020): In a multicenter retrospective cohort study, 60 patients underwent 70
  autotransplantations and met inclusion criteria. After transplantation, menstruation resumed in 94% of
  patients, and median follicle-stimulating hormone (FSH) levels decreased from 68 to 19 IU/mL. The
  study reported 50 pregnancies and 44 deliveries. The research highlights OTT as a safe procedure with
  acceptable pregnancy rates.
- Safrai et al. (2022): This study evaluated the effectiveness of transplanting small ovarian tissue fragments using a pipelle device. The pipelle group included four patients aged 19 to 28 years old. The control group consisted of 14 patients aged 21-30 years old. The pipelle group had 5 pregnancies and 4 live births. (One patient had two deliveries and one pregnancy was still ongoing at the time of writing.) In the control group, 8 patients achieved a total of 10 pregnancies and 18 live births. The findings demonstrate that this method may be effective for fertility preservation, offering a less invasive alternative to traditional techniques.



## **Professional Society Guidelines**

Recognizing the efficacy of OTT, several professional organizations have updated their guidelines:

- American Society for Reproductive Medicine (ASRM): Ovarian tissue banking is an acceptable fertilitypreservation technique no longer considered experimental. It is the only method to preserve fertility for
  prepubertal girls. Based on the current body of literature, ovarian tissue cryopreservation should be
  considered an established medical procedure, though it has limited effectiveness and should be offered
  to carefully selected patients. (ASRM, 2019)
- European Society of Human Reproduction and Embryology (ESHRE): Ovarian tissue cryopreservation is
  an alternative to preserve fertility in young patients at risk of premature ovarian insufficiency and should
  be offered to those undergoing moderate/high risk gonadotoxic treatment where oocyte/embryo
  cryopreservation is not feasible. It should probably not be offered to patients with low ovarian reserve
  or to those of advanced age. ESHRE considers ovarian tissue cryopreservation an innovative method for
  ovarian function and fertility preservation in postpubertal women. (ESHRE, 2020)
- American Society of Clinical Oncology (ASCO): Fertility preservation should be discussed with female
  patients of reproductive age or parents/guardians of children undergoing treatments that may affect
  fertility. Conversations should be individualized regarding available options, including ovarian tissue
  cryopreservation, prior to initiating such therapies. (Ohtay, 2018)

#### Conclusion

Ovarian tissue transplantation has evolved into a viable option for restoring ovarian function and fertility in women affected by gonadotoxic treatments. Both orthotopic and heterotopic transplantation techniques have shown promise, each with its own set of advantages and considerations. Ongoing research and adherence to updated clinical guidelines continue to refine these techniques, aiming to maximize patient outcomes.

# **Effective Date**

January 2026: Off-cycle review. Updated prior authorization table and table of contents and added variation for OneCare and SCO members.

September 2025: Off-cycle review. Criteria for frozen embryo transfer updated. Hyperlinks fixed. Code list updated. PA table updated. Code disclaimer updated. Coverage for cryopreservation of ovarian tissue for members undergoing gonadotoxic therapy added. Formatting fixed. Summary of evidence added. References updated. Reference to PESA deleted. Definition of Assisted Reproductive Services added. Need for urology consult addressing male factor infertility clarified. Policy title changed. First paragraph under Coverage Guidelines simplified to describe why there is an age limit on coverage for members with ovaries/uteri. July 2025: Annual review. Minor grammatical edits. Added exclusion for reciprocal IVF when IVF criteria are not met. Removed references to coverage for members who do not have a diagnosis of infertility or are not undergoing treatment likely to result in infertility. These coverage sections now appear in the Assisted Reproductive Services/Fertility Services medical policy.

January 2025: Off-cycle review. Clarified language in 4th exclusion above.

November 2024: Off-cycle review. Clarified Medicare Advantage language. Added MassHealth Variation. Clarified exclusions.

March 2024: Off-cycle review. The following changes were made:

- On Page 3: General Eligibility Criteria
  - o Added 2c
  - Redefined and clarified the language around the specific causes of infertility by adding 2d. I, II, III.
  - Under Ovarian Reserve Assessment criteria, added language to specify that time in which AMH testing needs to be done as seen in 3b. III.
  - Age limit applied to item 3c.



- On Page 4 under Subheading Artificial Insemination (AI)/Intrauterine Insemination (IUI), added clarifying language for members less than 44 years of age.
- On Page 5 Under IVF Coverage Criteria
  - language regarding infertility definition, tubal factor and endometriosis reordered to prior section.
  - Removed requirement on six cycle limit of IVF
  - Under Frozen Embryo Transfer (FET) language reordered, clarified and added 1. 2. and 3.
- On Page 6 under Donor Egg Services for Infertility; language reordered and clarified without substantive changes to criteria.
- On Page 7 Under ICSI, added language "Partner has had urology consultation" to #1
- On Page 9 under Individuals with a Sterilization Reversal section; added the following language to 1b. "and there have been no ectopic pregnancies since the reversal".

## July 2023: Annual review. The following changes were made:

- On Page 1: Added Medicare advantage to table.
- On Page 2: Removed statement that treatment must be provided by a Mass General Brigham Health Plan contracted provider.
- On Page 3:
  - Under 3a. Changed estradiol levels from 1-2 years to 2 years.
  - Under 3b. Added III.
  - o Removed Note regarding members unable to tolerate clomiphene.
  - o Under 4a. Minor edits. Criteria unchanged
  - Under 5: Added "vaper"
  - o Added 6b
- On Page 5: Under IVF Coverage Criteria, #2 and #4 Editorial refinements, intent unchanged.
- On page 6; Under Donor Egg Services, changed age from 42 to 43 years of age. Under Note: changed age from 43 to 44.
- On Page 10; Removed exclusion "cryopreservation and/or storage of ovarian tissue"
- On Page 11: Added Medicare Variation Language

# January 2023: Off-cycle review. The following changes were made:

- On Page 9: Under Surrogacy/Gestational Carrier, clarified language regarding transfer of embryo to gestational carrier. Under Service -Specific Infertility Coverage For Members With Testicles/Sperm section, added #5.
- On Page 13: Under Exclusions, added Assisted reproductive services when the infertile member is not the intended recipient.

# November 2022: Annual review. The following changes were made:

- Page 1: Changed policy number.
- Page 2: Added language under Coverage Guidelines.
- Page 3: Added language reflective of best practices in STD testing and immunization. Clarified General Eligibility Criteria.
- Page 5: Changed to: "Mass General Brigham Health Plan will require a Urology consult for cases of severe male factor infertility".
- Page 6: Added ovarian insufficiency language.
- Page 7: Coverage of FET clarified.
- Page 8: Changed egg donor language.
- Page 9: Clarified ICSI and donor sperm language.

#### August 2021: Annual review. The following changes were made:

Revised policy to reflect organ-specific language.



- Under Covered Services Section:
  - o Removed "Gamete Intra-Fallopian Transfer (GIFT)"; and "Zygote Intrafallopian Transfer (ZIFT)";
- Under General Eligibility Coverage Criteria
  - o Item 5. Added "measles"
  - Items 6 a. and 6 b. edited word from "must" to "should"
- Under Single Embryo Transfer (SET) in the 4<sup>th</sup> note: Removed words "In general", in the sentence "Mass General Brigham Health Plan covers a maximum of 6 IVF cycles per lifetime, when the member continues to meet criteria."
- Under "Cryopreservation of Eggs/Embryos" changed storage allowance from one to two years. Clarified this allowance throughout policy where applicable.
- Added Section Heading "Service-specific Infertility Coverage for Members with Uteri and Ovaries"
- Added Section Heading "Service-Specific Infertility Coverage for Members with Testicles/Sperm"
- Added Section Heading "Service-Specific Infertility Coverage All Members"
- Definitions section updated.

July 2020: Annual review. Policy revised to include:

- Revised Overview section; removed list of the preferred IVF brand medications.
- Revised Covered Services/Procedures to include Percutaneous epididymal sperm aspiration
- General Eligibility Coverage Criteria updated;
  - o added azoospermia as a causes of known infertility
  - Under anatomy section:
    - Added hystero-salpingo contrast sonography (HyCoSy)
    - Removed carrying capacity must be demonstrated
    - Revised language regarding hysteroscopy timeline to 2 years
- Revised Individuals with a Sterilization Reversal section to clarify female reversal to include hysterosalpingo contrast sonography (HyCoSy)
- Definitions section updated to include Azoospermia and Percutaneous epididymal sperm aspiration March 2019: Annual review. Changed name of policy to Assisted Reproductive Services/Infertility Services. Clarified definition of infertility in women without exposure to sperm. Under General Eligibility Coverage Criteria, revised language under #2a to remove "These Al/IUI cycles with normal quality donor sperm and associated sperm processing and infertility medications are not covered because infertility has not been established until the Al/IUI cycles have been completed..." Changed language regarding immunity to rubella and varicella, lab testing and BMI. Clarified coverage criteria under Artificial Insemination (Al)/Intrauterine Insemination (IUI) section. Under Intra-Cytoplasmic Sperm Injection (ICSI) section, added language regarding documentation requirements for ICSI with authorized PGT cycle. Under Donor Egg Services for Infertility section, in #2, increased threshold to age 35. Under Donor Egg/Sperm Services When There is a Risk of Transmitting a Genetic Disorder. Increased threshold to age 35. Under Cryopreservation of Eggs/Embryos section, edited language under #3 adding "or surgical treatment". Under Exclusions, edited #1 to include "except for IUI as listed above", and #3 removed "Al/IUI cycles". Removed exclusion for IVF only requiring cryopreservation of embryos. Removed requirement of female to meet General Eligibility requirements for TESE and MESA Updated references.

July 2018: Annual review. Added ovulatory dysfunction under General Eligibility Coverage Criteria 2 b. Added second note under General Eligibility Coverage Criteria. Added Hepatitis C to the #6 General Eligibility Coverage Criteria. Added "documentation of urine or serum negative cotinine levels within a month of requested service" under #8 General Eligibility Coverage Criteria. Added unilateral or bilateral in 1.b. under Individuals with a Sterilization Reversal. Added "and prior IVF cycles that resulted in live birth" under Single Embryo Transfer (SET) within the fourth note. Added language regarding coverage for gender reassignment under IVF For Member Not



in Active Infertility Treatment, Cryopreservation of Eggs/Embryos, and Cryopreservation of Sperm. Added section Surrogacy and Gestational Carrier. Updated references.

July 2017: Removed the restriction "Infertility services for female member with a BMI ≥40, or has not had a BMI < 40 for the past 3 months".

April 2017: Added coverage criteria indicating IVF/IUI medications are only covered if the IVF services are covered. Also added criteria for Single Embryo Transfer. Added definition of Single Embryo Transfer. Added exclusion.

November 2016: Annual review.

November 2015: Removed the condition that the intention is to transfer the eggs/embryos back to the member in order to meet IVF for members not in active infertility treatment but are undergoing medical treatment that renders them infertile.

July 2015: Added to general eligibility criteria that partners to be counseled re smoking risks, those with male factor to demonstrate smoking cessation of 3 months; and screening for infectious diseases. Added criteria for TESE; criteria for persons undergoing medical treatment that will render them permanently infertile. Clarified criteria for reversal of sterilization procedure and ICSI as well as made note that Mass General Brigham Health Plan expects with IVF that standard medication does be used and all good quality embryos be frozen. July 2014: Added "This document does not address treatment of underlying medical condition causing infertility" to overview; reversal of sterilization general eligibility criteria; IUI cycle limit, notes to IVF section regarding premature ovarian failure; cryopreservation up to 1 year and lifetime maximum of 6 cycles; criteria for MESA; exclusions for TESE, illicit substances, BMI> 40 and smoking; and regulation language. Changed: general eligibility criteria: added anatomy assessment, BMI, smoking and semen analysis and donor egg for infertility criteria.

February 2013: Modified definition of infertility, modified general infertility criteria, changed cryopreservation to be up to two years & minor edits for clarification.

January 2012: Added IUI conversion criteria; Amended Benefit Coverage documentation, converted to criteria. March 2004: Effective date.

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