



Welcome

Webinar:

Justification of practices





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Justification of practices

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Overview

- Introduction to HTA and the Ionising Radiation Team
- Ionising radiation activities at HIQA
- Justification of medical exposure
- Generic justification in Ireland
- HIQA's approach to generic justification



What is health technology assessment W Health Information and Quality (HTA)?

Health technology assessment (HTA):

a multidisciplinary process that summarises information about the **medical**, **social**, **economic and ethical** issues related to the use of a health technology in a **systematic**, **transparent**, **unbiased**, **robust** manner.

Its aim is to **inform** the formulation of **safe**, **effective**, **health** policies that are **patient focused** and seek to achieve **best value**.

(EUnetHTA)

Examples of HIQA HTA outputs



HIQA PROVIDES ADVICE ON ADDING CONDITION TO HEEL PRICK TEST

HIQA has provided advice on the addition of severe combined immunodeficiency (SCID) to the National Newborn Bloodspot Screening Programme (NNBSP)



Newborn bloodspot screening, known as 'the heel prick test', screens for nine conditions and happens within the first 72 to 120 hours of life.

REVIEW OF INTERNATIONAL GUIDANCE ON LONG COVID

HIQA REVIEWED 24 INTERNATIONAL CLINICAL GUIDELINES AND 2 MODELS OF CARE FOR THE DIAGNOSIS AND MANAGEMENT OF LONG COVID.

THE WORLD HEALTH ORGANIZATION DEFINES...

Long COVID as continuing or new symptoms three months after the initial COVID-19 infection, lasting for at least two months with no other explanation.



HIQA RECOMMENDS A NATIONAL METABOLIC SURGERY PROGRAMME

What is metabolic surgery?

Metabolic surgery refers to the use of bariatric surgery procedures to treat type 2 diabetes.

Who is it for? It is for patients

with comorbid type 2 diabetes and obesity who meet specific criteria. Metabolic surgery is a **safe** procedure.

It is very **effective** in improving blood sugar control **up to 10 years post**-

surgery.

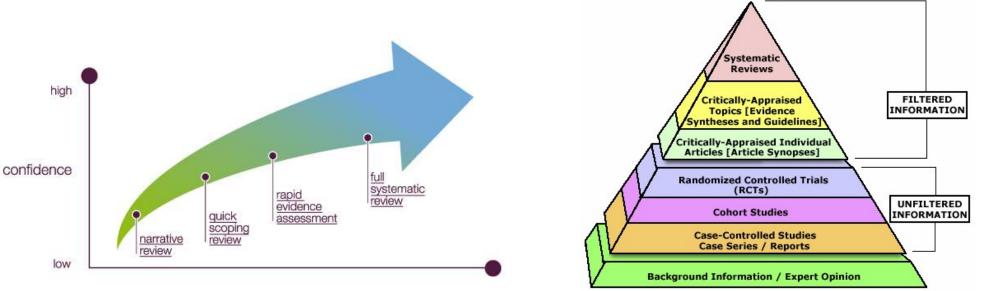
The surgery is highly **cost-effective** and potentially cost-saving in the long-term.

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Evidence Synthesis

• Evidence Synthesis is a way of combining information from multiple studies that have investigated the same thing, to come to an overall understanding of what they found. Evidence synthesis helps determine how effective a certain treatment or drug is, or how people have experienced a particular health condition or treatment.





Ionising Radiation team in HTA

Dr. Kirsty O'Brien, Health Services Researcher Mr. Andrew Dullea, Health Services Researcher Ms. Maeve McGarry, Health Services Researcher Dr. Lydia O'Sullivan, Senior HTA Analyst

Ms. Marie Carrigan, Librarian/Information Scientist

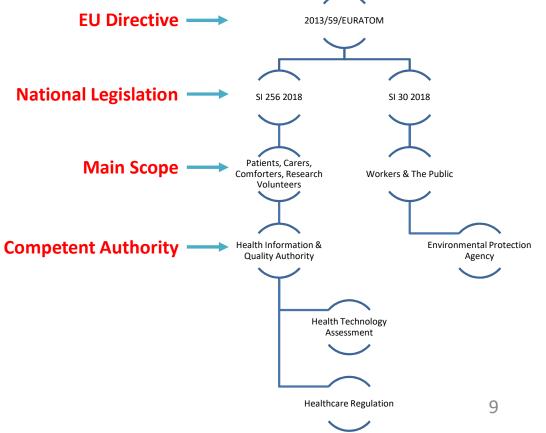
Dr. Patricia Harrington, Deputy Director of Health Technology Assessment Dr. Susan Spillane, Deputy Director of Health Technology Assessment Dr Máirín Ryan, Director of HTA & Deputy CEO

Ionising radiation activities at HIQA

Maeve McGarry Health Services Researcher

Framework

- Transposition of EU BSS (basic safety standards) for the protection against the dangers arising from exposure to ionising radiation in 2019
- EPA: regulation of workers & the public
- HIQA: competent authority for patient safety
 - Healthcare regulation
 - Heath technology assessment



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Competent Authority

Regulation

- Healthcare Regulation directorate
- Functions include:
 - Monitoring and **inspection** of services
 - Receipt of **notifications** of accidental and unintended exposures
 - Establishing national diagnostic reference levels (DRLs)
 - Development of **guidance** including:
 - Guidance on Dose Constraints in Medical Exposures to Ionising Radiation
 - Guidance on Criteria for the Acceptability of Medical Radiological Equipment used in Diagnostic Radiology, Nuclear Medicine and Radiotherapy

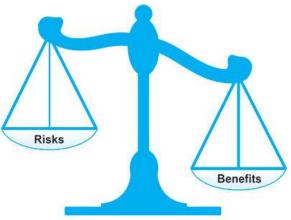
Health Technology Assessment (HTA)

- Regulation 8(6)
 - Development of guidelines on the specific justification of medical radiological practices on an asymptomatic individual for the early detection of disease, but not as part of a health screening programme
- Regulation 8(3)
 - Specific justification of medical radiological procedures as part of screening programmes
- Regulation 7
 - Justification of practices (generic justification)

Justification of medical exposure

Justification

- The principle of justification: any decision that alters the existing radiation exposure situation should do more good than harm
- Considers both the benefits to an individual person and to society, and the harms to the exposed individual
- Considers the effectiveness, advantages and risks associated with the available alternative practices which expose the individual to less or no ionising radiation
- ICRP 103 & 105 outlines 3 levels of justification



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Levels of Justification

Level Consideration

- 1 Considers the use of radiation in medicine **in general**. The proper use of radiation in medicine is accepted as doing more good than harm to society, since, in general, the net benefit outweighs the harms. General level of justification is now taken for granted.
- 2 Undertaken at a population level for a type of practice.
 - Level 2 justification considers whether, in general, for a **specified practice** with a specified objective, the benefits outweigh the risks. That is, that the practice will usually improve the diagnosis or treatment, or will provide necessary information about the exposed individuals.
 - For example, chest X-rays for patients showing relevant symptoms, or a group of individuals at risk for a condition that can be detected and treated).
- **3** Considers the diagnostic or therapeutic outcome at an **individual patient level**.

This is assigned to the healthcare professionals involved in the patient's care. All individual medical exposures should be justified in advance, taking into account the specific objectives of the exposure and the characteristics of the individual involved. That is, the particular application should be judged to do more good than harm to the individual patient.

Generic justification in Ireland

Responsibilities of HIQA

- Under Regulation 7(1) HIQA must justify new types of practices involving medical exposure in advance of these being generally adopted
- Under Regulation 7(3) & 7(4) HIQA shall consider a review of any existing class or type of practice should:
 - a. new and important evidence about their efficacy or potential consequences be obtained
 - b. New and important information about other techniques and technologies be obtained
- Under Regulation 7(6) HIQA shall take into account medical and where relevant associated occupational and public exposures





STATUTORY INSTRUMENTS.

S.I. No. 256 of 2018

EUROPEAN UNION (BASIC SAFETY STANDARDS FOR PROTECTION AGAINST DANGERS ARISING FROM MEDICAL EXPOSURE TO IONISING RADIATION) REGULATIONS 2018

Responsibilities of persons

- Under Regulation 7(2) a person shall not carry out a new type of practice unless such new type of practice has been justified in advance by HIQA
- Under Regulation 7(5) a person shall not carry out a class or type of practice which has been reviewed by HIQA and found not to be justified
- Under Regulation 8(9) where a type of practice involving medical exposure is not justified in general, an undertaking shall ensure that a specific individual exposure of this type is justified, where appropriate, in special circumstances, to be evaluated by the practitioner on a case-by-case basis and documented



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HIQA's approach to generic justification

HIQA's approach

- HIQA's approach outlined in published methods document (see www.hiqa.ie)
- Now open for applications
- Justification of practice in progress for:
 - ¹⁷⁷Lu oxodotreotide for the treatment of metastatic and/or inoperable gastroenteropancreatic neuroendocrine tumours (GEP-NETs)



Methods for Generic Justification of New Practices in Ionising Radiation

2 February 2023

Safer Better Care



What is a new practice?

- HIQA defines a 'new' practice as a class or type of radiological procedure which was not used prior to the introduction of the Regulations, that is, before 8 January 2019
- The term 'class or type of practice' refers broadly to both the technology (that is, the radiopharmaceutical, device or technique) and the objective to be achieved by using that technology, that is, the clinical indication
- Varying approaches have been adopted across the EU



What is a new practice

In the Irish context, a new class or type of practice will **typically** mean:

- New technologies
 - (that is, sealed or unsealed sources, a radiopharmaceutical, device or technique)
- Use of an existing technology for a new indication
 - (that is, a new clinical condition(s) or anatomical region(s) under investigation or treatment)
- New combinations of existing technologies for a specific indication
 - (for example, mammography and tomosynthesis for breast cancer screening)
- New intended populations
 - (for example, change from an adult to a paediatric population, or from a symptomatic to an asymptomatic population)
- In radiation oncology: a new indication, site or population for hypo- or hyper fractionation



Dose optimisation

- Regulatory requirements under Regulation 9
- In general, dose optimisation is a separate concept and does not represent a new class or type of practice e.g.
 - In diagnostic imaging, changes to planning parameters
 - In radiation oncology, changes to beam orientation using the same RT technique

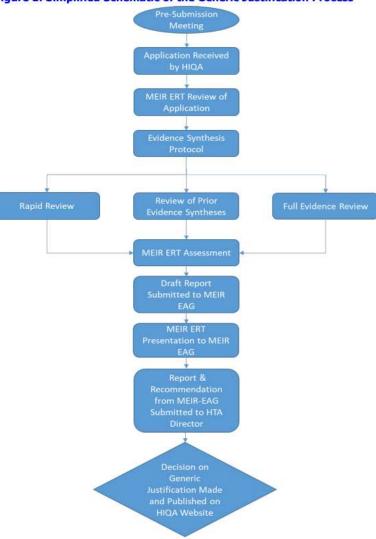


Figure 1: Simplified Schematic of the Generic Justification Process

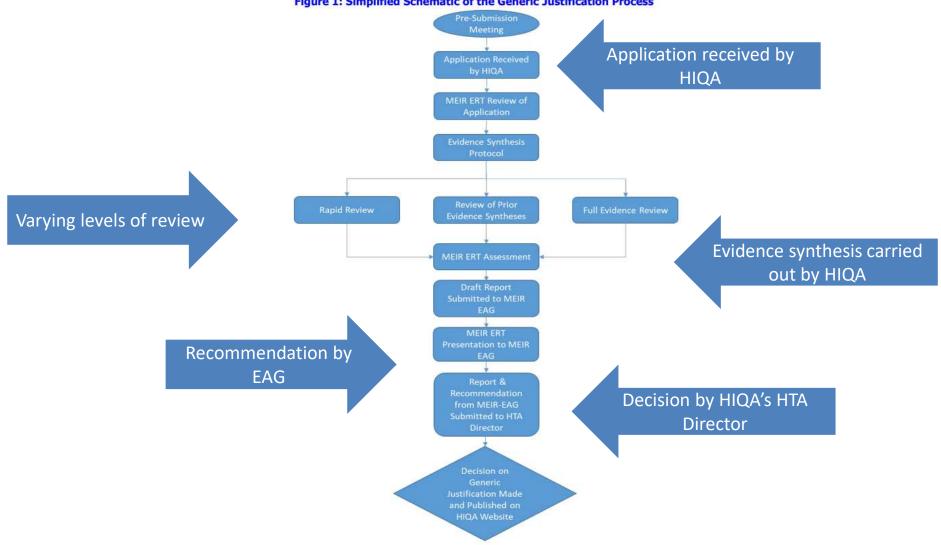


Figure 1: Simplified Schematic of the Generic Justification Process

Evidence Synthesis Matrix - Draft



This matrix is provided for guidance purposes and should be read in the context of the typical definition of a new type or class of practice, as outlined in this document. Please consult HIQA if the practice does not fit the description of any of the categories described.

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Expert advisory group

- EAG membership & terms of reference on HIQA website
- Includes:
 - patient advocacy group and representatives
 - Regulatory bodies
 - Representatives from professional bodies
 - Representatives from national clinical programmes

2023 meetings:

- Thursday, 23rd February at 2pm
- Thursday, 1st June at 2pm
- Thursday, 19th October at 2pm



Expert advisory group: current membership



Name	Organisation	Name	Organisation
Prof Mary Coffey, Chairperson	Independent Chairperson	Dr Emer Lahiff	Health Products Regulatory Authority,
Dr Jennie Cooke	Irish Association of Physicists in Medicine, Principal Physicist (Diagnostic Radiology), Children's Health Ireland		Technology Group Lead, Assessment & Surveillance, Medical Devices Department
Dr Agnella Craig	HIQA Healthcare Directorate, Regional Manager, Ionising Radiation Regulation Team, HIQA	Mr Aodh MacGairbhith	Irish Association of Physicists in Medicine, Medical Physicist (Radiation Oncology)
Prof Clare Faul	HSE National Cancer Control Programme, Consultant Radiation Oncologist	Ms Michele Monahan	Irish Institute of Radiography and Radiation Therapists (Diagnostic Radiography),
Dr Eva Godske Friberg	International Expert,	Ms Collette O'Connor	Radiography Services Manager
	Senior Medical Application Advisor, Department of Radiation and Environmental Safety Section for Medical Appliances, Norwegian Radiation and Nuclear Safety Authority		Environmental Protection Agency, Senior Inspector
Mr Anthony Heaphy	Patients for Patient Safety Patient Advocate USE National Control Descented	Dr Maria O'Grady	Irish Dental Association, Dentist
Ms Patricia Heckman	HSE National Cancer Control Programme, Chief Pharmacist & NCCP lead on radionuclides licensed as medicines	Ms Edel O'Toole	Irish Institute of Radiography and Radiation Therapists (Radiation Therapy),
Ms Geraldine Jolley	SAGE Advocacy, Patient Advocate		Radiation Safety Officer/Radiation Protection Officer
Prof Ronan Killeen	HSE National Clinical Programme for Radiology and Faculty of Radiologists, Royal College of Surgeons in Ireland	Mr Niall Phelan	National Screening Service, HSE, Chief Physicist, BreastCheck
	Consultant Radiologist	Prof Susan Smith	Methodology Expert,
	Irish Nuclear Medicine Association		Professor of General Practice, Public Health and Primary Care
	Consultant Radiologist	To be confirmed	HSE National Heart Programme

Consultant Cardiologist

Guidelines for asymptomatic individuals: Regulation 8(6)



- Guidelines for MEIR exposures in asymptomatic individuals outside of screening programmes, e.g., Individual Health Assessments
- Scoping Review completed high level principles identified from the literature
- Planning for focus groups
- Draft guidelines stakeholder engagement

Key points

- HIQA as the competent authority must generically justify new types of practices (post-January 2019) before they are generally adopted
- HIQA can review existing practices if new or important evidence emerges
- Includes medical exposures in screening programmes

- Where a type of practice involving medical exposure is not justified in general, an undertaking shall ensure that a specific individual exposure of this type is justified, where appropriate, in special circumstances, to be evaluated by the practitioner on a case-by-case basis and documented
- In most cases, dose optimisation is a separate concept under the regulations and does not represent a new class or type of practice



Website

How to apply for gene	\oplus	
Medical Exposure to lo Advisory Group	\oplus	
Applications in progres	\oplus	
Read our reports and p	\oplus	
Information Events		\oplus
Generic Justification Application Form	Methods for Generic Justification	

Thank you

Contact information:

Email: radiationjustification@hiqa.ie

Phone: 01 828 6700

Website: Justification of practices | HIQA



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