



## Inject brilliance to syngo DynaCT: Diluted contrast for 3D cross-sectional imaging

### Imperative in the angio suite

How much do you treat in the 3<sup>rd</sup> dimension? With a trend of performing ever more complex treatments minimally-invasively in the angio suite, the availability of 3D information is gaining importance for procedure outcome. Over 12 years after inventing 3D imaging in the angio suite, Siemens Healthineers is constantly pushing boundaries to advance the quality of syngo DynaCT and add useful tools and applications for clinical workflow.

### Empower the powerful

Brilliant DynaCT images do not depend on the angio system alone. The recommendation for optimal cone-beam CT image quality without star artifacts is diluted contrast medium. By combining syngo DynaCT with Medtron's Accutron HP-D<sup>2</sup> double head contrast medium injector, you can easily inject diluted contrast medium and perform intravenous injections in the angio suite with an easy to use system while enhancing patient safety.

The Accutron HP-D delivers the precise concentration of contrast medium needed for a scan. The resulting images are fit for detailed lesion diagnosis, such as measurements of stenosis length, width of neck and size of an aneurysm, and identification of tumor feeding vessels.

The Accutron HP-D's contrast dilution feature

- improves vessel quantification,
- is on-spot with injection protocols, and
- helps tailoring the contrast burden according to the patient's clinical status.

### Accutron HP-D injector for

- classic injection (pure ICM\*)
- phased injection (alternating ICM and physiological saline)
- diluted injection (homogeneous ICM dilution, mixed with physiological saline)
- complex injection (dilution and phase)

*"syngo DynaCT has become increasingly important in our clinical practice. I myself remember a lot of cases where I couldn't have finished the procedure without using syngo DynaCT."*<sup>1</sup>

Prof. Frank Wacker, MD, Institute for Diagnostic and Interventional Radiology, Hannover Medical School, Hannover, Germany

\*ICM – iodinated contrast medium

## Features of Accutron HP-D at a glance

Feature	Description
Easy to Use	Easy adjustment of contrast media concentration
	Meets procedure requirements without syringe barrel change
Improves 3D image representation	Allows for optimization of injection parameters for individual 3D protocols
	Reduces star artefacts in syngo DynaCT MPRs (multi-planar reformations)
	Multiple phase injection profiles
Flexible	Dedicated CT mode for IV injections
Allows multi-phase injections	Enables multiple phase X-ray delays & auto-hold function
	Pushed bolus injection profiles



Medtronic's Accutron HP-D double head contrast medium injector

*"The Accutron HP-D is the perfect complement to our high-end angio suite. The double-head principle enables us to acquire DynaCT in addition to regular angiographies at any time – without changing our set-up or using manual dilution. Any protocol can be used, from rotational angiography with non-diluted contrast medium to highly selective parenchymal imaging using low contrast medium concentrations with no additional and time-consuming preparation."*<sup>1</sup>

**Prof. Bernhard Meyer, MD**, Institute for Diagnostic and Interventional Radiology, Hannover Medical School, Hannover, Germany

## Added benefit: Patient safety

Besides 3D image quality, patient safety is another important consideration when using contrast medium. Increasing incidence of renal impairment requires prudent application of contrast media doses. Shorter syngo DynaCT scan times, automated diluted contrast

and dedicated CT protocols of the Accutron HP-D help reduce the amount of iodinated contrast agent as well as radiation dose during 3D angiography in both thorax and abdominal procedures. A winning combination with many facets.

### Contact:

Abhi Gulhar (abhinav.gulhar@siemens-healthineers.com)

### Siemens Healthineers Headquarters

Siemens Healthcare GmbH  
Henkestr. 127  
91052 Erlangen, Germany  
Phone: +49 9131 84-0  
siemens-healthineers.com

<sup>1</sup> The statements by Siemens Healthineers' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

<sup>2</sup> Accutron HP-D by Medtronic AG is not commercially available in all countries. It is currently not commercially available in the United States. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. The information shown herein refers to products of 3<sup>rd</sup> party manufacturers (Medtronic AG), thus are their regulatory responsibility.