

**PHILIPS**

Flex coil P-140

MR coils

MR imaging beyond proton

Multi-nuclei (MN) imaging and spectroscopy is a key area of leading-edge clinical investigation. Adding Multi Nuclei to your Philips 3.0T MR system opens a window of research into other nuclei, in search of metabolic and functional information.

The transmit-receive P-140 flex coil, with a 14 cm diameter, allows you to perform phosphorus (³¹P) imaging, spectroscopy and research studies, across all anatomies. Benefit from improved ³¹P signal-to-noise ratio (SNR) and simplified ³¹P spectra¹, by combining body coil decoupling with this transmit-receive surface coil. Start to measure the dynamics of muscle metabolism using ³¹P spectroscopy by visualizing the changes in PCr / Pi-ratio over time.

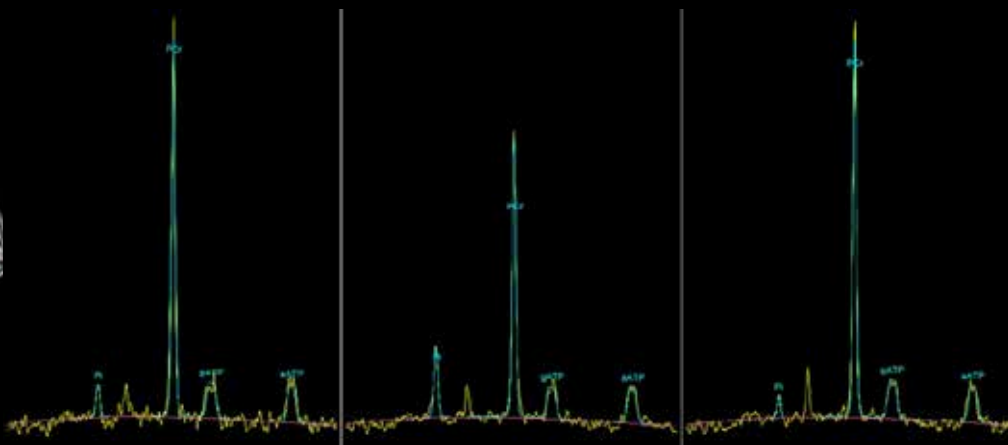
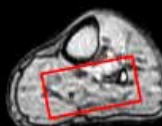
³¹P imaging or spectroscopy can be run and reconstructed directly from the standard user interface. The ExamCard interface immediately recognizes the P-140 flex coil. And the ³¹P nucleus is just a scan parameter like any other sequence parameter. Reconstruction and viewing of ³¹P images or spectra, as well as the process for sending the data to PACS is fully integrated, so workflow does not differ from proton imaging.

Combined with our Multi Nuclei specialist package, the transmit-receive P-140 flex coil delivers the confidence to explore new imaging pathways and the speed to integrate multi-nuclei studies in your day-to-day workflow.

¹ Compared to non-decoupled Multi Nuclei imaging and spectroscopy results.

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Nucleus	31P (phosphorus)
Systems	3.0T dSync systems with Multi Nuclei
Coverage	14 cm
Coil solution type	Transmit-receive, single channel
Applications	Multi-purpose, all anatomies
Coil connection	T/R interface



Planning of the spectroscopy voxel in the calf-muscle

Dynamic 31P spectroscopy of the calf muscle (5 sec/acq, 50 dynamics) showing how the signals of PI and PCr change during exercise

Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Not available in the USA

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