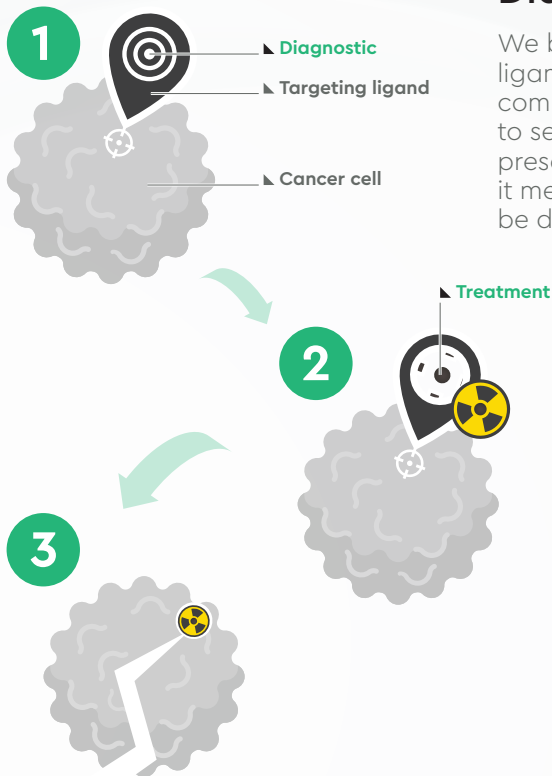


What is theranostics?

For healthcare practitioners only



Effect

The radiation is intended to damage and kill the cancer cells. Most of the therapeutic agent travels to the tumour locations. What does not reach the target is excreted from the body quickly, but a small amount of radiation will travel to non-cancerous tissues.

Diagnose & target

We begin by using a targeting ligand/diagnostic radio-isotope combination to perform a PET/CT scan, to see if the right target receptors are present on the cancer cells. If present, it means a therapeutic agent can also be delivered directly to these targets.

Treatment

Using the targeting ligand/therapeutic radio-isotope combination, radiation is carried precisely to the target receptor.

Precise Targeted Personalised

Theranostics is not suitable for all patients, but may be an option in metastatic disease unresponsive to or unsuitable for conventional therapies. Most evidence to date is in metastatic castrate resistant prostate cancer and advanced neuroendocrine tumours (NETs).

- A Phase 2 study (n=30) of ¹⁷⁷Lu-PSMA-617 showed 'high response rates, low toxicity effects, and a reduction in pain in men with metastatic castration-resistant prostate cancer who have progressed after conventional treatments'¹.
- In Phase 3 study, NETTER-1*, ¹⁷⁷Lu-Dotatate resulted in markedly longer progression-free survival than high-dose octreotide LAR and was associated with limited acute toxic effects in a population of patients who had progressive neuroendocrine tumours that originated in the midgut².

Available services

¹⁷⁷ Lutetium PSMA - for Metastatic or Treatment Resistant Prostate Cancer

¹⁷⁷ Lutetium Octreotate - for somatostatin receptor - positive tumours
(available from Autumn 2019)

Easy access

Cancer treatments at GenesisCare may be covered by insurance. We also offer self-pay options for Theranostics.

How to refer a patient

Please send a referral/clinic letter to windsor.enquiries@genesiscare.com

For more information

Contact us directly

Tel: 01753 418 444

Email: theranosticsUK@genesiscare.co.uk

Website: genesiscare.com

*NETTER-1 was a multicenter, international, randomised phase III study investigating the effects of ¹⁷⁷Lu-Dotatate on patients with advanced, progressive midgut NETs. Adult patients (≥ 18 years) were eligible for the study if they had pathologically confirmed low or intermediate grade midgut NETs with baseline radiographic progression and evidence of somatostatin receptor expression on all target lesions using ¹¹¹In-pentetreotide scan (OctreoScan, Mallinckrodt, St. Louis)

1. Hofman, et al. *Lancet Oncol*; 2018; 19: 825-33
2. Strosberg, et al. *N Engl J Med*; 2017; 376: 125-135

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