



Cloud Computing in Radiation Therapy

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Disclosure Statement

- Varian Medical Systems Speaker Agreement
- Varian Medical Systems Research Agreement
- Varian Medical Systems License Agreement
- Patent Filing on a System and Method for Developing Predictive Dose-Volume Relationships for a Radiotherapy Treatment



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Why cloud computing in RT?

- Vendors moving applications to the "cloud" does not necessarily represent a significant change
- Firing up a treatment planning systems on your phone could be fun, but the true killer app of cloud computing may lie in its potential for multi-institutional aggregate studies
- Several challenges are posed by moving clinical operations to cloud-based enterprises, most of which are yet to be comprehensively addressed



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Topics for today

- Cloud computing in medical imaging (Panagiotis Papisimitroulas for George Kagadis)
- Cloud computing in radiotherapy research (Lei Xing)
- Clinical applications for cloud computing (Todd McNutt)

