**Presenter:** Lee Mitsumori  
**Title of Abstract:** Interstitial MR Lymphangiography  
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**Modality:** PET  
**Organ System:** CV  
**Scientific and/or Clinical Significance?** This exhibit summarizes the clinical problem and microsurgical treatment of lymphedema, and describes how to perform and interpret an MR lymphangiogram  
**Relationship to existing work** MR lymphangiography is a new service at our institution to support our plastic surgeons to perform new supermicrosurgical techniques.  
**Purpose**  
**PURPOSE** To describe the indications, MR imaging, and interpretation of interstitial MR lymphangiography  
**CONTENT ORGANIZATION** - description and treatment of lymphedema  
- anatomy of subdermal lymphatics  
- problem of lymphedema  
- microsurgical treatment options  
- non-invasive lymphatic imaging with MR technique  
- intradermal contrast administration imaging protocol  
- pulse sequences  
- 3D image post-processing  
- Maximum intensity projection reconstructions  
- Multiplanar reformations  
- Volume rendering  
- Interpretation and example clinical cases  
- Report template  
**MAJOR TEACHING POINTS**  
- New microsurgical techniques are now available for the treatment of lymphedema.  
- Interstitial MR lymphangiography is a noninvasive means of depicting abnormal lymphatics in the affected extremity that can guide treatment decisions.