



SmartInject

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LIFE FROM INSIDE

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SmartInject Solutions Network



SmartInject
SOLUTIONS FROM BRACCO

SmartInject Solutions

INJECTORS AND ENTERPRISE-WIDE DIGITAL SOLUTIONS

EmpowerCTA[®] + NEXO[®] Contrast Management System

Managing Contrast Dose data throughout your health system with Injectors and Digital Solutions

NEXO[®]




NEXO

Key Performance Indicators: Enterprise Statistics

Total Number of Patients	Total Number of Sites	Total Number of Injectors
2,740	2	4
Total Number of Patients	Total Number of Injectors	Total Number of CTA Types
15	166	27
Total Number of Scanners	Total Number of Rooms	Average Number of Patients per Day
3	3	5
Average Number of Injectors per Day	Average Number of Patients per Room	Average Duration Time of an Injection
5	913	11:28 AM



EmpowerCTA[®] +

Injector System

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Digital Solutions by Bracco

EMPOWERCTA[®] + NEXO[®] CONTRAST MANAGEMENT SYSTEM



SAVINGS

- Confirm clinical practices through standardization
- Reduce contrast utilization¹
- Support value initiatives for the department

EFFICIENCY

- Automated patient data and workflow
- Automated report documentation



COMPLIANCE & SAFETY

- Protocol Administration
- Drive Quality Assurance (QA) and Quality Compliance (QC) policies
- KPI's Monitor Clinical and Operational Metrics & Boost Performance

IMAGING & CONNECTIVITY

- Enterprise-wide Connectivity
- Implementation of Best Practices simplifying procedures with unique protocols



NEXO[®]

Reference: 1. Bryant M. A shared experience: Patient safety, workflow, and productivity advance to new levels. *Applied Radiology*. 2022 May/June;51(suppl):1-16.

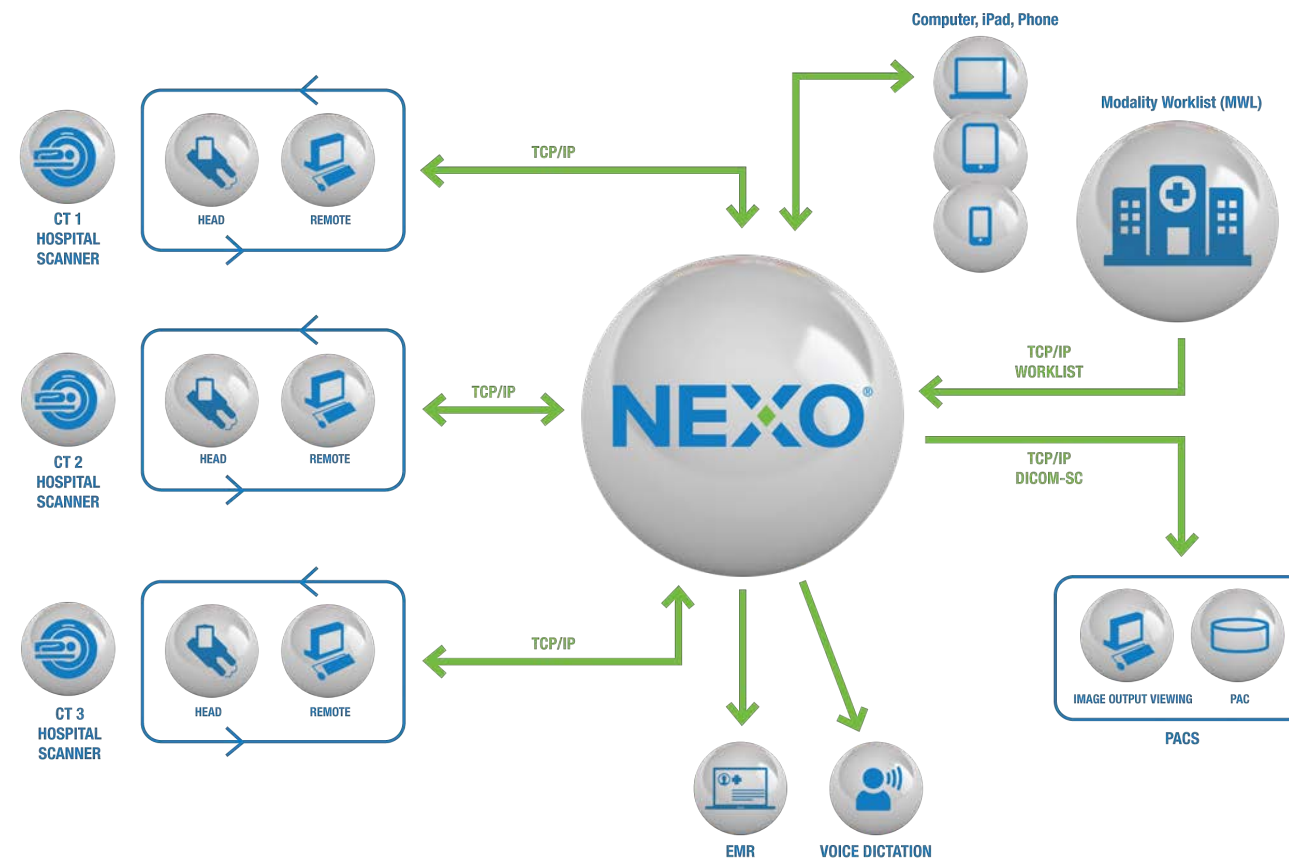


Imaging and Connectivity

ENTERPRISE-WIDE CONNECTIVITY

Seamless connectivity of patient data across the IT infrastructure

- Automated integration to RIS, PACS, EMR and Voice Dictation
- Expanded IT infrastructure supporting enterprise-wide management
- Implementation of Best Practices simplifying procedures with unique protocols





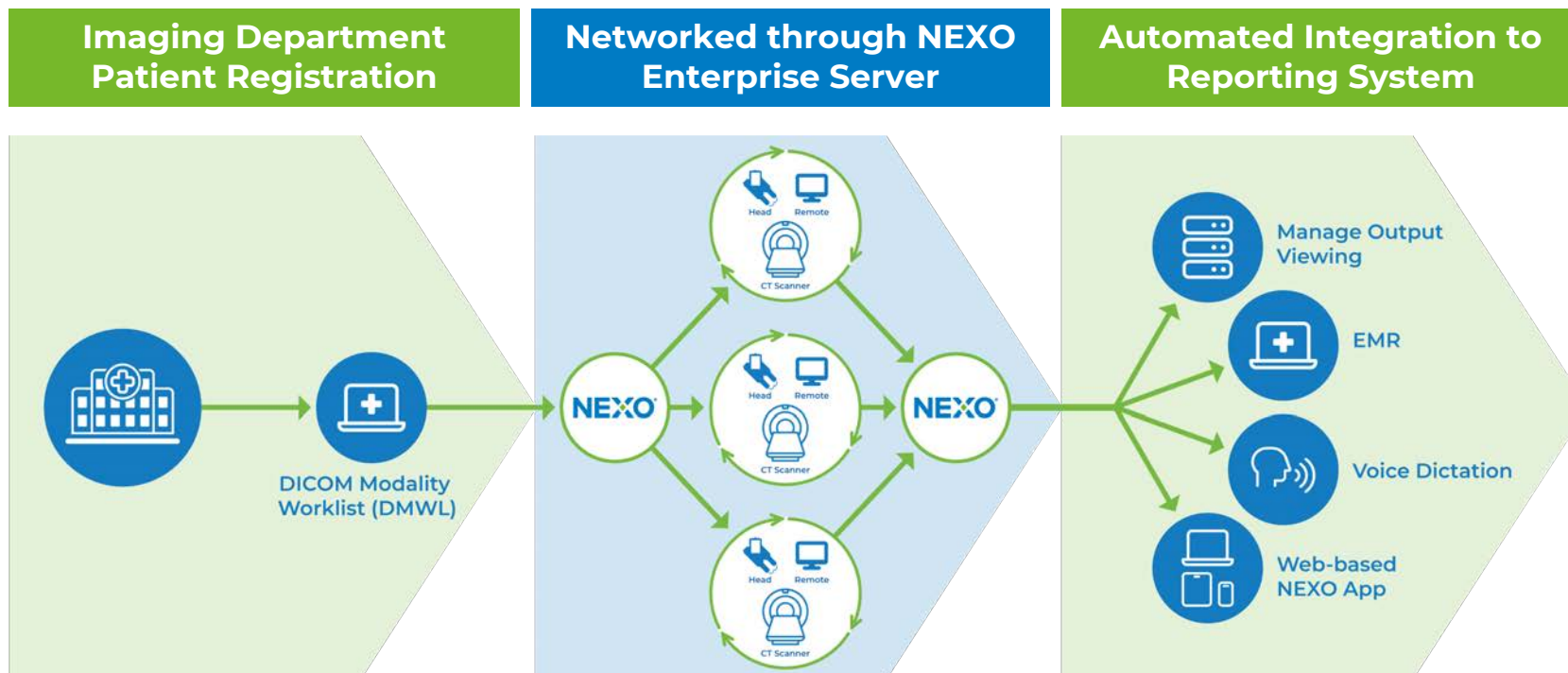
Driving Efficiency

ENTERPRISE PATIENT DATA WORKFLOW

NEXO Enterprise Server

Increase patient data accuracy and improve technologist workflow

- Automate patient data from Registration to key reporting systems





Optimizing Efficiency and Workflow

AUTOMATED MODALITY WORKLIST

Accessible patient data and contrast delivery parameters

Easy accessibility to streamline technologist workflow

- Review patient injection history at the injector remote
- Reduce manual entry errors

SCHEDULED PROCEDURES (ROOM = [ALL]) 8/8/2022 1:26:07 PM						
Name ^Δ	ID	Time	Acc. No.	Room [▽]		
BORCHARDT RODOLFO EMILE	QJQ6196251	8/8/2022 12:42 P	3LCIWPQBM	CT-Rad-01		
BROADBENT BRANDY NELLIE	QRB8879251	8/8/2022 12:42 P	RW2KGSKE	CT-Rad-01		
BUSEY KEN JESSE	FIL4912895	8/8/2022 12:42 P	JP27A58D84	CT-Rad-01		
CASTAGNA VINCENZO LUKE	LYV2733054	8/8/2022 12:42 P	9WQ6FASHE	CT-Rad-01		
CHMIELEWSKI PAULA NATASHIA	TVK9692140	8/8/2022 12:42 P	C6CYCG6BT	CT-Rad-01		
CRUMRINE ADALBERTO RONALD	EAC9501062	8/8/2022 12:42 P	L13OCJOZ1	CT-Rad-01		
DOB	Age	Race	Sex	Weight	Creatinine (mg/dL)	eGFR
5/16/1934	88	W	M	205 lbs	0.00	0.0
Procedure	Program Name	Contrast	Contrast Lot No.			
CT-Head						
NEW		SELECT		CLEAR		RETURN

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Efficiency through Enterprise-wide Documentation

AUTOMATED REPORT GENERATION AND DOCUMENTATION

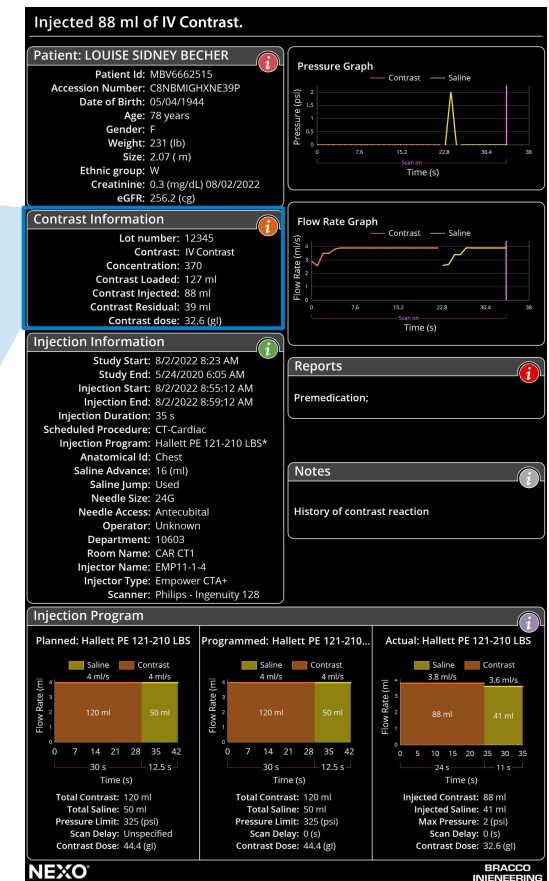
Smart, secure data supporting standardization & quality-of-care initiatives

Compliance Data

- Patient demographics
- Contrast parameters
- Procedure data
- Secure data reporting to PACS (DICOM), EMR, and Voice Dictation (HL7)

Contrast Information

Lot number: 12345
Contrast: IV Contrast
Concentration: 370
Contrast Loaded: 127 ml
Contrast Injected: 88 ml
Contrast Residual: 39 ml
Contrast dose: 32.6 (g/l)



For demonstration purposes only

Efficiency through Enterprise-wide Documentation



AUTOMATED REPORT GENERATION AND DOCUMENTATION

Smart, secure data supporting standardization & quality-of-care initiatives

Automated IV contrast injection data

- Pre-populating Modality Worklist (MWL)
- Saline Advance and Saline Jump
- Point-of-care patient data
 - Needle size
 - Needle access

Injection Information	
Study Start:	8/2/2022 8:23 AM
Study End:	5/24/2020 6:05 AM
Injection Start:	8/2/2022 8:55:12 AM
Injection End:	8/2/2022 8:59:12 AM
Injection Duration:	35 s
Scheduled Procedure:	CT-Cardiac
Injection Program:	Hallett PE 121-210 LBS*
Anatomical Id:	Chest
Saline Advance:	16 (ml)
Saline Jump:	Used
Needle Size:	24G
Needle Access:	Antecubital
Operator:	Unknown
Department:	10603
Room Name:	CAR CT1
Injector Name:	EMP11-1-4
Injector Type:	Empower CTA+
Scanner:	Philips - Ingenuity 128



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Supporting Compliance and Safety

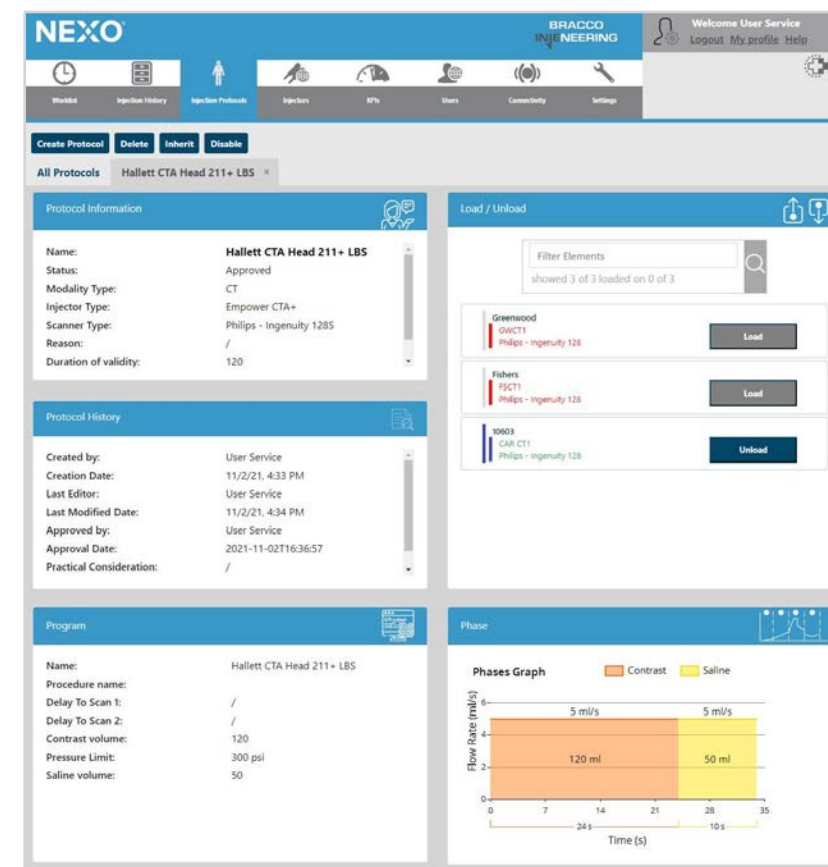


PROTOCOL ADMINISTRATION

Drive Quality Assurance (QA) and Quality Compliance (QC) policies by documenting review and approval of protocols enterprise-wide

Customized IV Contrast Protocols

- Create protocols by:
 - Body part
 - Type of contrast and concentration
 - Scanner configuration
 - Procedure
- Automate protocol creation through a centralized server-based system
- Driving standardization with improved IV contrast protocol management tools to customize clinical care



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Managing Compliance through Enterprise-wide Analytics

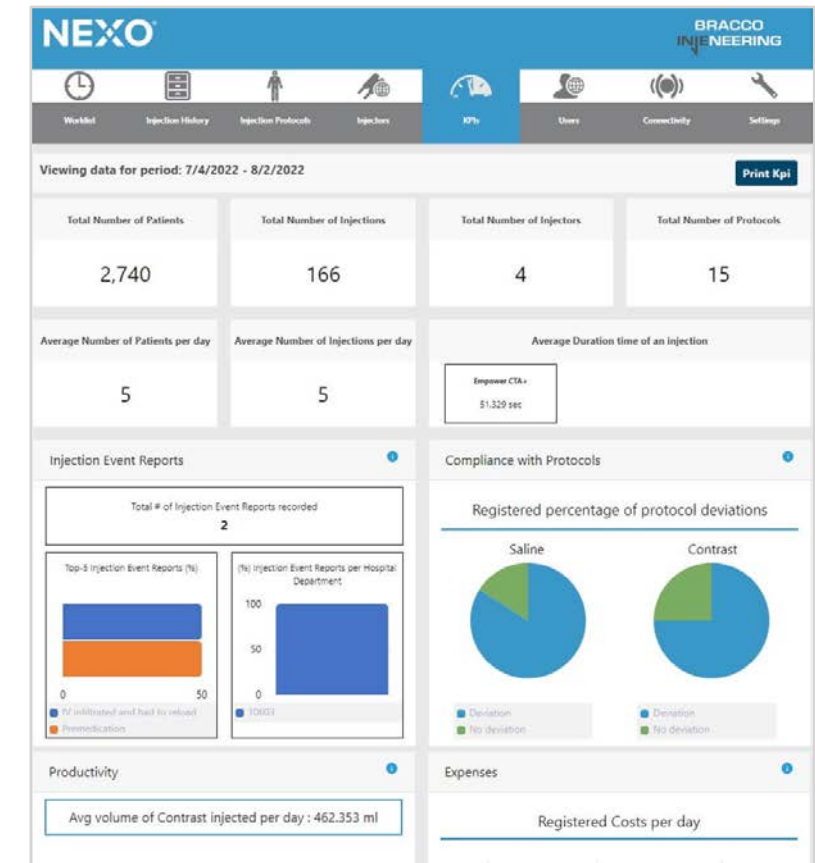


AUTOMATED DASHBOARD

Key Performance Indicators to monitor clinical and operational metrics & boost performance

Monitor all aspects of contrast delivery with KPIs that streamline procedures, improve efficiencies and increase productivity

- Manage contrast waste per exam / per patient
- Establish benchmarks of current practices
- Perform audits
- Manage metrics enterprise-wide
- Enterprise Dashboard summarizing department data



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Value of NEXO and the Return on Investment



CUSTOMER TESTIMONIAL – IMAGING ADMINISTRATION



UPDATING AND STREAMLINING CONTRAST-ENHANCED CT PROTOCOLS

Current clinical practices of IV contrast delivery



CLICK TO PLAY

EMPOWERING THE STAFF

Trends, contrast administration
& driving standardization



CLICK TO PLAY

A TEAM APPROACH

Best practices across your health system



CLICK TO PLAY



Important Safety Information

EmpowerCTA®+ Injector System

Caution: Federal law restricts this device to sale by or on the order of a physician.

INDICATIONS:

The EmpowerCTA®+ Injector System is indicated for the vascular administration of contrast and flushing media in conjunction with computed tomography (CT) scanning of the body with an optional interface to a CT scanner and an optional calculator for glomerular filtration rate (GFR). The Extravasation Detection Accessory (EDA™) is an optional accessory and is indicated for the detection of extravasations of ionic and nonionic contrast during CT procedures using a power injector.

Protocols have been independently developed and are not intended as medical advice. Bracco and Bracco Injengineering S.A. shall not be responsible for any physicians' reliance on these or any other products.

CONTRAINDICATIONS:

The EmpowerCTA®+ Injector System is not intended for use as a long-term infusion pump, nor is it intended to be used to inject any agents other than contrast or flushing media. Do not attempt to use the injector for any other purpose (such as chemotherapy or drug infusion). The EmpowerCTA+ Injector System should not be used to inject substances into nonvascular body cavities. Any applications of the EmpowerCTA+ Injector System other than those described in its Operator Manual are inappropriate and should not be attempted.

Not all products are available in all global markets.

EmpowerCTA+ is distributed by Bracco Diagnostics Inc.; 259 Prospect Plains Road, Bldg. H; Monroe Township, NJ 08831 USA; Phone: (800) 631-5245; Fax: (609) 514-2424; Customer Service: 1-877-BRACCO 9 (1-877-272-2269); Scientific Information: 1-800-257-5181 (Option 2); EmpowerCTA+ Email: empowerinfo@diag.bracco.com; Website: <https://smartinject.com/ct-solutions/>

EmpowerCTA+ is manufactured by Bracco Injengineering S.A., Avenue de Sevelin 46, CH – 1004 Lausanne, Switzerland. <https://www.bracco.com/>

NEXO® Contrast Management System

Intended Use:

The NEXO® Contrast Management System is a server-based application intended to be used as a data management and visualization system. The NEXO Contrast Management System can read,

store, share, compare/relate, as well as graphically display data and injection programs coming from RIS, PACS, and multiple enabled EmpowerCTA® Injector Systems. This device provides users with record lists, graphics, and reports about data and performances.

This device is intended for retrospective and statistical data management and visualization. It is not intended for real-time data visualization, diagnostic applications, or for any other use for which the device is not indicated. This device is only to be operated by and under quasi-continuous supervision of qualified and trained staff in an appropriately licensed healthcare facility.

The NEXO Contrast Management System is compatible with the EmpowerCTA Injector System version 8.0, and EmpowerCTA®+ Injector System version 10.0 and higher.

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NEXO is manufactured by ACIST Medical Systems, 7905 Full Road, Eden Prairie, MN 55344 USA.

About Bracco Injengineering S.A.

Bracco Injengineering S.A., located in Lausanne, Switzerland, is the most recently added Business Unit of Bracco Imaging. Bracco Injengineering is committed to developing the best-in-class integrated injection solutions with a strong heritage in research and innovation. It provides quality solutions for state-of-the-art radiology centers, offering proven injection technology built on Bracco Imaging's expertise.

Thanks to this strengthened product portfolio, including the EmpowerCTA+ Injector System, EmpowerMR® Injector System, and NEXO® Contrast Management System, Bracco Imaging will be able to focus on constant innovation, not only for devices but also for software development and data management.

EmpowerCTA, EmpowerMR, IRISCT, and NEXO are registered trademarks of ACIST Medical Systems, Inc.

FastLoad is a trademark of ACIST Medical Systems, Inc.



THANK YOU

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