Effective: October 1, 2020



Androgenic Agents –

Testosterone Replacement Therapy (TRT)

Medical policy no. 23.10.00-2

Note: New-to-market drugs in this class are non-preferred and subject to this prior authorization (PA) policy. Non-preferred agents in this class, require an inadequate response or documented intolerance due to severe adverse reaction or contraindication to at least TWO preferred agents. If there is only one preferred agent in the class documentation of inadequate response to ONE preferred agent is needed.

Background:

The Food and Drug Administration (FDA) approved testosterone products for testosterone replacement therapy in males with primary or secondary hypogonadism (congenital or acquired). Primary hypogonadism originates from a deficiency or disorder in the testicles. Secondary hypogonadism indicates a problem in the hypothalamus or the pituitary gland. Testosterone may also be used in the treatment of other conditions, such as delayed puberty, metastatic breast cancer, and gender dysphoria.

Medical necessity

Drug	Medical Necessity
 Testosterone Androderm (Transdermal patch, ER) AndroGel (Topical gel) 	Testosterone may be considered medically necessary when used for the following indications:
 generic (Topical solution) Fortesta (Topical gel) generic (Topical gel) Striant (Buccal patch, ER) 	 Testosterone Replacement Therapy (TRT) for adult males for the following conditions: Primary hypogonadism (congenital or acquired) Secondary hypogonadism (congenital or acquired)
 Testim (Topical gel) Testopel (Pellets) Vogelxo (Topical gel) Methyltestosterone Methitest (Oral tablet) 	 Biologic males with severely low testosterone who are symptomatic. HIV-associated weight loss Chronic, high-dose glucocorticoid-therapy Biologic males with osteoporosis or who are under 50 years old with low trauma fractures
 generic (Oral capsule) Testosterone enanthate generic (IM injection) Xyosted (Auto-injector) 	 Delayed puberty Metastatic breast cancer
 Testosterone undecanoate Aveed (Injectable solution) Jatenzo (Oral capsules) 	 Gender dysphoria (transgender health) For details, please see the Transgender Health Services section of the Physician-Related Services/Health Care Professional Services Billing Guide.
 Testosterone cypionate Depo-Testosterone (IM Injection) generic (IM injection) 	



Clinical policy:

Policy: Testosterone Replacement Therapy

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target body weight goal; OR
e. Chronic, high-dose glucocorticoid-therapy defined as more
than 5 mg/day of prednisone or equivalent daily for greater
than two (2) weeks
i. The following documentation is required for approval:
 diagnosis requiring glucocorticoid regimen;
2) current glucocorticoid regimen;
3) expected duration of therapy; OR
f. Biologic males with osteoporosis or who are under 50 with
low trauma fractures
i. The following documentation is required for approval:
1) diagnosis of osteoporosis or low trauma
fracture within the previous 12 months
2) patient is currently being treated for
osteoporosis or low trauma fracture; AND
5. Patient meets ALL of the following criteria:
a. Patient does not have ANY of the following contraindications
to testosterone therapy:
i. breast cancer or known or suspected prostate cancer
ii. elevated hematocrit (>50%)
iii. untreated severe obstructive sleep apnea
iv. severe lower urinary tract symptoms
v. uncontrolled or poorly-controlled heart failure
b. Patient has not experienced a major cardiovascular event (e.g.,
myocardial infraction, stroke, acute coronary syndrome, etc.) in
the previous 6 months
c. Patient does not have uncontrolled or poorly-controlled benign
prostate hyperplasia or is at a higher risk of prostate cancer
(e.g., elevation of PSA after initiating TRT)
If ALL criteria are met, then the request can be approved for the
appropriate duration for the indicated treatment:
Primary hypogonadism: approve 12 months
• Secondary hypogonadism: approve 12 months
Biologic males with severely low testosterone who are symptomatic:
approve 12 months
HIV-associated weight loss: approve 6 months
 Chronic, high-dose glucocorticoid-therapy: approve up to the duration
of the expected regimen of chronic, high-dose glucocorticoid-therapy
with a maximum of 12 months.
 Biologic males with osteoporosis or young men with low trauma
fractures: approve 12 months
Criteria (Reauthorization)
Testosterone may be approved for reauthorization when ALL of the
following are met:

	1. Patient continues to meets criteria 4 and 5 of the initial criteria above;			
	AND2. Patient has not experienced any severe adverse events due to			
	testosterone therapy; AND			
	3. Patient's most recent testosterone labs show that serum testosterone			
	concentration is in the normal range since starting therapy; AND			
	 Patient has documentation of positive clinical response as defined by the criteria below for each indication: 			
	a. HIV-associated weight loss: patient has shown an increase in			
	body weight and ONE of the following:			
	i. is not yet at target body weight goal; OR			
	ii. patient is still experiencing an episode (e.g., a			
	secondary infection) that is causing weight loss;			
	 b. Chronic, high-dose glucocorticoid-therapy: high-dose glucocorticoid therapy is continuing 			
	c. Biologic males with osteoporosis or who are under 50 years of			
	age and have experienced a low trauma fractures:			
	osteoporosis or low trauma fracture therapy is continuing			
	If ALL criteria are met, then the request can be approved for the			
	appropriate duration for the indicated treatment:			
	Primary hypogonadism: approve 12 months			
	Secondary hypogonadism: approve 12 months			
	Biologic males with severely low testosterone who are symptomatic: approve 12 months			
	 approve 12 months HIV-associated weight loss: approve 6 months 			
	 Chronic, high-dose glucocorticoid-therapy: approve up to the duration 			
	of the expected regimen of chronic, high-dose glucocorticoid-therapy			
	with a maximum duration of 12 months.			
	Biologic males with osteoporosis or who are under 50 years of age			
	and have experienced a low trauma fractures: approve 12 months			
Clinical Criteria				
Testosterone for treatment of	Testosterone may be considered medically necessary when patients meet			
delayed puberty	ALL of the following criteria:			
	1. Patient is male and 14 years of age or older; AND			
	2. Patient has received the diagnosis of delayed puberty that is NOT			
	secondary to a pathological cause; AND			
	3. Family history of delayed puberty has been evaluated to support			
	differential diagnosis of delayed puberty; AND4. Labs of recent serum LH, FSH, and testosterone are provided; AND			
	 Labs of recent serum En, FSH, and testosterone are provided; AND Patient must not have responded to "watchful waiting" with 			
	reassurance and psychological support in the previous 6 months			
	a. Non-response of "watchful waiting" may be demonstrated by			
	psychological concerns about delayed puberty and that			



	 delayed puberty cannot be addressed by reassurance and psychological support alone 6. Patient meets ALL of the following criteria: a. Patient does not have ANY of the following contraindications to testosterone therapy: i. breast cancer or known or suspected prostate cancer ii. elevated hematocrit (>50%) iii. untreated severe obstructive sleep apnea iv. severe lower urinary tract symptoms v. uncontrolled or poorly-controlled heart failure b. Patient has not experienced a major cardiovascular event (e.g. myocardial infraction, stroke, acute coronary syndrome, etc.) if the previous 6 months c. Patient does not have uncontrolled or poorly-controlled benig prostate hyperplasia or is at a higher risk of prostate cancer (e.g., elevation of PSA after initiating TRT) If ALL criteria are met, then the request can be approved for 12 months 			
	Criteria (Reauthorization)			
	Testosterone may be approved for reauthorization when ALL of the following are met:			
	 Puberty has not been completed in the patient; AND Patient is unable to sustain a normal serum testosterone concentration when not receiving testosterone therapy 			
Clinical Criteria				
Testosterone for use in metastatic breast cancer	Testosterone may be considered medically necessary when patients meet ALL of the following criteria:			
	 Patient is biologically female and 18 years of age or older; AND Patient has received a diagnosis of advancing, inoperable metastatic breast cancer; AND Patient has been postmenopausal for 1 to 5 years OR is premenopausal and has demonstrated benefit from oophorectomy and has a hormone-responsive tumor; AND Documentation of first-line treatments used for metastatic breast cancer and information on treatment failures with first-line agents; AND Drug is prescribed by or in consultation with an oncologist or a physician specializing in the treatment of metastatic breast cancer; AND Patient does not have ANY of the following contraindications to testosterone therapy: a. elevated hematocrit (>50%) 			
	b. untreated severe obstructive sleep apnea			



 c. severe lower urinary tract symptoms d. uncontrolled or poorly-controlled heart failure e. pregnant or may become pregnant f. major cardiovascular event (e.g., myocardial infraction, stroke, acute coronary syndrome, etc.) in the previous 6 months If ALL criteria are met, then the request can be approved for 12 months 		
Criteria (Reauthorization)		
Testosterone may be approved for reauthorization when ALL of the following are met:		
 Patient continues to meet criteria 6 above; AND Patient has not experienced any severe adverse events related to testosterone therapy 		

Table 1

Dosage and quantity limits

Name	Dosage Form	Strength	Quantity Level Limit		
Androderm	transdermal patch	2mg	#30 patches per 30-days		
Androuerni	transuermai patch	4mg	#30 patches per 30-days		
	gel packet (2.5g)	1%	300g (4x75g) per 30-days		
AndroGel / generic	gel packet (5g)	1%	300g (2x150g) per 30-days		
	gel pump	1%	300g (4x75g) per 30-days		
	gel packet (1.25g)	1.62%	37.5g (30 packets) per 30-days		
AndroGel / generic	gel packet (2.5g)	1.62%	150g (60 packets) per 30-days		
	gel pump	1.62%	150g (2x75g) per 30-days		
Aveed	injectable solution	250mg/mL	750mg per 30-days		
generic	topical solution	30mg/1.5mL	180mL (2x90mL) per 30-days		
Fortesta / generic	gel	2%	120g (2x60g) per 30-days		
Jatenzo		158mg	#60 capsules per 30-days		
	oral capsules	198mg	#60 capsules per 30-days		
		237mg	#60 capsules per 30-days		
Striant	buccal system	30mg	#60 buccal systems per 30-days		
Testim	gel	1%	300g (60x5g) per 30-days		
Vagalva / ganaria	gel packet	1%	300g (4x75g) per 30-days		
Vogelxo / generic	gel pump	1%	300g (60x5g) per 30-days		
Testopel	pellets (implant)	75mg	6 pellets every 3 months		
Depo-Testosterone /	iniastable solution	100mg/mL	400mg per 28-days		
generic (cypionate)	injectable solution	200mg/mL	400mg per 28-days		
Methitest (methyltestosterone)	oral	10mg	#150 tablets per 30-days		

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Last Updated 03/19/2020

methyltestosterone	oral	10 mg	#150 capsules per 30-days	
Xyosted (enanthate)	Solution auto-injector	50mg/0.5mL	200mg per 28-days	
		75mg/0.5mL	300mg per 28-days	
		100ng/0.5mL	400mg per 28-days	

Coding:

HCPCS Code	Description
J3121	Injection, testosterone enanthate, 1mg
J1071	Injection, testosterone cypionate, 1 mg

References

- 1. AACE Hypogonadism Task Force. American Association of Clinical Endocrinologists Medical Guidelines for Clinical Practice for the Evaluation and Treatment of Hypogonadism in Adult Male Patients 2002 Update. Endocr Pract. 2002; 8(No. 6): 439-456.
- 2. The World Professional Association for Transgender Health (WPATH), Standards of Care for the Health of Transsexual, Transgender, and Gender Nonconforming People, 7th Version.
- 3. Cook, David M, et al. "American Association of Clinical Endocrinologists medical guidelines for clinical practice for growth hormone use in growth hormone-deficient adults and transition patients 2009 update: executive summary of recommendations." Endocrine practice 15.6 (2009):580-586.
- 4. Gibney, James, et al. "Growth hormone and testosterone interact positively to enhance protein and energy metabolism in hypopituitary men." American journal of physiology: endocrinology and metabolism 289.2 (2005):E266-E271
- 5. Bhasin, S, et al. "Testosterone replacement and resistance exercise in HIV-infected men with weight loss and low testosterone levels." JAMA. 2000. 283.(6) 763-770.
- 6. Isidori, Andrea M, et al. Effects of testosterone on sexual function in men: results of a meta-analysis. Clinical endocrinology. 2005 63(4):381-394.
- 7. Kenny, A M, et al. Effects of transdermal testosterone on bone and muscle in older men with low bioavailable testosterone levels. The journals of gerontology. 2001. 56(5) M266-M272.
- 8. Tracz, Michal J, et al. Testosterone use in men and its effects on bone health. A systematic review and meta-analysis of randomized placebo-controlled trials. The Journal of clinical endocrinology and metabolism. 2006. 91(6):2011-2016.
- 9. Bolona, Enrique R, et al. Testosterone use in men with sexual dysfunction: a systematic review and meta-analysis of randomized placebo-controlled trials. Mayo Clinic proceedings.2007. 82(1):20-28.
- 10. The Endocrine Society. Testosterone therapy in Adult Men with Androgen Deficiency Syndromes. J Clini Endocrinol Metab. 2010; 95(6): 2546-59.
- 11. Androderm[®] (testosterone) transdermal system. Prescribing information. Parsippany, NJ: Watson Laboratories, Inc., July 2015.
- 12. Androgel[®] (testosterone) 1.62% gel. Prescribing information. Abbvie Inc. Chicago, IL. May 2015.
- 13. Androgel[®] (testosterone) 1% gel. Prescribing information. Abbvie Inc. Chicago, IL. October 2016.
- 14. Axiron[®] (testosterone) topical solution. Prescribing Information. Indianapolis, IN: Lilly USA, LLC. October 2016.
- 15. Fortesta[®] (testosterone) 2% gel. Prescribing Information. Malvern, PA: Endo Pharmaceuticals. October 2016.
- 16. Testim[®] (testosterone) 1% gel. Prescribing information. Malvern, PA: Endo Pharmaceuticals, Inc., October 2016.



- 17. Striant[®] (testosterone) buccal system. Prescribing information. Endo Pharmaceuticals. Malvern, PA. October 2016.
- 18. Natesto[®] (testosterone) nasal gel. Prescribing information. Endo Pharmaceuticals. Malvern, PA. May 2015.
- 19. Vogelxo[®] (testosterone) gel. Prescribing information. Maple Grove, MN: Upsher-Smith Laboratories, September 2016.
- 20. Hembree, Wylie C, et al. "Endocrine treatment of transsexual persons: an Endocrine Society clinical practice guideline." The Journal of clinical endocrinology and metabolism 94.9 (2009):3132-3154.
- 21. Product Information: XYOSTED(TM) subcutaneous injection, testosterone enanthate subcutaneous injection. Antares Pharma Inc (per FDA), Ewing, NJ, 2018

History

Date	Action and Summary of Changes
02/03/2020	Added Testopel, updated transgender health criteria
10/03/2019	Edited Note
06/21/2019	Reformatted clinical criteria sections; updated clinical documentation required for initial authorization and reauthorization
11/02/2018	Add Xyosted
04/20/2016	New Policy

Washington State Health Care Authority

Testosterone

*For treatment of gender dysphoria, see the Transgender Health Services section of the Physician-Related Services/Health Care Professional Services Billing Guide.

Provide the information below, please print your answer, attach supporting documentation, sign, date, and return to our office as soon as possible to expedite this request. Without this information, we may deny the request in seven (7) working days.

Date of request:	Reference #:		MAS:		
Patient	Date of birth		ProviderOn	ProviderOne ID	
Pharmacy name	Pharmacy NPI Telepho		ne number Fax number		
Prescriber	Prescriber NPI Telephon		one number Fax number		
Medication and strength		Dire	ections for use	se Qty/Days supply	
1. Indicate the diagnosis for your patient (check all that apply): Late-onset (age-related) hypogonadism Chronic high-dose glucocorticoid therapy HIV-associated weight loss Osteoporosis/low trauma fracture. Provide T-score: Delayed puberty Metastatic breast cancer Primary hypogonadism Cryptorchidism Due to: Bilateral torsion Cryptorchidism Klinefelter Syndrome Orchiectomy Trauma or toxic damage from alcohol or heavy metals Vanishing testis syndrome Secondary hypogonadism Secondary hypogonadism					
	ic gonadotropin or luteinizir -hypothalamic injury from t			rmone (LHKH) den	ciency
 If HIV-associated weight loss, proceeding of the second sec	Ideal body weight: eight during the last 6 mont	hs:		et body weight goa	l:
Diagnosis requiring glucocortico Current glucocorticoid regimen	-		Expe	cted duration of tr	eatment:
 Provide your patient's two morning tests (between 8am to 10am) at least one week apart but no more than three months apart, demonstrating low testosterone levels (not applicable for diagnosis of metastatic breast cancer): Total serum testosterone level: ng/dL Total serum testosterone level: ng/dL Free testosterone level: pg/mL Free taken: 					
 Provide your patient's follicle stimulating hormone (FSH) and luteinizing hormone (LH) levels at time of diagnosis (not applicable for diagnosis of metastatic breast cancer): FSH: LH: 					
6. Indicate any of the following for your patient: Breast cancer or known/suspected prostate cancer Yes Significant decrease in bone or muscle mass in the last 6 months Yes Uncontrolled/poorly controlled benign prostate hyperplasia Yes At higher risk of prostate cancer Yes Experienced a major cardiovascular event in the past six months Yes Uncontrolled or poorly-controlled heart failure Yes Elevated hematocrit (>50%) Yes Untreated severe obstructive sleep apnea (OSA) Yes Severe lower urinary tract symptoms Yes Receiving treatment for osteoporosis or low trauma fracture Yes Severe adverse events related to testosterone therapy Yes Pregnant or may become pregnant Yes Supporting documentation required: Laboratory and testing results and chart notes documenting diagnosis.				No No No No No No No	
Prescriber signature Prescriber specialty				Date	