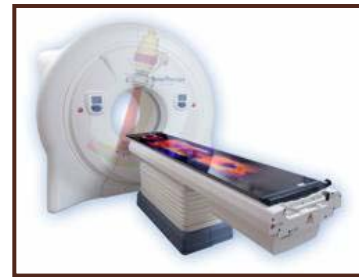


Clinical Trials in Hawaii

**Art Ushijima, President & CEO,
The Queen's Health Systems**



THE QUEEN'S HEALTH SYSTEMS



THE QUEEN'S MEDICAL CENTER

Driving Innovation

- **Process Improvement**
 - e.g., Clinical Protocols
- **Program Development**
 - e.g., Minimally Invasive Surgery
- **Research and Development**
 - Intellectual property to commercialization
 - New procedures, tests, and treatments, e.g., clinical trials



Clinical Trials at Queen's

➤ Evaluative Research

- 134 Trials
- Drugs, devices, procedures
- Humanitarian use devices

➤ Outcomes Research

- 181 Trials
- Epidemiology studies
- Questionnaire/survey studies
- Record reviews
- Registries, databases

➤ Psycho-Social Research

- 9 Trials



Value of Clinical Trials

- Opportunity for Our Patients
 - Novel therapies
- Feeds an Innovation Framework
 - Organizational cultural change
- Commercialization Opportunity
 - Cancer – New Drugs – Improvements in patient care
 - Medical device improvements & new applications

Clinical Trials are a Tool to Drive Innovation



Queen's Center for Biomedical Research

- Reinhold Penner, MD, PhD, Director
- Novel indications for known agents
 - Clofazamine – originally used for Hansen's disease
 - Found to have novel indications for autoimmune diseases
 - Psoriasis
 - Rheumatoid arthritis
 - Multiple sclerosis
 - Type I diabetes
 - Crohn's disease



JABSOM/Queen's 3T MRI Research Center

- Linda Chang, MD, Director
- Novel solutions for known problems
 - Real-time MR motion compensation
 - Reduce repeat MRIs due to patient movement
 - Potential cost savings of \$3.4B



Hamamatsu/Queen's PET Imaging Center

- Marc Coel, MD, Medical Director
- New choline tracer developed
 - Currently in FDA approval process
 - Normal FDG PET cannot detect prostate cancer
 - Prostate cancer benefits: Discovered cancer in biopsy of negative; staging of prostate cancer; detect recurrence, predict response to chemotherapy
 - Other potential applications
 - Hepatoma (liver cancer)
 - Breast
 - Brain tumors

Lessons Learned

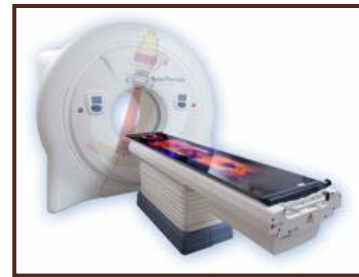
- Established and funded investigators
- Adequate, effective support infrastructure and resources
- Collaboration and strategic partnerships
- “Path to market” expertise



Clinical Trials in Hawaii

Mahalo

Questions?



THE QUEEN'S HEALTH SYSTEMS



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