Technical advances in the recent years have led to the development of hybrid systems that combine simultaneous PET and MR into one scanner. This puts a demand for PET compatible RF coils that do not compromise the MR image. RAPID Biomedical has used its RF expertise to develop a set of coils dedicated to this application.

First in vivo results of simultaneous PET/MR in breast cancer patient using the dedicated breast coil. MR protocol includes T2 TSE sequence without fat suppression, a T1w dynamic 3D acquisition with subtraction images post–pre Gd-DTPA contrast agent administration. The additional value of simultaneous PET is illustrated, showing 18F-FDG uptake in the lesion.

Image Courtesy: I. Dregely, Nuklearmedizin, Technische Universität München
Above samples are acquired with a Siemens 3 T Biograph mMR.

Specifications

- 16 receive elements
- supports parallel imaging
- optimized MR image quality
- PET compatible
- patient comfort by ergonomically formed coil housing and cushions
- low housing profile for more bore clearance
- maximized imaging volume (2L on each side)
- available for Siemens Biograph mMR and GE Signa PET/MR
- individually adaptable to non PET/MR systems

* Regulatory requirements for medical products will vary by country and MR system. Please contact us at info@rapidbiomed.de or info@rapidmri.com (USA, Canada, and South America) to determine approval status for products mentioned on this product sheet.