Endorectal Coils for High Resolution MRI Imaging...

...of the prostate, rectum, cervix and surrounding anatomy for 1.5T and 3.0T MR Scanner Systems
MRI Solutions You Trust

The Medrad eCoil provides high resolution imaging of the prostate, colon or cervix and surrounding pelvic tissue. It offers high SNR and provides the sensitivity needed for spectroscopy, especially at 3.0T. The small FOV, high spatial resolution, sensitivity, and specificity of endorectal coils enable clear pictures that can assist with diagnosis and treatment planning for diseases of the prostate, colon, cervix, and surrounding anatomy.

Medrad® eCoil™ MR Endorectal Coil

High SNR and Homogeneity for Improved Image Quality
Patented technology
- Enables close placement for more detail in small FOV
- Can assist with spectroscopy
- Can assist with cancer staging, and treatment planning

Prostate Coil 1.5T and 3.0T
- Provides visualization of prostate’s internal architecture and periprostatic structures like prostate capsule and neurovascular bundles
- Enables precise, accurate images for more diagnosis and treatment options
- Conforms to prostate size and shape for immobilization
- May assist in prostate cancer diagnosis and staging

Key eCoil Prostate MR Applications
- Diagnose patients with high PSA and repeat negative biopsy
- Distinguish between intracapsular / extracapsular disease
- Localize and characterize tumors to aid in staging
- Assess local recurrence
- Plan radiation therapy treatment

Colorectal Coil 1.5T only
- Provides visualization of the colon including bowel wall layers, surrounding tissue, and rectal wall

Cervix Coil 1.5T only
- Provides visualization of the cervix including lymph nodes and soft tissue, thin rim of cervical stroma, and other cervical structures
Endorectal Prostate MRI and the addition of high spatial DCE-MRI facilitate appropriate treatment planning.

Case Study 3.0T

A 58-year old patient with PSA of 14.8, biopsy proven cancer with Gleason score of 7 (3+4). Clinical evaluation predicted extracapsular extension on the right side. Bilateral tumor was found mostly on right side on MRI. Proximity to neurovascular bundles and probable extracapsular infiltration was noted. Radical retropubic prostatectomy, as opposed to nerve sparing surgery, was elected, based on MRI results, to reduce the risk of local recurrence. Pathology confirmed MRI diagnosis: Stage T2c, bilateral (R>L) cancer confined to the gland.

Case Study 1.5T

A 52-year old patient interested in “active surveillance” presented with a PSA of 7.9 ng/nL and biopsy proven prostate cancer (10% of Gleason 3+3 cancer in 1 out of 12 cores) in the left midgland. Endorectal MRI/MRSI used to evaluate extent of cancer and determine the best treatment path. MRI/MRSI showed cancer in the peripheral zone of the left base and midgland along with suspicion for extracapsular extension. Based on MRI/MRSI findings, patient underwent high dose rate brachytherapy combined with 22 sessions of external beam radiation therapy and neoadjuvant androgen deprivation therapy.
Coil Dimension
4-ch 1.5T GE Interface Device
5.20 in x 5.63 in x 3.74 in (2.1 lbs)
13.2 cm x 14.3 cm x 9.5 cm (.95 kg)

8-ch 1.5T GE Interface Device
17.5 in x 17.5 in x 8.5 in (9 lbs)
44.4 cm x 44.4 cm x 21.5 cm (4.0 kg)
(includes packaging)

8-ch 3.0T GE Interface Device
17.5 in x 17.5 in x 8.5 in (9 lbs)
44.4 cm x 44.4 cm x 21.5 cm (4.0 kg)
(includes packaging)

eCoil Sensitive Volume
Sagittal: 10-20 cm
Axial: 10-20 cm
Coronal: 10-20 cm

Warranty
Product is warranted to be free from defects in materials and workmanship for a period of twenty-four months from date of shipment. Please see the published warranty for details.

Coil Configurations

Interface Device

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<tr>
<th>GE®</th>
<th>Siemens®</th>
<th>Philips®***</th>
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<tbody>
<tr>
<td>4-ch 1.5T Interface (M64ERA)</td>
<td>1.5T Interface Device for Magnetom Symphony™</td>
<td>1.5T Interface Device for Intera™</td>
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<tr>
<td>8-ch 1.5T Interface Device (M64ERA8-HD)</td>
<td>1.5T Interface Device for Magnetom Avanto™</td>
<td>1.5T Interface Device for Achieva™</td>
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<tr>
<td>8-ch 3.0T Interface (M128ERA8-HD)</td>
<td>1.5T Interface Device for Magnetom Espree™</td>
<td>3.0T Interface Device for Achieva™</td>
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3.0T Interface Device for TRIO TIM™

eCoil Probes

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* Device available from Bayer and GE.
** Device available through Siemens only. Please contact your Siemens sales representative.
*** Device available through Philips only. Please contact your Philips sales representative.

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- Knowledgeable and reliable technical service
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RAD-MR-12-05187 December 2012