Musculoskeletal MR imaging on Ingenia

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Ingenia 1.5T and 3.0T build on the high standard of musculoskeletal imaging that Philips included on the Achieva platform. A full set of dedicated coils is continued on Ingenia, with short cabling and easy connection on the table.

**Ingenia coils offer new ways of working**

On Ingenia, the FlexCoverage anterior coil combined with the integrated posterior coil are designed to improve workflow for many MSK applications, such as long bone imaging, hip imaging, and total spine, including the ability to tilt the coil when imaging patients with kyphosis.

With the Xtend imaging space, the large coverage of the coil arrays allows efficient acquisition of the whole femur without the need for coil repositioning during the examination. Similarly, high quality total spine examinations can be performed without worrying about selecting the right coil elements for high SNR. The operator selects a FOV, and the system determines which elements to use for highest SNR.

Ingenia’s dS Flex coils can be combined with the integrated posterior coil to allow users to create their own combinations. Dedicated, multi-channel MSK dS coils provide high SNR and push the limits of speed and resolution, while supporting minimal patient movement. The dStream interface eases coil set-up and digitizes the signal close to the coil.

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**Knee**

For knee, the 8-channel dS Knee coil (top photo) is available, as well as the larger diameter 16-channel dS T/R Knee coil for 3.0T (bottom photo) that accepts a wider range of the patient population.

**Wrist**

The dS Wrist 8ch coil delivers high resolution images to visualize small ligaments. The excellent off-center field homogeneity of Ingenia allows comfortable, by-the-side positioning.

**Shoulder**

For shoulder imaging, a fully digital 8-channel dS Shoulder coil is available.
Foot and ankle
The boot-model dS FootAnkle 8ch coil is excellent for foot and ankle imaging. The new foot/ankle support pad allows foot positioning that helps avoid phase wrap.

Elbow
The dS Small Extremity 8ch coil, provides excellent elbow images and also allows imaging of the complete hand, from wrist to fingertips.

Total spine
Positioning is easy with the dStream HeadSpine coil solution. The possibility to tilt the dS HeadSpine coil helps to support patients with ankylosing spondylitis.

Long bones
For imaging the long bones the FlexCoverage anterior coil is used together with the FlexCoverage posterior coil integrated under the table.

More features benefit MSK imaging
Even with the wide 70 cm bore, Ingenia features a powerful gradient set capable of delivering 45 mT/m gradient amplitude, needed for 0.2 mm resolution images, which are becoming a part of routine 3.0T imaging.

With Ingenia’s flexible oversampling, the planning software clearly indicates if sufficient anatomy is covered to prevent wrapping into the image. Margins may be set asymmetrically, for instance for off-center anatomy such as shoulder or for the feet, where the risk of wrapping primarily comes from one side. The user interface helps reduce scan times, while giving visual control of wrap.

With integrated, dedicated and flexible coils, the workflow enabled by Xtend, and Philips experience and knowledge to back it up, the Ingenia 1.5T and 3.0T systems deliver the solution to your MSK imaging needs.

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