

Assessing the Cost and Value of Radiotherapy: Globally, Regionally and in Member States.

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Ghent University Hospital & Ghent University





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health outcomes

that matter to *patients*

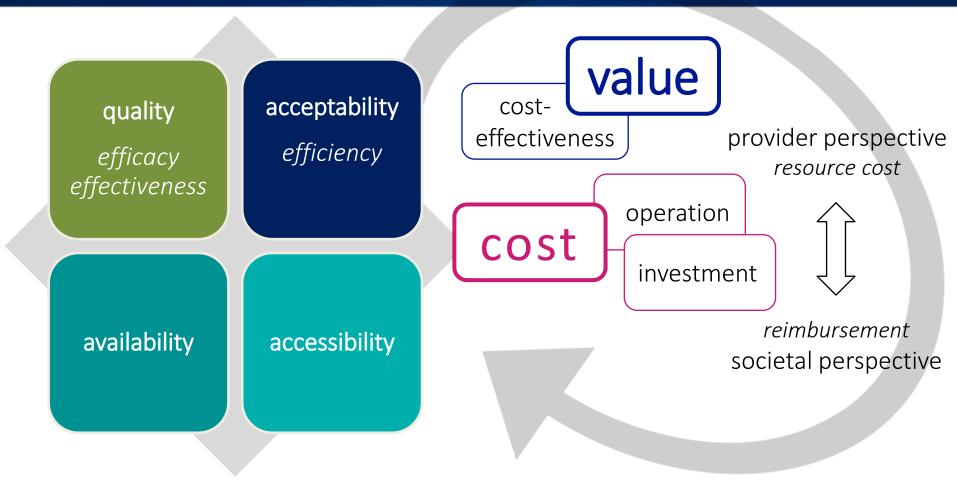
value =

costs

of delivering these outcomes

"The ríght to the híghest attaínable standard of health íncludes avaílabílíty, accessíbílíty, acceptabílíty & qualíty."

Porter M. N Engl J Med 2010 UN Committee on Economic, Social, and Cultural Right. General comment 14, 2000



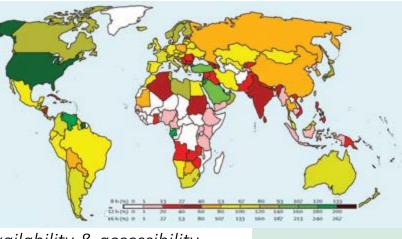
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cost

Time-Driven Activity-Based Costing



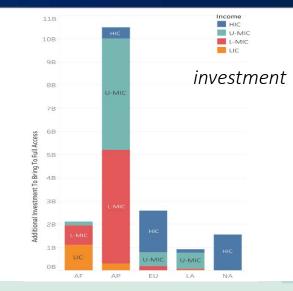
provider resource costs: globally and regionally



availability & accessibility

International Atomic Energy Agency





00 01 107 120 120 100 107 120 120 100 107 121 340 340 0peration	High- income countries	Upper- middle- income countries	Lower- middle- income countries	Low- income countries	
Operating cost per fraction	235	86	65	60	
Upfront cost per fraction investment	803	357	349	352	
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Zubizaretta et al, Clin Oncol 2016

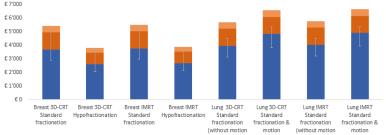
cost

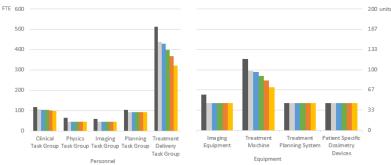
provider resource costs: at national and department level



International Atomic Energy Agency

fractionation & complexity





ESTRO HERO

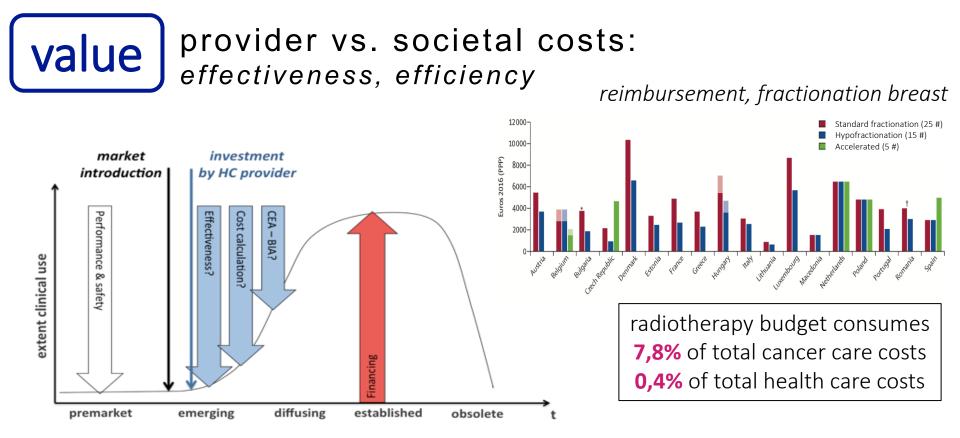
management)

management

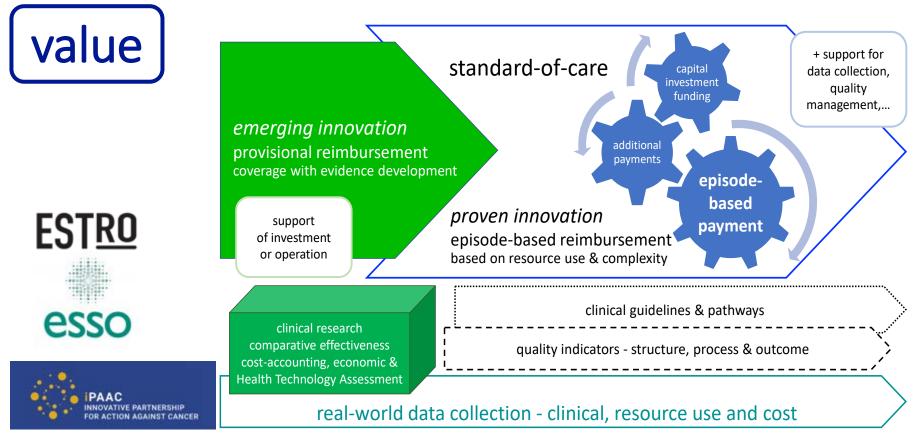
management)

management

Van Dyk et al, Radiother Oncol 2017 Defourny et al, Radiother Oncol 2019

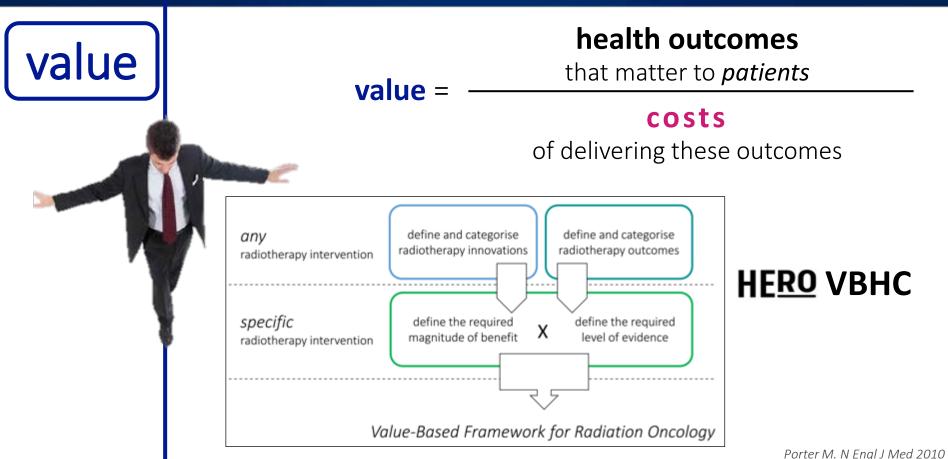


Lievens et al, Acta Oncol 2015 Lievens et al, Lancet Oncol 2020



Borras et al, R&O and EJSO 2021

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Lievens et al, Radiother Oncol 2021

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thank you for your attention!

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