

Policy Name Antithymocyte Globulin Equine, (Atgam)	Policy Number MP-RX-FP-08-24	Scope	MMM Multihealth
Service Category Anesthesia Surgery Radiology Procedures Pathology and Laboratory Procedures	□ Evaluat	ne Services and Pr ion and Managen rosthetics or Supp Drugs	nent Services

Service Description

This document addresses the use of Antithymocyte Globulin Equine, (Atgam), a drug approved by the Food and Drug Administration (FDA) for the treatment of management of allograft rejection in renal transplant patients and for the treatment of moderate to severe aplastic anemia in patients unsuitable for bone marrow transplantation.

Background Information

Atgam Sterile Solution contains lymphocyte immune globulin, anti-thymocyte globulin [equine]. It is the purified, concentrated, and sterile gamma globulin, primarily monomeric IgG, from hyperimmune serum of horses immunized with human thymus lymphocytes. Atgam is a transparent to slightly opalescent aqueous protein solution. It may appear colorless to faintly pink or faintly brown and is nearly odorless. It may develop a slight granular or flaky deposit.

Atgam is composed of antibodies that bind a wide variety of proteins on the surface of lymphocytes. In addition, Atgam binds to granulocytes, platelets, bone marrow cells, and other cell types. The mechanism of Atgam-induced immunosuppression has not been determined. Published data indicate that the primary mechanism is the depletion of circulating lymphocytes, with greatest effect on T lymphocytes. Lymphocyte depletion may be caused by complement dependent lysis and/or activation-induced apoptosis. In addition, immunosuppression may be mediated by the binding of antibodies to lymphocytes which results in partial activation and induction of T lymphocyte anergy.

The mechanism of Atgam therapy for aplastic anemia is attributed to its immunosuppressive actions. In addition, Atgam directly stimulates the growth of hematopoietic stem cells and release of hematopoietic growth factors such as interleukin-3 and granulocyte/macrophage colony stimulating factor.

Other Uses:

NCCN has the following uses of Atgam listed as 2A recommendations:

- <u>Graft-vs-Host Disease</u>: According to the NCCN Hematopoietic Cell Transplantation Clinical Practice Guidelines (version 2.2024 August 30, 2024), ATG is recommended as an adjunct to corticosteroids for managing acute steroid-refractory graft-vs-host disease.
- <u>Immunotherapy-Related Cardiovascular Toxicity</u>: The NCCN Guidelines for the Management of Immunotherapy-Related Toxicities (version 2.2024 –October 25, 2024).) recommend Atgam as an



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 additional therapy for life-threate observed within 24 hours of initi patients with elevated liver transa prednisone or methylprednisolon syndrome (CRS) after CAR T-cell the In these cases, anakinra is the pref cyclophosphamide, IVIG, ATG, intr continuous renal replacement the therapies remains limited. <u>Myelodysplastic Syndrome:</u> The N 2024) include Atgam as a treatme either alone or in combination wir for select patients experiencing c anemia. 	ating pulse-dose methy minases that worsen or e. Furthermore, Atgam erapy in patients unresp erred first-line option, w rathecal chemotherapy, erapy (CRRT) may also ICCN Clinical Practice G ent option for managing th cyclosporine and/or	Iprednisolone. Atga fail to improve with may be used for onsive to high-doses while other agents lik or extracorporeal of be considered, tho Guidelines (version be lower-risk disease. Promacta® (eltromb	am is also an option for a corticosteroids, such as severe cytokine release steroids and tocilizumab ce siltuximab, ruxolitinib cytokine adsorption with bugh evidence for these 1.2025 – November 15 Treatment with Atgam copag), is recommended
Approved Indications			
 Renal Allograft Rejection Atgam is indicated for the manage administered with conventional th resolution of the acute rejection e 	erapy at the time of rej		
 B. Aplastic Anemia Atgam is indicated for the treatme bone marrow transplantation. 	nt of moderate to sever	re aplastic anemia in	n patients unsuitable for
The usefulness of Atgam has not b suitable candidates for bone marro neoplastic disease, storage disease been exposed to myelotoxic agent	ow transplantation or in e, myelofibrosis, Fancon	patients with aplast	tic anemia secondary to
Applicable Codes			
The following list(s) of procedure and/or d be all inclusive. Inclusion or exclusion of a member coverage or provider reimbursem the member specific benefit plan documer	procedure, diagnosis or ient policy. Benefit cove	device code(s) does rage for health serv	not constitute or imply ices is determined by

the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

HCPCS	Description	
J7504	Antithymocyte globulin equine, parenteral, 250 mg	



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ICD-10	Description				
T86.11	Kidney Transplant F	Rejection			
Z94.81	Bone marrow trans				
D61.9	Aplastic anemia				
Z94.89		Other transplanted organ and tissue status			
Z94.9	Transplanted organ and tissue status, unspecified				
130.8			cenica		
130.9		Other forms of acute pericarditis Acute pericarditis, unspecified			
140.8	Other acute myocal				
140.9	140.9				
K71.1-K71.11	Toxic Liver Disease				
K71.0	Toxic liver disease v	vith cholestasis			
K71.50		vith chronic active hepa	titis without ascites		
K71.51		vith chronic active hepa			
R74.01		of liver transaminase lev			
T80.82XA		nune effector cellular th		unter	
T80.82XS					
T80.89XA	· · ·	Complication of immune effector cellular therapy, sequela Other complications following infusion, transfusion and therapeutic injection, initial encounter			
D89.834	Cytokine release sy	ndrome, grade 4			
D89.839		ndrome, grade unspecif	ied		
C93.10		ocytic leukemia not havi		ion	
D46.0	Refractory anemia	without ring sideroblast	s, so stated		
D46.1	Refractory anemia	with ring sideroblasts			
D46.20	Refractory anemia	with excess of blasts, un	specified		
D46.21	Refractory anemia	with excess of blasts 1			
D46.4	Refractory anemia,	unspecified			
D46.9	Myelodysplastic syr	ndrome, unspecified			
D46.A	Myelodysplastic syr	ndromes			
D46.B	Refractory cytopen	a with multilineage dys	plasia and ring side	roblasts	
D46.Z	Other myelodysplas	stic syndromes			
D89.810	Acute graft-versus-				
D89.812	Acute on chronic gr	aft-versus-host disease			
D89.813	Graft-versus-host d	isease, unspecified			



Medical Necessity Guidelines

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

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

Antithymocyte Globulin Equine, (Atgam)

- **A. Criteria For Initial Approval** (*Provider must submit documentation* [such as office chart notes, lab results, pathology reports, imaging studies, and any other pertinent clinical information] supporting the patient's diagnosis for the drug and confirming that the patient has met **all** approval criteria.)
 - i. For the management of Allograft Rejection in Solid Organ Transplant; AND
 - a. Atgam is used for induction therapy, prior to, at the time of, or immediately following transplantation; **OR**
 - b. Atgam is used for the treatment of acute rejection.

OR

- ii. For the management of Aplastic Anemia; AND
 - a. Individual has moderate to severe disease; AND
 - b. Individual is unsuitable for bone marrow transplantation.

OR

iii.

For Allogeneic Hematopoietic Stem Cell Transplantation (NCCN 2A); AND

- a. Atgam is used as part of a conditioning regimen beginning prior to allogeneic hematopoietic stem cell transplantation; **AND**
- b. Atgam is being used in combination with cladribine and busulfan; AND
- c. Atgam will be used in a compendia (NCCN) recommended regimen.

OR

- iv. Graft-Versus-Host Disease (NCCN 2A); AND
 - a. Individual has acute disease; AND
 - b. Individual's disease is refractory or resistant to corticosteroid therapy; **AND**
 - c. Atgam will be used as additional therapy in conjunction with systemic corticosteroids; **AND**
 - d. Atgam will be used in a compendia (NCCN) recommended regimen.

OR

- v. Immune Checkpoint Inhibitor-Related Toxicities (immunotherapy-related myocarditis) (NCCN 2A); **AND**
 - a. Individual has received at least one immune checkpoint inhibitor. Note: Immune checkpoint inhibitors include Opdivo (nivolumab intravenous infusion), Keytruda (pembrolizumab intravenous infusion), Tecentriq (atezolizumab intravenous infusion), Bavencio (avelumab intravenous infusion), Imfinzi (durvalumab intravenous infusion), Yervoy (ipilimumab intravenous infusion); AND
 - b. Individual has life-threatening myocarditis, pericarditis, arrhythmias, or impaired ventricular function, according to the prescriber; **AND**



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methylprednisolo d. Atgam will be user OR vi. Immune Checkpoint Inhibito a. Individual has include: Tisagenle (Yescarta), Brexuo (Breyanzi), Idecab (Carvykti); AND b. Individual's condir therapy (tocilizum c. Atgam will be user OR vii. Low Risk Myelodysplastic Sy a. Individual has low	d in a compendia (NCCN) or-Related Toxicities (cyto received Cart-T Cell scleucel (Kym cabtagene autoleucel stagene vicleucel (Abs tion is refractory to both hab product); AND d in a compendia (NCCN) ordrome (NCCN 2A) ver risk disease. Note: Low	ver risk disease is	regimen. drome) (NCCN 2A); AND CAR T-cell therapies ene ciloleuce cabtagene maraleuce cacabtagene autoleuce ticosteroids and anti-IL-6 regimen.
risk of very low, lo System (WPSS) ris b. Individual has one 1. Clinically rel 2. Clinically rel 3. Increased m 4. Symptomati AND		ld Health Organi: ermediate; AND ng to the prescril i; OR	zation Prognostic Scoring
c. Atgam will be use NOTE: For details regarding Nationa description, indications and limitatic	-	n (NCD-260.7) in	cluding service
Anti-Thymocyte Globulin (Equine) (2		Sit <u>NCD - Lympic</u>	leyte minune Globain,
B. Continuation Criteria i. MMM considers continuation necessary in members requences (Criteria for Initial Approval)	esting reauthorization for	r an indication lis	ted in Section A above
C. Authorization Duration i. Click or tap here to enter tex			



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D. Condition	ns not covered	<u> </u>	<u> </u>	
may not l	r use is considered experim be all inclusive): Vhen the above criteria are		•	ing the following (this list
Limits or Restriction	ons			
A. Therapeu	tic Alternatives			
	elow includes preferred al t to prior authorization.	ternative therapies recom	nmended in the a	pproval criteria and may
i. N	I/A			
B. Quantity	Limitations			
compend	s may be subject to dos ia, and/or evidence-ba	sed practice guidelines	. The chart l	
recomme	nuations as per the FDA-a	pproved prescribing inform	mation.	
Drug			nation. Dosing Schedule	9
	Allograft Rejection in Sol Up to 15 mg/kg Up to seven add for a maximum to Aplastic Anemia Up to 20 mg/kg Additional alterred Allogeneic Hematopoiet Up to 40 mg/kg given twice daily Acute Graft-Versus-Host Up to 40 mg/kg/ therapy. Immune Checkpoint Inhi Up to 15 mg/kg Up to seven add	Recommended lid Organ Transplant: administered intravenous itional doses can be admi total of 21 doses in 28 day administered intravenous nate-day therapy up to a t ic Stem Cell Transplantation administered intravenous of or up to 4 days. Disease day administered intravenous itional doses can be admi total of 21 doses in 28 day	ly daily for up to nistered intraven vs. ly daily for up to otal of 21 doses r on ly daily as a single nously for up to 1 ly daily for 14 day	14 days ously every other day 14 days may be given. e dose, or divided and 10 doses in a course of ys.



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	• Up to 15 mg/kg	administered intravence	usly daily for 5 days	5	
		Exceptions			
		None			
Reference Inform	nation				
2. The N Availa 3. The I Onco Availa 4. The N Nove http:/	cine. Accessed ://dailymed.nlm.nih.gov/d 17632b54. NCCN Drugs and Biologics able at: http://Atgam.ncc NCCN Management of I logy (version 2.2024 –Oct able at: http://Atgam.ncc ICCN Myelodysplastic Sym mber 15, 2024). ©20 //Atgam.nccn.org. Access CCN Hematopoietic Cell	s Compendium. © 2024 cn.org. Accessed on Nov Immunotherapy-Related tober 25, 2024). © 2024 n.org. Accessed Novemb ndromes Clinical Practic 024 National Compre ed November 27, 2024.	National Comprehember 27, 2024 Sea Toxicities Clinica National Compreher 27, 2024. Se Guidelines in On- hensive Cancer I	nensive Cancer Networl arch term: Atgam. I Practice Guidelines i nensive Cancer Networl cology (version 1.2025 Network. Available a	
http:/ 6. Micro		ed November 27, 2024. lease Login. Acces	sed July 11,	2023. Available a	
ert/N cexpe hboa	://Atgam.micromedexsolu D_P/evidencexpert/DUPL ert/ND_AppProduct/evide rd?docId=928697&c	LICATIONSHIELDSYNC/E encexpert/ND_T/eviden ontentSetId=100&	3DE8C/ND_PG/evid cexpert/PFActionId title=Antithymocyte	encexpert/ND_B/evide /evidencexpert.GoToDa %2BGlobulin%2BEquin	
MdxS	earchTerm=atgam& nal Coverage Determinat				



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Antithymocyte Globulin Equine, (Atgam)		MP-RX-FP-08-24		1MM MA 🛛 🛛 MMM Multihea		
olicy History		<u> </u>				
Revision Type	S	Summary of Changes		P& Approva		MPCC Approval Date
Annual Review 09/15/2024	section (backg combination when used for Organ Transp immune check to make it spe myocarditis, a use and crite guidelines; Ad the criteria of will be use recommended Criteria state Covered sect changes; Co following code T86.09, Z94.8 I40.8, I40.9, K71.11, K71.5 T80.82XS, Ta	, D46.1, D46.20, D46.21	used in ousulfan in Solid o use in oxicities -related ted CRS npendia ment to : Atgam (NCCN) nuation ns Not matting ed the 089.813, 6, I30.9, K71.10, 0.82XA, 089.839,	2/18/20		3/6/2025
Policy Inception 09/27/2023	Policy reviewe Committee.	d and approved by P&T		10/30/2	023	11/30/2023