Goals:
• Develop physical brain perfusion phantom and digital simulator

Significance:
• Allows evaluation of perfusion imaging with new, portable CBCT scanner.
• Validation of perfusion imaging techniques in detection of ischemic stroke.

Results:
• 10-fold speedup in forward projection implementation
• Fabricated physical phantom is ready for CT image testing
Figure 3. Simulator results from a 2 second scan

Figure 4. Simulator results from a 10 second scan