

UPGRADE YOUR CONTRAST DELIVERY

There are many clinical benefits to administration of saline pre- and post-contrast injection



Optimize pre-contrast test injections¹

- Confirm vein patency using bolus injection rate
- Minimize risk of extravasation with control at the patient's bedside



Enhance study quality

- Create efficient, tight contrast bolus²
- Reduce streaking and beam-hardening artifacts³
- Avoid contrast pooling in arm veins⁴



Eliminate excess contrast

- Saline jump allows for the immediate advancement, or "jump" to saline in order to:
 - Reduce overall dose^{2,5}
 - Reduce potential of iodine-based kidney stress³



Post-medication injection IV maintenance

- Consistent with post-medication delivery standards of care⁶
- Support patient hydration³

The individuals who appear are for illustrative purposes only. All persons depicted are models and not real patients or healthcare professionals.

Support best practices using controlled saline administration

- User selectable Saline Advance volumes
- Automatic post contrast saline flush
- Optional contrast to Saline Jump

ORDERING INFORMATION

DESCRIPTION

DESCRIPTION	SKU
FASTLOAD™ CTA DUAL SYRINGE PACK	017354
FASTLOAD™ CTA DUAL SYRINGE PACK WITH SPIKES	017355
EMPOWERCTA®+ "Y" CONNECTING TUBING	100114



REFERENCES: 1. American College of Radiology, ACR Manual on Contrast Media, 2021. 2. Auler MA, Heagy T, Aganovic I, et al. Saline chasing technique with dual-syringe injection systems for multi-detector row computed tomographic angiography: rationale, indications and protocols. *Curr Problems Diagnostic Radiology*, 2006;35(2):1-11. 3. Bae KT. Optimization of contrast enhancement in thoracic MDCT. *Radiol Clin North Am*. 2010;48(1):9-29. 4. Cademartini F, van der Lugt A, Lucicenti G, et al. Parameters affecting bolus geometry in CTA: a review. *J Comput Assist Tomogr*. 2002;26(4):598-607. 5. Cademartini F, Mollet N, van der Lugt A, et al. Non-invasive 16-row multislice CT coronary angiography: usefulness of saline chaser. *Eur Radiol*. 2004;14(2):178-183. 6. Thompson L. Flushing the line between medications in IV administration of multiple agents. *Oncology Nurse Advisor* website. <https://www.oncologynurseadvisor.com/oncology-nursing/flushing-the-iv-line-between-medications/article/509061/>. Updated July 12, 2016. Accessed April 17, 2018.

EmpowerCTA[®] Injector System

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 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); Professional Services: 1-800-257-5181 (Option 2); EmpowerCTA[®] Email: empowerinfo@diag.bracco.com; Website: <http://imaging.bracco.com/us-en/products-and-solutions/contrast-injectors/empowercta+> EmpowerCTA[®] is manufactured for Bracco Injengineering S.A., Avenue de Sevelin 46, CH-1004 Lausanne, Switzerland. <http://imaging.bracco.com>.

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 develop 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 CT ExpreS[®] 3D Contrast Media Delivery System, EmpowerCTA[®] Injector System, EmpowerMR[®] Injector System, NEXO[®] Contrast Management System and NEXO [DOSE][®] Multi-Modality Radiation Informatics, Bracco Imaging will be able to focus on constant innovation, not only for devices, but also for software development and data management.

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