

LUMASON®

(sulfur hexafluoride lipid-type A microspheres)
for injectable suspension, for intravenous
use or intravesical use
VISUALLY DECISIVE

2023 REIMBURSEMENT RESOURCE KIT IDTF INDEPENDENT DIAGNOSTIC TESTING FACILITIES

February 2023

DISCLAIMERS

The information provided here is general reimbursement information for LUMASON. It is not legal advice, nor is it advice about how to code, complete, or submit any particular claim for payment. Although we supply this information based on our current knowledge, it is always the provider's responsibility to determine and submit appropriate codes, charges, modifiers, and bills for the services that were rendered. This coding and reimbursement information is subject to change without notice. Payers or their local branches may have their own coding and reimbursement requirements and policies. Before filing any claims, providers should verify current requirements and policies with the payer.

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Committed to Science,
Committed to You.™



Indications for LUMASON® (sulfur hexafluoride lipid-type A microspheres) for injectable suspension, for intravenous use or intravesical use

LUMASON® (sulfur hexafluoride lipid-type A microspheres) for injectable suspension, for intravenous use or intravesical use is an ultrasound contrast agent indicated for use:

- in echocardiography to opacify the left ventricular chamber and to improve the delineation of the left ventricular endocardial border in adult and pediatric patients with suboptimal echocardiograms
- in ultrasonography of the liver for characterization of focal liver lesions in adult and pediatric patients
- in ultrasonography of the urinary tract for the evaluation of suspected or known vesicoureteral reflux in pediatric patients

IMPORTANT SAFETY INFORMATION

WARNING: SERIOUS CARDIOPULMONARY REACTIONS

Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or following the injection of ultrasound contrast agents, including sulfur hexafluoride lipid microspheres. Most serious reactions occur within 30 minutes of administration.

- **Assess all patients for the presence of any condition that precludes administration**
- **Always have resuscitation equipment and trained personnel readily available**

Contraindications

LUMASON (sulfur hexafluoride lipid-type A microspheres) for injectable suspension, for intravenous use or intravesical use is contraindicated in patients with known or suspected hypersensitivity to sulfur hexafluoride lipid microsphere or its components, such as polyethylene glycol (PEG).

Warnings

Serious cardiopulmonary reactions, including fatalities, have occurred uncommonly during or shortly following administration of ultrasound contrast agents, including LUMASON. Always have cardiopulmonary resuscitation personnel and equipment readily available prior to LUMASON administration and monitor all patients for acute reactions.

Post-marketing **hypersensitivity reactions**, including serious hypersensitivity reactions, have been observed during use or shortly following LUMASON administration. These reactions may occur in patients with no history of prior exposure to sulfur hexafluoride lipid-containing microspheres. LUMASON contains PEG. There may be increased risk of serious reactions including death in patients with prior hypersensitivity reaction(s) to PEG.

Systemic embolization may occur in patients with cardiac shunts. Assess patients with cardiac shunts for embolic phenomena following LUMASON administration.

There is a risk of **ventricular arrhythmia related to high mechanical index** in patients administered LUMASON. LUMASON is not recommended for use at mechanical indices greater than 0.8.

The most common adverse reactions (incidence $\geq 0.5\%$) are headache (1%) and nausea (0.5%).

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

Please [click here](#) to see full Prescribing Information for LUMASON ultrasound contrast agent, including BOXED WARNING on Serious Cardiopulmonary Reactions.

LUMASON is manufactured for Bracco Diagnostics Inc., Monroe Township, NJ 08831 by Bracco Suisse S.A., Plan-les-Ouates Geneve, Switzerland (LUMASON lyophilized powder vial-25 mg lipid-type A/60.7 sulfur hexafluoride gas); Vetter Pharma-Fertigung GmbH & Co. KG, 88212 Ravensburg, Germany (Sodium Chloride 0.9% Injection, USP); B. Braun Melsungen AG, 34212 Melsungen, Germany (Mini-Spike).

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LUMASON® is the only ultrasound enhancing agent (UEA) with 3 indications¹

- ✓ Echocardiography to opacify the left ventricular chamber and to improve the delineation of the left ventricular endocardial border in adult and pediatric patients with suboptimal echocardiograms
- ✓ Ultrasonography of the liver for the characterization of focal liver lesions in adult and pediatric patients
- ✓ Ultrasonography of the urinary tract for the evaluation of suspected or known vesicoureteral reflux in pediatric patients



All-inclusive portable kit



20 vials & 20 spike pack

CPT® (Current Procedural Terminology)

Codes used to report the service or procedure performed.

HCPCS (Healthcare Common Procedure Coding System)

Codes used to report the provision of supplies, materials, injections, and certain services and procedures. For example, the HCPCS code for LUMASON ultrasound enhancing agent (UEA) is Q9950.

C-codes

Unique, temporary HCPCS codes created by Medicare and used for HOPPS only. This is often done when no other appropriate code exists. An example of this is the C-code series in echocardiography, which is described on page 10.

Coding Modifiers

Under the Medicare Physician Fee Schedule, LUMASON UEA is separately reimbursable, and therefore the JZ and JW Modifiers are required. The JZ Modifier, mandatory as of July 1, 2023, indicates no drug wastage. The JW Modifier indicates the amount of drugs in a single use vial that has been discarded. Claims that do not report the modifiers as appropriate on or after October 1, 2023 may be returned as unprocessable until claims are properly resubmitted. <https://www.cms.gov/medicare/medicare-fee-for-service-payment/hospitaloutpatientpps/downloads/jw-modifier-faqs.pdf>

ICD-10-CM (International Classification of Disease)

Codes used to describe a patient's signs and symptoms that would represent a medically necessary reason for performing the procedure. ICD-10 codes need to be entered on the claim form. ICD-10 is the 10th revision of the International Statistical Classification of Diseases and Related Health Problems (ICD), a medical classification list by the World Health Organization (WHO).

APC (Ambulatory Payment Classification)

In most cases, the unit of payment under the HOPPS is the APC. CMS assigns individual services HCPCS & CPT codes to APCs based on similar clinical characteristics and similar costs. The payment rate and copayment calculated for an APC apply to each service within the APC.

NDC (National Drug Code)

An NDC code provides a unique identifier for a specific drug. The NDC for LUMASON ultrasound enhancing agent is: 0270-7099-16. When billing requires an 11-digit NDC code, please add an additional zero at the beginning of the code.

Medicare Addendum B

These files are updated quarterly and reflect hospital HOPPS payment rates for HCPCS codes and APC codes. www.cms.gov/Medicare/Medicare-Fee-For-Service-Payment/HospitalOutpatientpps/Addendum-A-and-Addendum-B-Updates.html.

Medicare Part B ASP (average selling price) file

Quarterly payment files are published for Independent Diagnostic Testing Facilities (IDTFs) and physician offices. This is where the payment value for LUMASON (Q9950) can be found: www.cms.gov/Medicare/Medicare-Fee-for-Service-Part-B-Drugs/McrPartBDrugAvgSalesPrice/index.html.

Medicare Physician Fee Schedule (MPFS)

Find out physician payment for specific geographic locations in the country for different procedures. This schedule provides: global (G), technical (TC), and professional (26) component payment rates. To find out more information on specific locations visit: www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PFSLookup/index.html?redirect=/pfslookup.

Q9950²: LUMASON ultrasound enhancing agent (UEA)

1 vial = 5 mL

Billing unit is per mL, not by vial or doses

Medicare Patients: LUMASON UEA is part of a bundled payment under HOPPS and not separately reimbursed. Please code separately with the echocardiography and radiology procedure codes

Commercially insured patients: The provider must contact their respective insurance providers to include Q9950 and establish a reimbursement value.

Medicaid Patients: Medicaid coverage varies by state, please consult your local Medicaid office to find the policies in your area. Bracco does not participate in the Medicaid rebate program.

Procedure Codes: Echocardiography: 933xx series and C-8921-30 code series.^{2,3} Please see pages 8 and 10 for a complete list.

Please note: C-codes are a unique set of codes established by CMS with the intended purpose of being used exclusively for Medicare patients in the Hospital Outpatient Setting. However, many commercial plans will accept the C-codes in non-hospital facilities as well. Please consult with individual plans to find out the most appropriate way to bill for your patients.



Sample health insurance claim form CMS-1500

Echocardiography with contrast

HEALTH INSURANCE CLAIM FORM
APPROVED BY NATIONAL UNIFORM CLAIM COMMITTEE (NUCC) 02/12

1. MEDICARE ☐ MEDICAID ☐ TRICARE ☐ CHAMPVA ☐ (SHARP) HEALTH PLAN ☐ FECA BLK (LUNG) ☐ OTHER ☐
(Medicare#) (Medicaid#) (TRICARE#) (Member ID#) (ID#) (ID#) (ID#)

2. PATIENT'S NAME (Last Name, First Name, Middle Initial)

3. PATIENT'S BIRTH DATE MM DD YY SEX M ☐ F ☐

4. INSURED'S NAME (Last Name, First Name, Middle Initial)

5. PATIENT'S ADDRESS (No., Street)

6. PATIENT'S RELATIONSHIP TO INSURED Self ☐ Spouse ☐ Child ☐ Other ☐

7. INSURED'S ADDRESS (No., Street)

CITY STATE ZIP CODE TELEPHONE (Include Area Code)

8. RESERVED FOR NUCC USE

9. OTHER INSURED'S NAME (Last Name, First Name, Middle Initial)

10. IS PATIENT'S CONDITION RELATED TO:
a. EMPLOYMENT? (Current or Previous) YES ☐ NO ☐
b. AUTO ACCIDENT? YES ☐ NO ☐ PLACE (State) _____
c. OTHER ACCIDENT? YES ☐ NO ☐

11. INSURED'S POLICY GROUP OR FECA NUMBER
a. INSURED'S DATE OF BIRTH MM DD YY SEX M ☐ F ☐
b. OTHER CLAIM ID (Designated by NUCC) _____
c. INSURANCE PLAN NAME OR PROGRAM NAME _____

12. PATIENT'S OR AUTHORIZED PERSON'S SIGNATURE I authorize the release of any medical or other information necessary to process this claim. I also request payment of government benefits either to myself or to the party who accepts assignment below.

13. INSURED'S OR AUTHORIZED PERSON'S SIGNATURE I authorize payment of medical benefits to the undersigned physician or supplier for services described below.

DATE MM DD YY SIGNED _____

14. OTHER DATE MM DD YY

15. DATES PATIENT UNABLE TO WORK IN CURRENT OCCUPATION FROM MM DD YY TO MM DD YY

16. HUSH ALLOCATION DATES RELATIONSHIP FROM MM DD YY TO MM DD YY

17. OUTSIDE LAB? YES ☐ NO ☐

18. RESUBMISSION CODE _____

19. PRIOR AUTHORIZATION NUMBER _____

20. DATE(S) OF SERVICE From MM DD YY To MM DD YY

21. PLACE OF SERVICE EMG ☐ Q-1/HCPUS ☐

22. PROCEDURES, SERVICES, OR SUPPLIES (Explain Unusual Circumstances) MODIFIER

23. DIAGNOSIS POINTER

24. CHARGES \$

25. DAYS OR UNITS

26. EPST/PTTY Ref ☐

27. ID QUAL

28. RENDERING PROVIDER ID #

29. SIGNATURE OF PHYSICIAN OR SUPPLIER INCLUDING DEGREES OR CREDENTIALS (I certify that the statements on the reverse apply to this bill and are made a part thereof.)

30. SERVICE FACILITY LOCATION INFORMATION

31. BILLING PROVIDER INFO & PH # ()

32. PATIENT'S ACCOUNT NO.

33. ACCEPT ASSIGNMENT? (For gov. claims, see back) YES ☐ NO ☐

34. TOTAL CHARGE \$

35. AMOUNT PAID \$

36. Rsvd. for NUCC Use

SIGNED _____ DATE _____

NUCC Instruction Manual available at: www.nucc.org

Bracco Diagnostics Inc. cannot guarantee coverage or payment for products or procedures at any particular level. For more specific information please contact your Medicare contractor or the patient's insurer.

Clear Form

Form Locator 24D. (HCPCS/Rates/HIPPS Code)

Enter CPT® or HCPCS code for procedure and radiopharmaceutical

93306 Echocardiography
Q9950 LUMASON®

Form Locator 24G. (Units of Service)

Enter number of units based on the HCPCS descriptor

JW Modifier: Discarded drug not administered, wastage

JZ Modifier: Zero drug wasted

MEDICARE PHYSICIAN FEE SCHEDULE NATIONAL AVERAGE PAYMENT RATES

Echocardiography CPT® codes² for adult and pediatric patients

CPT code ²	Long-description CPT	Modifier	MPFS National Payment Rate ⁴
93303	Echo transthoracic	G	\$223.32
		TC	\$162.32
		26	\$61.00
93304	Echo transthoracic	G	\$157.57
		TC	\$121.66
		26	\$35.92
93306	Tte w/doppler complete	G	\$198.58
		TC	\$130.47
		26	\$68.11
93307	Tte w/o doppler complete	G	\$138.60
		TC	\$95.22
		26	\$43.38
93308	Tte f-up or lmted	G	\$99.63
		TC	\$74.89
		26	\$24.74
93312	Echo transesophageal	G	\$239.24
		TC	\$133.52
		26	\$105.73
93313	Echo transesophageal	G	\$11.18
93314	Echo transesophageal	G	\$230.77
		TC	\$141.65
		26	\$89.12
93315	Echo transesophageal	26	\$125.38
93316	Echo transesophageal	G	\$25.42

CPT code ²	Long-description CPT	Modifier	MPFS National Payment Rate ⁴
93317	Echo transesophageal	26	\$87.43
93318	Echo transesophageal intraop	26	\$101.32
93319	3d echo img cgen car anomal	G	\$55.91
93320	Doppler echo exam heart	G	\$51.17
		TC	\$33.55
		26	\$17.62
93321	Doppler echo exam heart	G	\$25.42
		TC	\$18.30
		26	\$7.12
93325	Doppler color flow add-on	G	\$23.72
		TC	\$20.67
		26	\$3.05
93350	Stress tte only	G	\$187.74
		TC	\$119.62
		26	\$68.11
93351	Stress tte complete	G	\$234.84
		TC	\$152.83
		26	\$82.01
93352	Admin ecg contrast agent	G	\$34.23
93355	Echo transesophageal (tee)	G	\$222.64
93356	Myocrd strain img spckl trck	G	\$37.62

MEDICARE PHYSICIAN FEE SCHEDULE NATIONAL AVERAGE PAYMENT RATES (cont'd)

Radiology – Liver and Urinary Tract

Ultrasonography of the liver and urinary tract for vesicoureteral reflux²

CPT® code	Description	Modifier	MPFS National Payment Rate ⁴
76978	Ultrasound, targeted dynamic microbubble sonographic contrast characterization (non-cardiac); initial lesion	G	\$309.38
		TC	\$230.12
		26	\$79.25
+76979, add-on code	Ultrasound, targeted dynamic microbubble sonographic contrast characterization (non-cardiac); each additional lesion with separate injection (List separately in addition to code for primary procedure)	G	\$204.87
		TC	\$163.34
		26	\$41.53

Alternate Coding from the American Medical Association

Ultrasonography of the urinary tract for vesicoureteral reflux⁵

CPT® code	Description	Modifier	MPFS National Payment Rate ⁴
51600	Injection procedure for cystography or voiding urethrocytography	G	\$225.98
74455	Urethrocytography, voiding, radiological supervision and interpretation	G	\$110.05
		TC	\$94.48
		26	\$15.57
74430	Cystography, minimum of 3 views, radiological supervision and interpretation	G	\$41.87
		TC	\$26.65
		26	\$15.23

LUMASON® Ultrasound Enhancing Agent



Note: LUMASON UEA must be coded separately

HCPCS code ³	Description	2023 Q1 CMS Average Sales Price*
Q9950	Sulfur hexafluoride lipid microspheres, per mL; there are 5 mL per single-use vial of LUMASON UEA.	\$18.377/mL or \$91.885/vial

*Average Sales Pricing for drugs changes on a quarterly basis under CMS. For the most up-to-date reimbursement rate, please visit <https://www.cms.gov/medicare/medicare-part-b-drug-average-sales-price/2023-asp-drug-pricing-files>

Echocardiography: C-codes

C-codes are a unique set of codes established by CMS with the intended purpose of being used exclusively for Medicare patients in the Hospital Outpatient Setting. However, many commercial plans will accept the C-codes in non-hospital sites as well. Please consult with individual plans to find out the most appropriate way to bill for your patients.

HCPSC code ³	Long-description HCPSC
C8921	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; complete
C8922	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; follow-up or limited study
C8923	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete, without spectral or color doppler echocardiography
C8924	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, follow-up or limited study
C8925	Transesophageal echocardiography (TEE) with contrast, or without contrast followed by with contrast, real time with image documentation (2d) (with or without m-mode recording); including probe placement, image acquisition, interpretation and report
C8926	Transesophageal echocardiography (TEE) with contrast, or without contrast followed by with contrast, for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report
C8927	Transesophageal echocardiography (TEE) with contrast, or without contrast followed by with contrast, for monitoring purposes, including probe placement, real time 2-dimensional image acquisition and interpretation leading to ongoing (continuous) assessment of (dynamically changing) cardiac pumping function and to therapeutic measures on an immediate time basis
C8928	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report
C8929	Transthoracic echocardiography with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, complete, with spectral doppler echocardiography, and with color flow doppler echocardiography
C8930	Transthoracic echocardiography, with contrast, or without contrast followed by with contrast, real-time with image documentation (2d), includes m-mode recording, when performed, during rest and cardiovascular stress test using treadmill, bicycle exercise and/or pharmacologically induced stress, with interpretation and report; including performance of continuous electrocardiographic monitoring, with physician supervision

Echocardiography: Cross Walk Codes Without and With Contrast^{2,3}

CPT®	without contrast with contrast	C-code
93303	←→	C8921
93304	←→	C8922
93306	←→	C8929
93307	←→	C8923
93308	←→	C8924

CPT	without contrast with contrast	C-code
93312	←→	C8925
93315	←→	C8926
93318	←→	C8927
93350	←→	C8928
93351	←→	C8930



All-inclusive portable kit

Each kit contains:

- One LUMASON® vial of 25 mg lipid-type A white lyophilized powder with headspace fill of 60.7 mg of sulfur hexafluoride
- One prefilled syringe containing 5mL of 0.9% Sodium Chloride Injection, USP (Diluent)
- One Mini-Spike

Product	LUMASON UEA
SKU	709916
NDC	0270-7099-16
Product Description	KIT LUMASON 5x 25MG FLIPCAP
Product Configuration	Five (5) Vial Kit

Novaplus®	SKU 709700	NDC 0270-7099-73
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20-vial pack

Each pack contains:

- Twenty (20) LUMASON® vials of 25 mg lipid-type A white lyophilized powder with headspace fill of 60.7 mg of sulfur hexafluoride
- Twenty (20) Mini-Spikes
- Twenty (20) peel-off syringe labels

Product	LUMASON UEA
SKU	709707
NDC	0270-7097-07
Product Description	MP LUMASON 20x 25MG VIAL/SPIKE US
Product Configuration	Twenty (20) Vial Pack

Novaplus®	SKU 709708	NDC 0270-7097-08
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Available to purchase direct from Bracco Diagnostics Inc. and through authorized wholesale distributors.
Novaplus is a registered trademark of Vizient, Inc.

Customer Service: 1-877-BRACCO 9 (1-877-272-2269)

How we support you

The Bracco Reimbursement Hotline is here to support you for all your reimbursement needs.

Ask coding and billing questions regarding Bracco Diagnostics products and procedures related to those products.

- ✓ HCPCS codes for products
- ✓ CPT® and HCPCS codes for procedures
- ✓ Medicare payments
- ✓ Monday-Friday: 9:00 AM-6:00 PM Eastern Time

For more information on reimbursement, contact the Bracco Reimbursement Hotline at:



1-800-349-1388

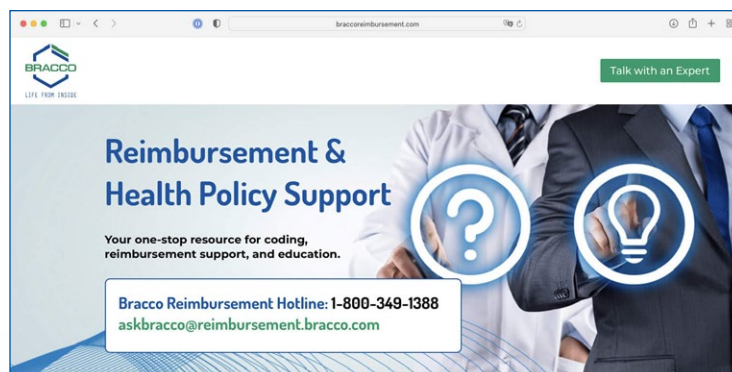


askbracco@reimbursement.bracco.com

Please visit us at www.braccoreimbursement.com for more information

On our website, you may sign up to:

- ✓ Receive educational emails
- ✓ Access our complimentary reimbursement webinars
- ✓ Get the latest updates on:
 - Coding
 - Coverage
 - Payment



1. LUMASON® (sulfur hexafluoride lipid-type A microspheres) for injectable suspension, for intravenous use or intravesical use. [Full Prescribing Information](#). Monroe Twp, NJ: Bracco Diagnostics Inc., August 2021
2. American Medical Association. *2022 Professional Edition CPT® Current Procedural Terminology*. Chicago, IL: American Medical Association; 2021: 417, 538, 554, 762-764.
3. American Medical Association. *HCPCS Level II Professional 2021*. Chicago IL: American Medical Association; 2020: 147-148, 151, 397.
4. Centers for Medicare & Medicaid Services. *Physician Fee Schedule Look-Up Tool*. <https://www.cms.gov/Medicare/Medicare-Fee-for-Service-Payment/PFSlookup>. Accessed February 22, 2023.
5. American College of Radiology: The Coding Source, May-June 2019 <https://www.acr.org/Advocacy-and-Economics/Coding-Source/May-June-2019/QandA-Voiding-Urosonography>. Published June 24, 2019, Accessed February 22, 2023.

Bracco Diagnostics Inc.
259 Prospect Plains Road, Building H
Monroe Township, NJ 08831 USA
Phone: 609-514-2200
Toll Free: 1-877-272-2269 (U.S. only)
Fax: 609-514-2446

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