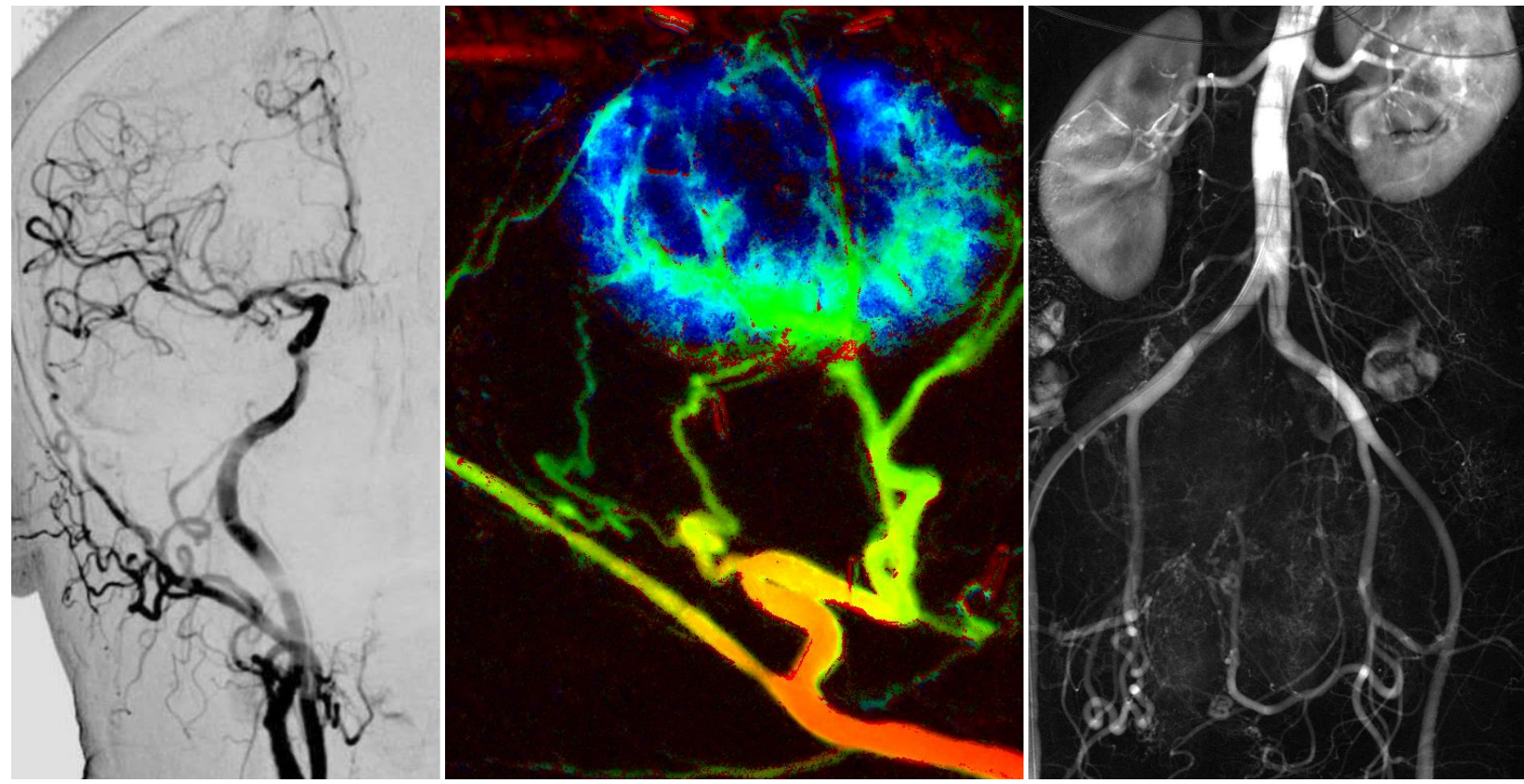


Kinepict Medical Imaging Tool

Outstanding image quality
& universal dose management

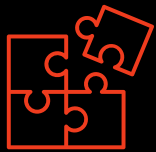


KINEPICT MAKES X-RAY ANGIOGRAPHY SAFER AND MORE POWERFUL

Kinepict Health Ltd. has the vision to revolutionize x-ray angiography. We provide an advanced image analysis solution called **Digital Variance Angiography** implemented in the Kinepict Medical Imaging Tool that multiplies the abilities of your angiography suite.

KINEPICT MEDICAL IMAGING TOOL

- ... can visualize blood vessel structures by detecting the movement of the contrast medium bolus in standard-of-care angiography examinations. The platform independent software has provided safer and faster interventions for many thousand patients so far in our reference site network worldwide.



Characteristics that make the software unique for interventional radiologists



Digital Variance Angiography algorithm



Automatic image generation, display and adjustment



Seamless integration, secure file handling, transfer to and from PACS



Dual user interface: operating room and workspace

DIGITAL VARIANCE ANGIOGRAPHY

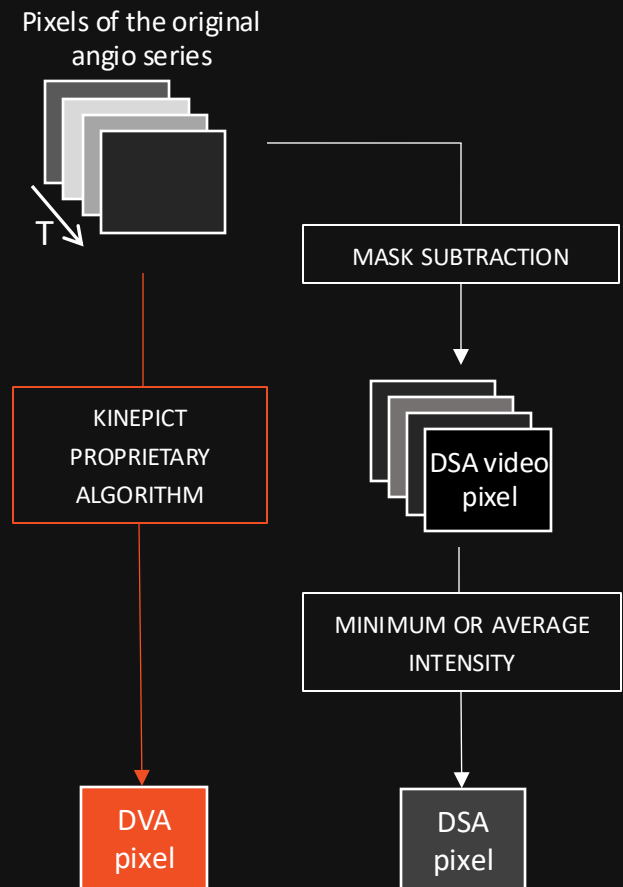
Digital Variance Angiography (DVA) images are **generated from the unsubtracted X-ray image series** by calculating the standard deviation of intensity values for every pixel.

The proprietary algorithm of Kinepict **enhances the contrast media-related visual information** and suppresses the noise, thereby the image quality is greatly improved. **This quality reserve assures universal dose management capabilities for DVA.**



DSA

DVA



Above: Schematic diagram of DVA and DSA calculation

Left: DSA and DVA side-by-side comparison

BENEFITS: HIGHER IMAGE QUALITY

DVA offers higher image quality independently from the contrast media used

Iodinated contrast media



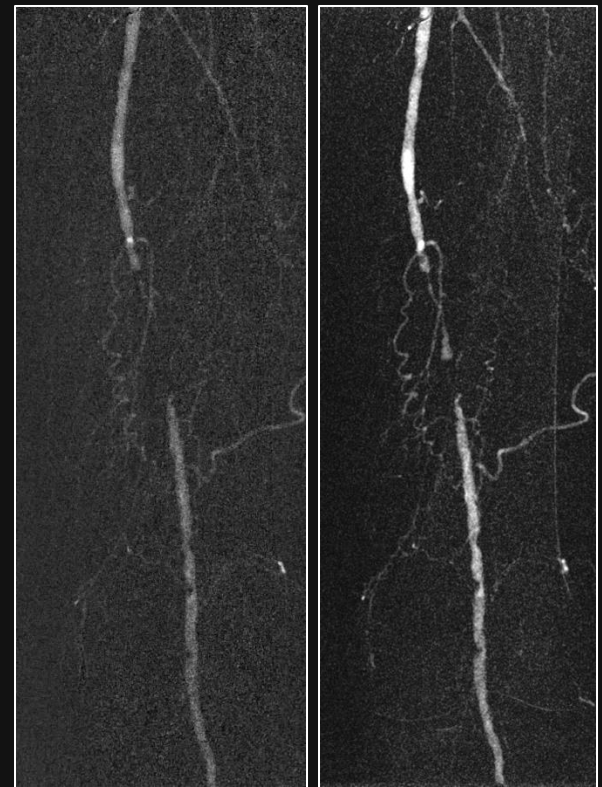
DSA

DVA

Gyano et al, 2019, *Radiology*, 290:246-253

Thomas et al, 2022, *JVIR*, 33:104-112

Carbon dioxide



DSA

DVA

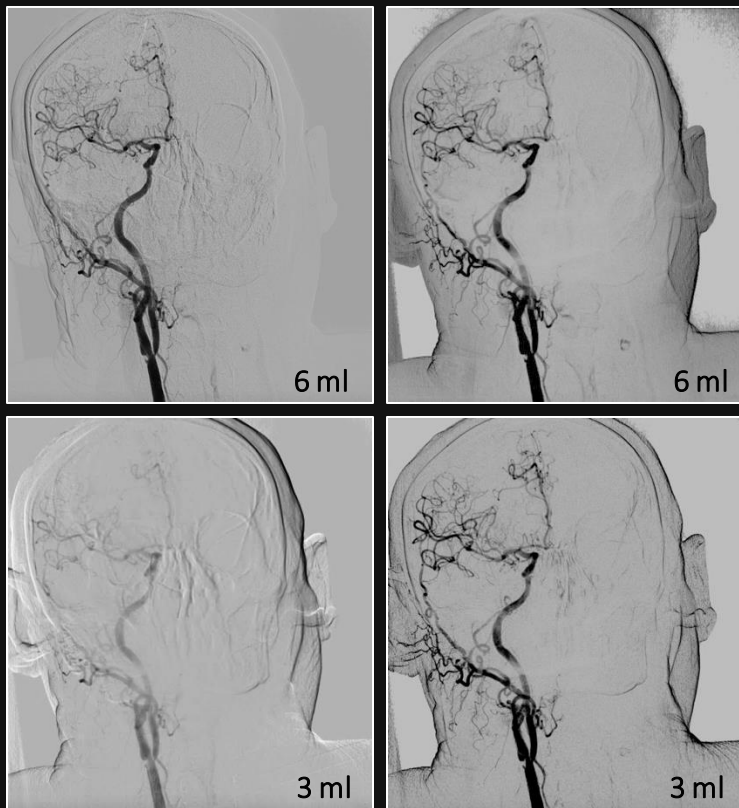
Orias et al, 2019, *Invest Radiol*, 54:428-436

Gyano et al, 2021, *CVIR*, 43:1226-2331

BENEFITS: DOSE MANAGEMENT

DVA allows the substantial reduction of contrast media or radiation dose without compromising the image quality and diagnostic value of angiograms

Contrast media reduction



DSA

DVA

Orias et al, 2020, Eur J Radiol Open 7:100288

Radiation dose reduction



DSA

DVA

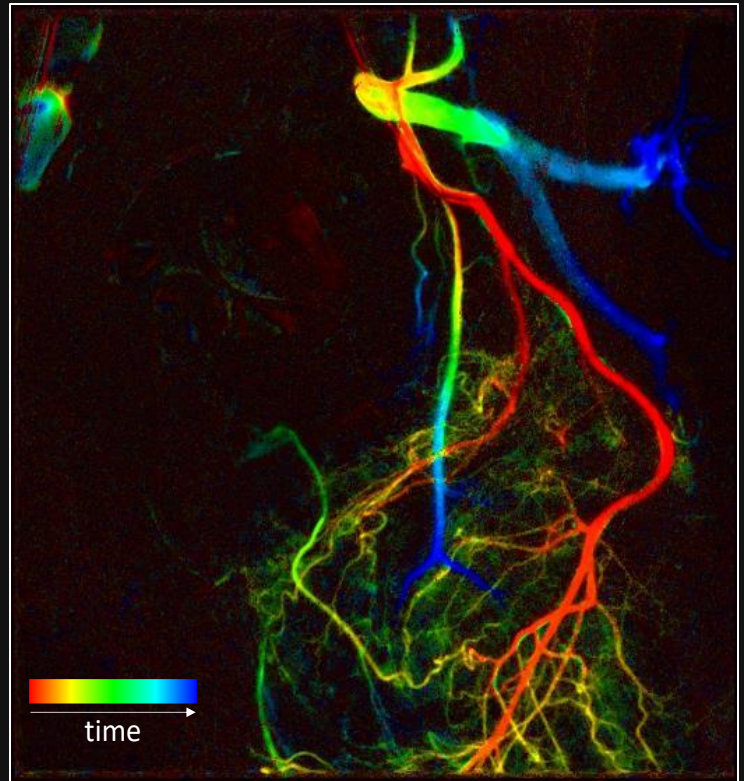
Gyano et al, 2021, Sci Rep 11:21790
Sotonyi et al, 2023, J Cardiovasc Dev Dis 10:198

BENEFITS: COLOR-CODED IMAGING

Color-coded DVA (ccDVA) images and videos visualize the arrival latency of the contrast media allowing the evaluation of hemodynamic conditions. This feature is especially useful in embolization procedures, as enhances the visibility of small arteries and tissue blush



DSA



ccDVA



**VALIDATED IN CLINICAL ENVIRONMENT:
OVER 6.000 PATIENTS AND 100.000 IMAGES**



Contact us at www.kinepict.com

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