

REDUCE THE LOAD, NOT THE QUALITY

- **REDUCE THE CONTRAST LOAD UP TO 40%¹**
- MAINTAIN IMAGE QUALITY²
- 1 CLICK CONTRAST MEDIA INJECTION EFFICIENCY





WORLDWIDE SCIENTIFIC COMMUNITY TRENDS & RECOMMENDATIONS



Iodine shortages and costs surge.

↳ Recommendations issued by Healthcare Commissions and radiologists on how to overcome x-ray contrast media shortages.



REDUCE THE CONTRAST LOAD UP TO 40%¹ THANKS TO THE OPTIVANTAGE ADD-ON



- No compromise on image quality²
- Plug and Play set-up
- 1 click contrast media injection efficiency



OptiVantage® KONNECT



Boost your Optivantage® injector with a complete interconnected solution.



CONTACT US

Learn more and schedule a demo.





REDUCE THE WASTE. NOT THE CARE.

Given increasing reliance on CT for clinical decision making, the current global shortage of iodinated contrast media is creating manifold challenges for health systems.

Health entities, such as the American College of Radiology Committee on Drugs and Contrast Media, have published Statements with a variety of high-level recommendations therefore imaging providers and their institutions can continue to provide high-quality patient care during times of shortage of contrast media.

One of these recommendations consists in “*minimizing individual doses administered, to reduce waste*”.

Iodine price evolution

CAGR **+20.8%**

Iodine raw material price, which is the main component of iodinated contrast media, had a CAGR of 20.8% since 2017



Statement from the ACR Committee on Drugs and Contrast Media on the Intravenous Iodinated Contrast Media Shortage - Journal of the American College of Radiology (jacr.org)



OptiBolus® by Guerbet offers a solution in support of this recommendation.

With 1 easy click, reduce the contrast media load administered, for a more efficient process.



REDUCE THE DOSE. NOT THE CARE.

- Reduce the contrast load up to 40%¹ thanks to OptiVantage® add-on
- No compromise on image quality²
- Plug and Play set-up
- 1 click contrast media injection efficiency

-40%¹



CLINICAL PROOF >>

4 Case Studies showing contrast volume reduction, using OptiVantage® with OptiBolus®

CONTRAST MEDIUM ADMINISTRATION IMAGING PROTOCOLS

	Volume	Start flow rate	End flow rate	Iodine concentration	Iodine quantity
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CT-angiogram of aortic arch and carotids

Non OptiBolus®	100 mL	5.0 mL/s	5.0 mL/s	350 mg/mL	35.0 g
OptiBolus®	60 mL	5.0 mL/s	4.4 mL/s	350 mg/mL	21.0 g
Reduction	40 mL	n/a	0.6 mL/s	n/a	14.0 g (40%)

Courtesy of Chelsea Westminster Hospital NHS Foundation Trust

Routine Pulmonary Embolus CT Scan

Non OptiBolus®	90 mL	4.0 mL/s	4.0 mL/s	300 mg/mL	27.0 g
OptiBolus®	75 mL	4.0 mL/s	3.2 mL/s	300 mg/mL	22.5 g
Reduction	15 mL	n/a	0.8 mL/s	n/a	4.5 g (17%)

Courtesy of Colin Monaghan, CT Superintendent, Liverpool Heart & Chest Hospital NHS Foundation Trust

CT angiogram of femoral arteries

Non OptiBolus®	100 mL	5.0 mL/s	5.0 mL/s	350 mg/mL	35.0 g
OptiBolus®	75 mL	5.0 mL/s	4.2 mL/s	350 mg/mL	26.5 g
Reduction	25 mL	n/a	0.8 mL/s	n/a	8.8 g (25%)

Courtesy of Chest & Westminster Hospital NHS Foundation Trust

Routine Thoracic Aorta CT Scan

Non OptiBolus®	90 mL	3.0 mL/s	3.0 mL/s	300 mg/mL	27.0 g
OptiBolus®	75 mL	3.0 mL/s	2.2 mL/s	300 mg/mL	22.5 g
Reduction	15 mL	n/a	0.8 mL/s	n/a	4.5 g (17%)

Courtesy of Colin Monaghan, CT Superintendent, Liverpool Heart & Chest Hospital NHS Foundation Trust



REDUCE THE EFFORT. NOT THE CARE.

OptiVantage® KONNECT

When efficiency and care combine seamlessly into one interconnected solution.

To help radiographers efficiently manage contrast media injections, Guerbet introduces OptiVantage® KONNECT, an interconnected injection solution with automatic injection traceability, advanced analytics and full service coverage.



OptiVantage®

+

Contrast&Care®

+

OptiProtect™ 3S

WITH EFFICIENCY & CARE IN MIND

OPTIMIZE WORKFLOW & WORKLOAD,
WHILE MAINTAINING A HIGH LEVEL
OF HYGIENE

To offer comfort for the radiographer and his patient.
Up to 24h³ with certified⁴ and designed components.

SUPPORT INFORMED DECISIONS

BASED ON COMPREHENSIVE
ANALYTICS

To optimize your contrast media utilization.⁵

BACKED BY GUERBET'S SMART SERVICE SOLUTIONS

RELY ON CERTIFIED EXPERTS

To support your operations and maintain your
equipment.

OPTIVANTAGE® PLUG & PLAY EFFICIENCY ADD-ON > OPTIBOLUS®



Scan or click here
to learn more or contact us



References:

1. Clinical Cases mentioned in the document:

1st Case: Courtesy of Chelsea Westminster Hospital NHS Foundation Trust

2nd case: Courtesy of Colin Monaghan, CT Superintendent, Liverpool Heart & Chest Hospital NHS Foundation Trust

3rd case: Courtesy of Chest & Westminster Hospital NHS Foundation Trust

4th case: Courtesy of Colin Monaghan, CT Superintendent, Liverpool Heart & Chest Hospital NHS Foundation Trust

2. Internal data; Cattini G.H and Walsh A. - A bolus shaping software used to reduce the amount of contrast given to patients during CT exams without reducing the diagnostic confidence (2010) ; Navin, P, Murray, A.M, Nandikumar, K, Waldron, R, Tuohy, B., Shaped-bolus protocol reduces contrast medium volume in abdominal CT while maintaining image quality - Clinical Radiology (Oct 2016)

3. Internal data D6648 LF Technical File

4. Certified by Guerbet as compatible on Guerbet injectors - data on file

5. From an operational standpoint by providing real-time data on the number of injections performed and the total injected volume that can help the users to make informed decisions related to their injector usage and contrast media ordering. From a clinical standpoint: Data on adverse events can help the users to identify patterns associated with the occurrence of adverse events (for instance high flow rate and extravasations) and make informed decision related to their injection practice.

OptiVantage® DH Contrast Media Injector is a medical device intended for use by qualified healthcare professionals, it is a contrast delivery system and is designed to inject radiopaque contrast media into a patient's vascular system to obtain diagnostic images when used with computed tomography (i.e. «CT») equipment.

Ensure that injection from multi-dose containers and to more than one patient respects the valid rules of good practice and the marketing authorization (MA) of the contrast agent and local regulatory requirements.

Class IIb/CE TÜV SÜD 0123 Manufacturer: Liebel-Flarsheim Company LLC EC Rep: Guerbet

Contrast&Care® is a medical device intended for use by healthcare professionals only. It allows imaging centers to collect, archive, view and share patients' injection data, including data concerning contrast products, adverse events, injector activity, data on the estimated eGFR and other pre-exam alerts, such as previously reported allergies. Contrast&Care® also provides options to review protocols, create protocol libraries, and visualize analytics data and trends relating to injection activity and contrast product usage.

Class I/CE Manufacturer: Medex.

Contrast&Care®+ is a medical device for use by healthcare professionals only. It enables imaging centers to collect, archive, review, and share patient injection data. This data can include contrast media details, associated disposables, adverse events, injector activity, history of previous contrast media administration, eGFR information, and other pre-exam alerts, such as previously reported allergies. It also provides features to review protocols, create protocol libraries, send injection protocols to compatible injectors, visualize analytics and trends related to injection activity and contrast media usage.

Class I/CE Manufacturer: MEDEX

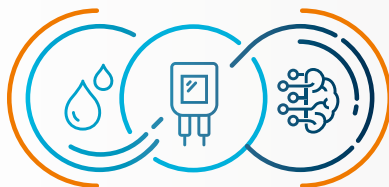
For use only in countries with applicable health authority registrations.

For complete information about precautions and optimal usage conditions, we recommend consulting the instruction for use supplied with these devices or by your local Guerbet representative(s).

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interconnected solutions for Diagnostic Imaging**



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driving your journey to excellence

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