

Public-Private Innovation: on-site O-15 cyclotron

The Capital Region of Denmark



Key value criteria used Value impact on stakeholders

Outcome focus

- Stabilizing the supply chain
- Same or better clinical outcome at lower cost

Cost of care focus

- Lower cost through the patient care pathway
- Workflow efficiency
- Staff time/consultation

Benefits for key stakeholders

- Staff availability
- Supply chain resilience
- Upgraded staff skill-set

Broader impact on society

- New product category
- Stable supply chain reduces cancellation of examinations
- New technology developed through shared funding and shared risks

Value created for the hospital

Quantitative impact (clinical and economic)

- Reduced costs (+30 %) by in-sourced production of PET/CT tracer compared to former technology (Rb-82)
- Less waste caused by radioactive decay of the tracer by replacing the sourcing set-up with on-site, on-demand production

Qualitative impact

- Stabilizing the supply chain of mission critical items
- More efficient workflow given new set-up that makes the tracer available directly in the PET/CT scanner room
- 1st hospital to take the product into clinical operation
- R&D strategic partnership for future development

Value created for the vendor

Quantitative impact (clinical and economic)

- New innovative market offering that has higher product/market fit as a result of the co-creation process
- Stronger value proposition for future commercialization

Qualitative impact

- Generation of new knowledge from R&D collaboration
- Decreased development risk of a new product due to co-financing and co-development with a clinic
- Strong global reference site for both scanners and cyclotron

Source: Region Hovedstaden Procurement Development & Strategic Partnerships (Denmark)

Procedure/product focus: On-site production of radioactive O-15 PET/CT tracer

Population segment: Cardiac

Care pathway: Diagnostics

Tender procedure: PPD § 80

Clinical site: Bispebjerg-Frederiksberg Hospital

Private partner: GE Healthcare

