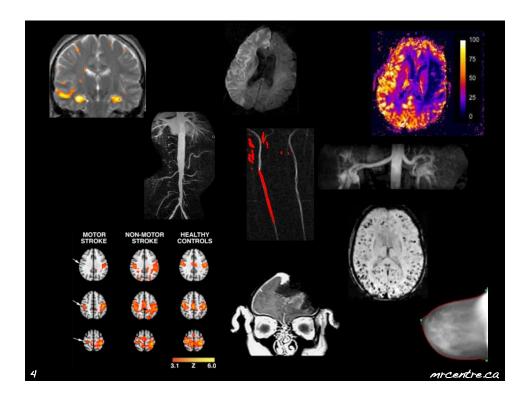
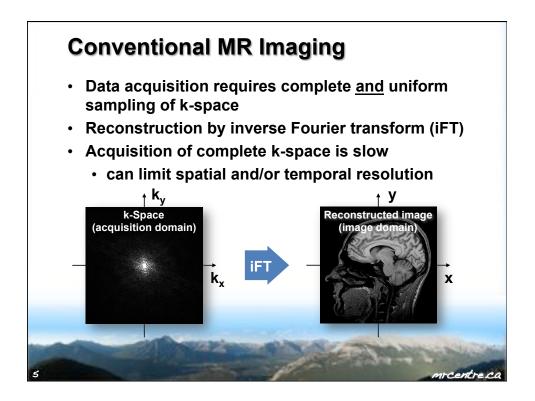


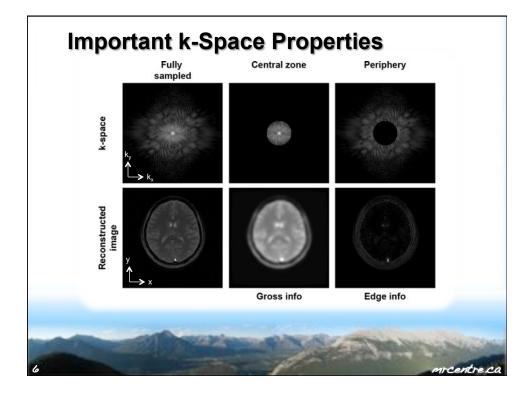
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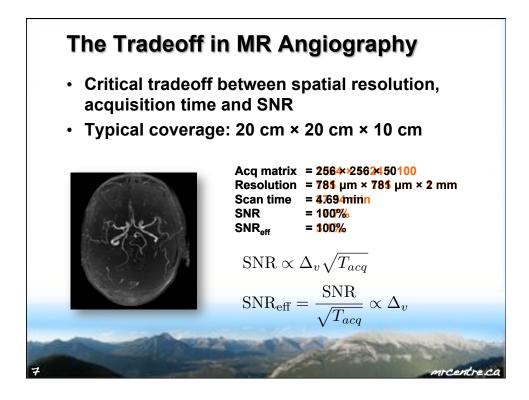
Magnetic Resonance (MR) Imaging

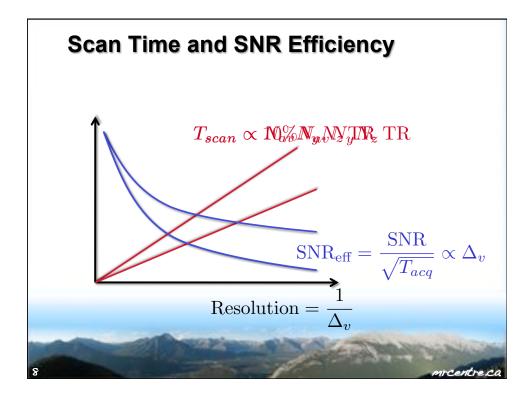
- Non-invasive <u>clinical</u> imaging modality
 - visualization of anatomic structure
 - investigation of body functions
- · Detection or staging of numerous diseases
 - cancer, cardiac disease, stroke, etc.
- Sensitivity to detect pathologies (disease) relies heavily on quality of acquired images, *e.g.*,
 - spatial and temporal resolution, signal-tonoise ratio
 - total acquisition time
 - image contrast and artifacts, ...

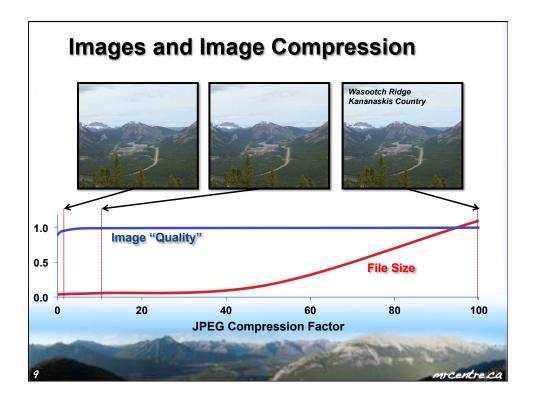


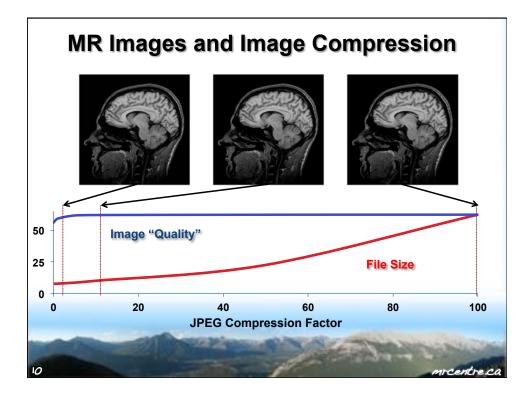


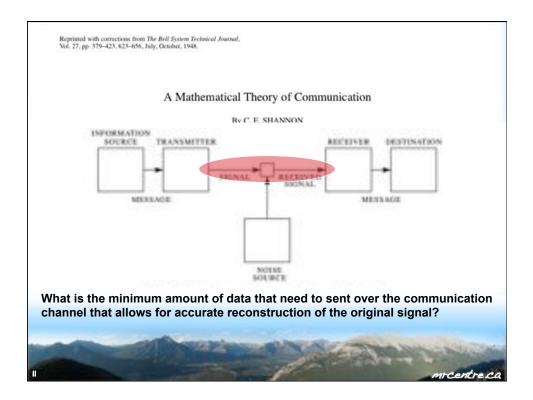


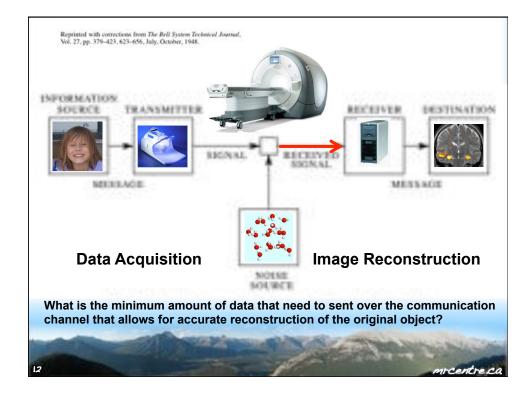


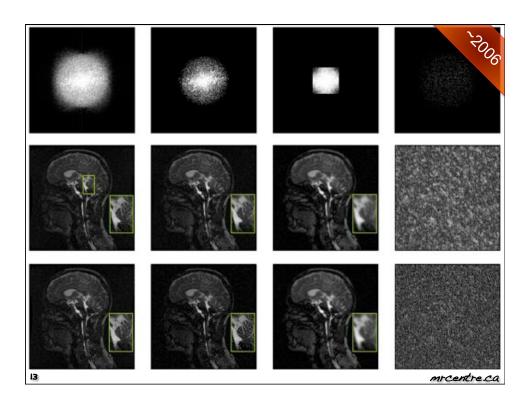


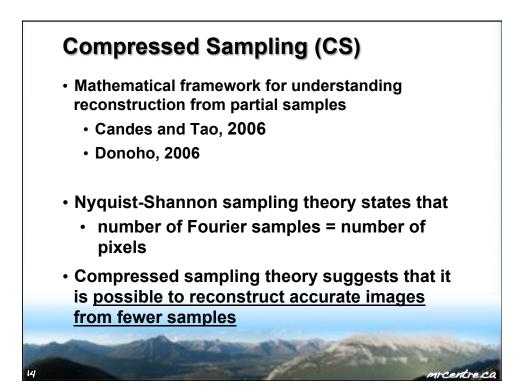


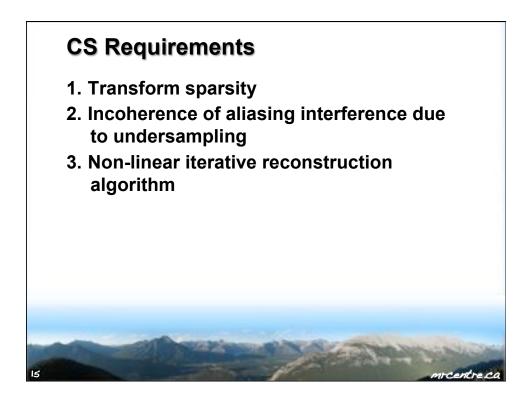


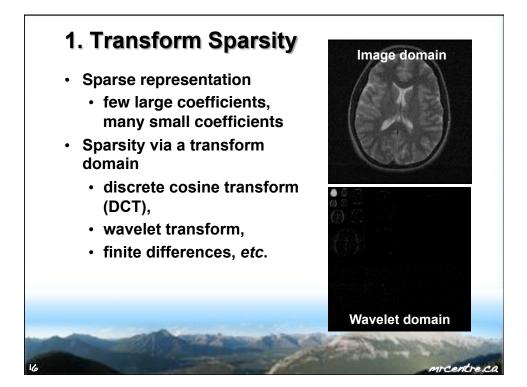


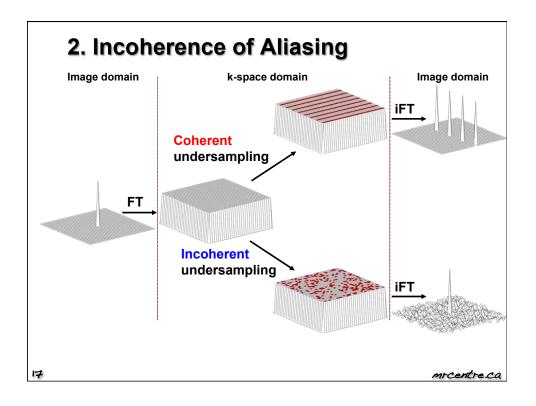


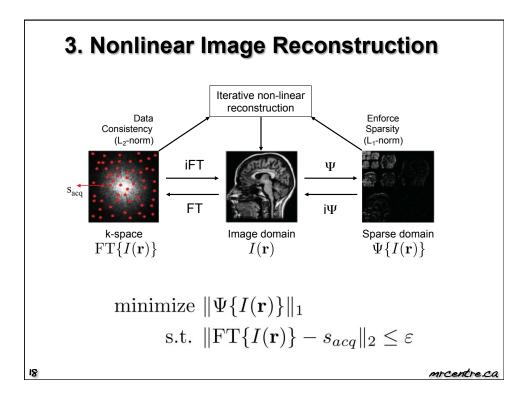


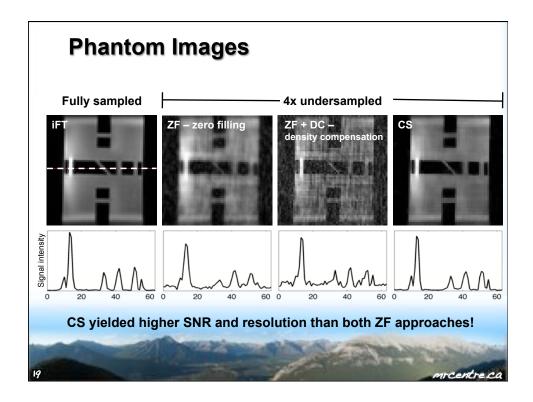


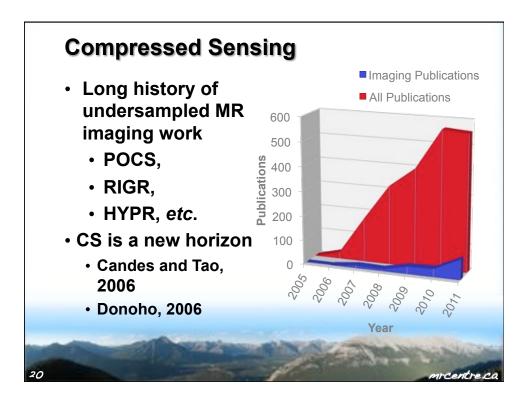


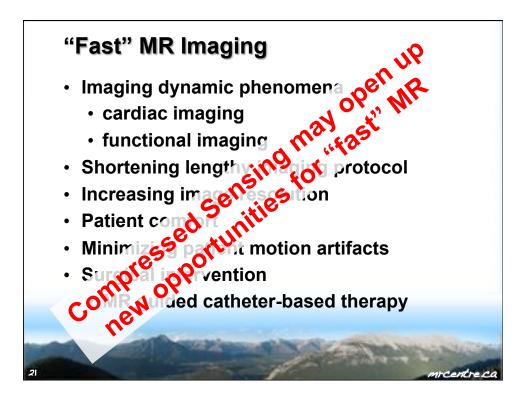


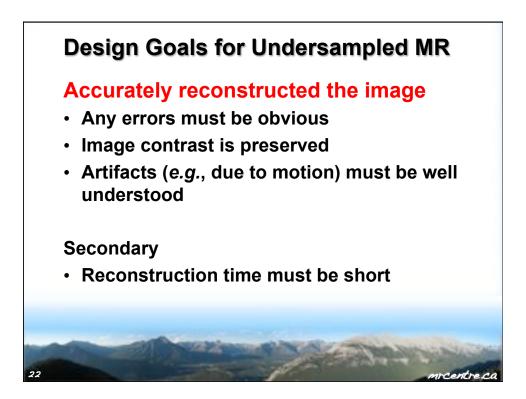


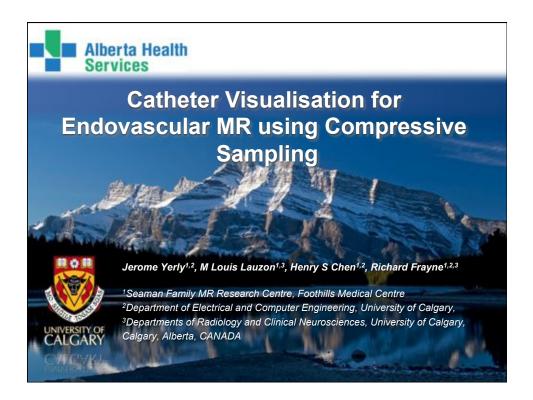


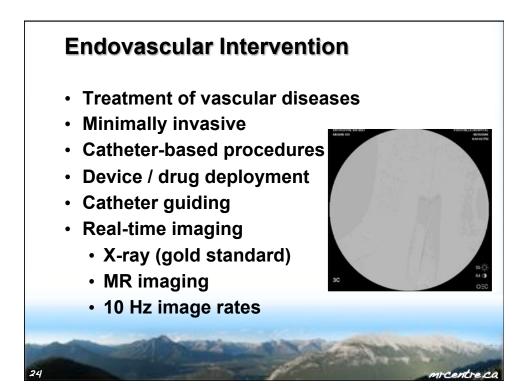


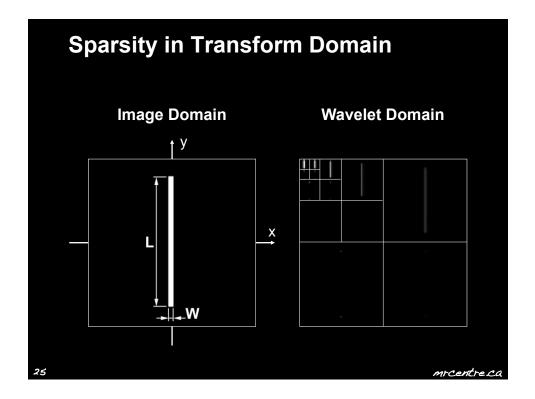


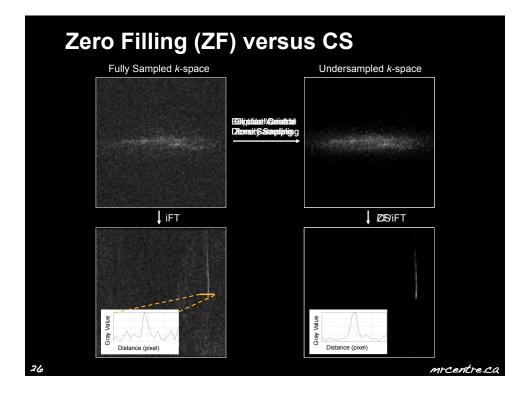


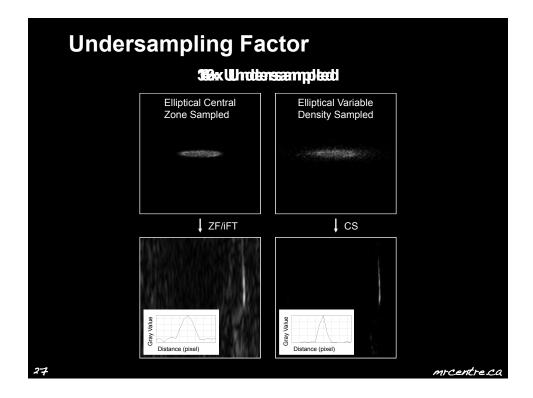


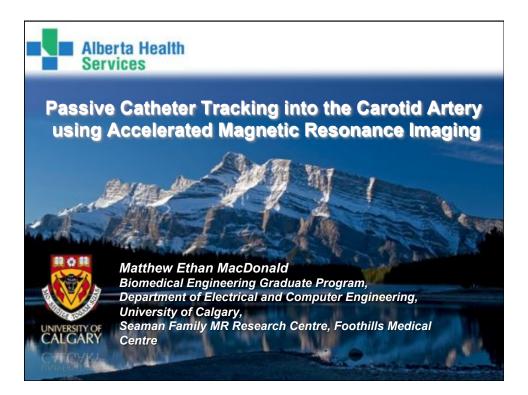


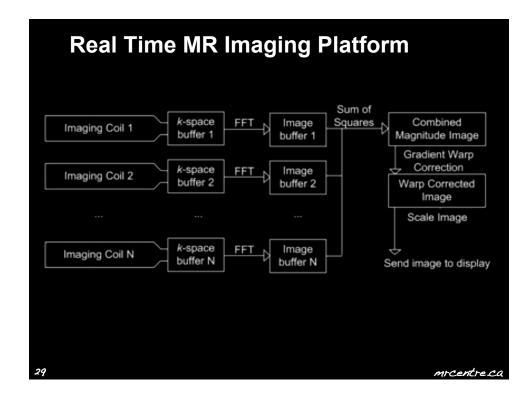


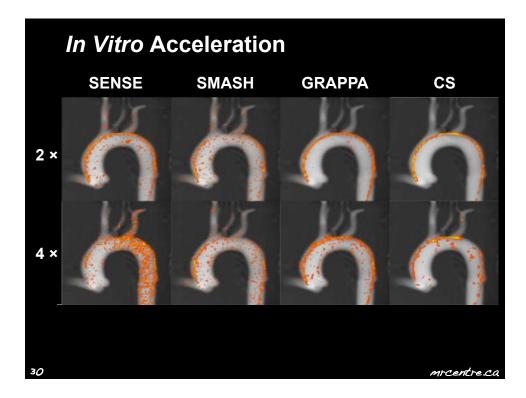


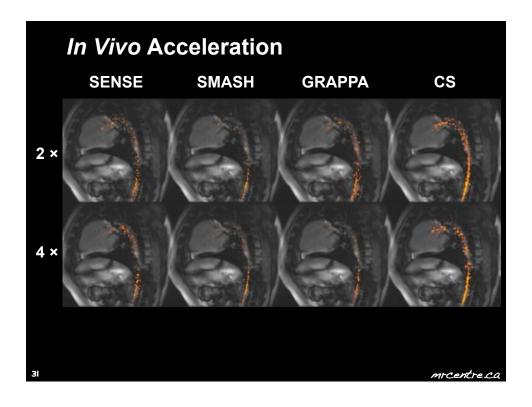


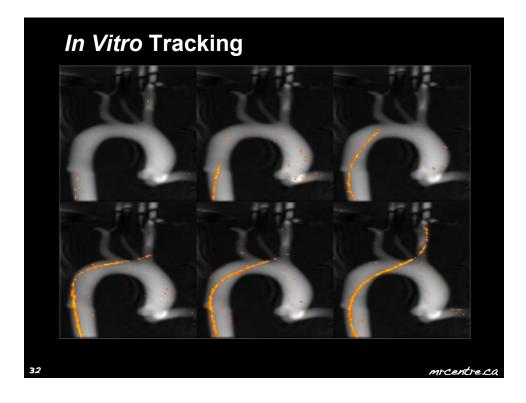


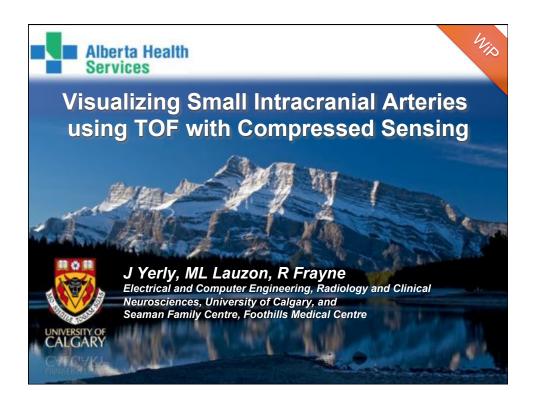


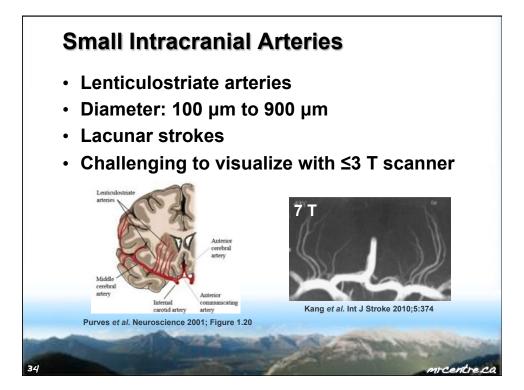


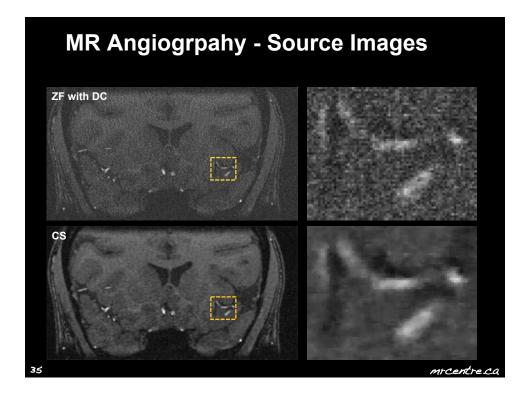


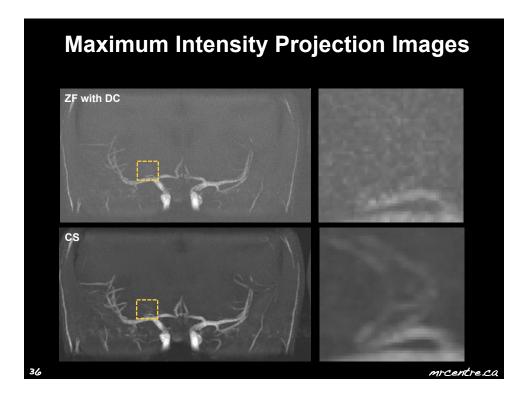












Summary

- Lots of work left to do...
- Preliminary *in vitro* and *in vivo* studies look promising
- CS <u>may</u> be able to reconstruct accurate images if sparsity condition is met
- Need to
 - · better understand errors in images, and
 - speed up reconstruction







