

# GO Wales: GAE for OA in Wales

Dr Nimit Goyal, Consultant Interventional Radiologist

Dr Rebecca Wallace, Radiology Quality and Governance Manager

Mr Andrew Miller, Consultant T and O Surgeon

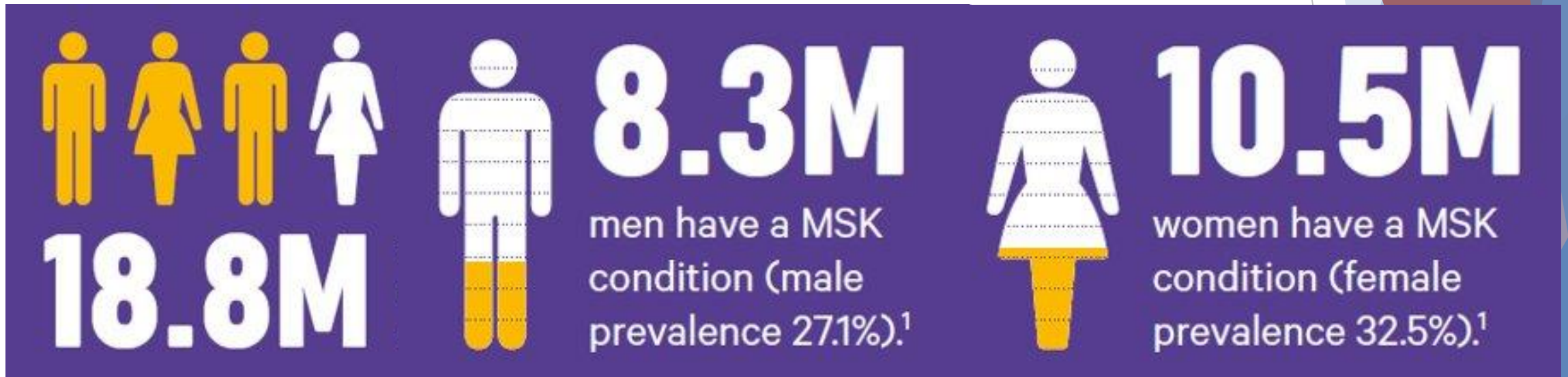
Dr C Chick, Dr C Williams. Radiology

Mr M Kemp. T and O

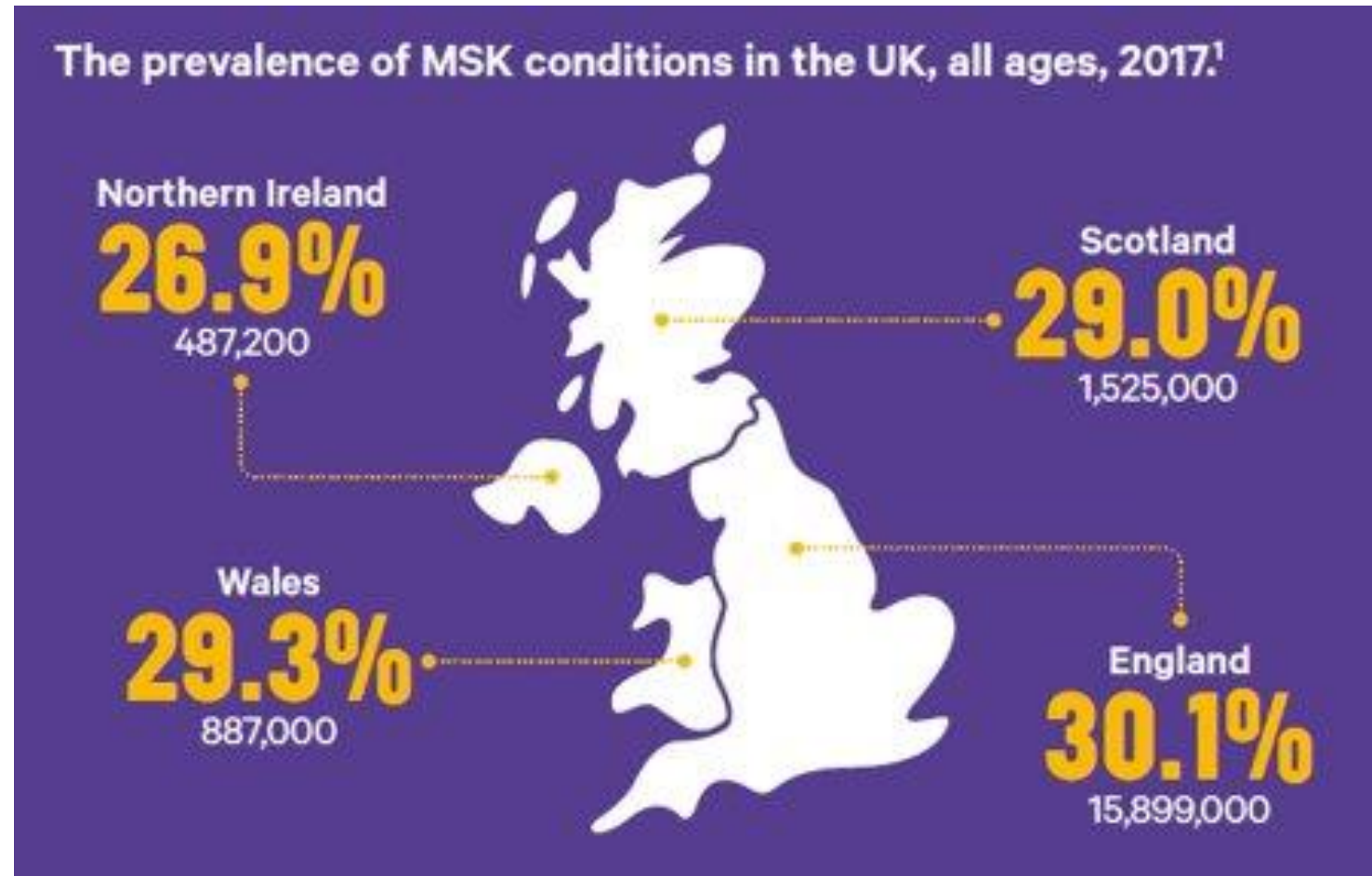
Mr H Griffiths, Mr M Knight-Davies. Physiotherapy

# The Problem- Prevalence of MSK Conditions

- ▶ MSK conditions are described as conditions affecting the bones, joints, muscles and spine



Source: The state of musculoskeletal health 2019. Versus Arthritis. Available from <https://www.versusarthritis.org/media/14594/state-of-musculoskeletal-health-2019.pdf>



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# The Impact

## TOP 3 REASONS FOR WORKING DAYS LOST IN 2017<sup>53</sup>



**28.2M**  
LOST TO  
**MSK**  
CONDITIONS



**15.0M**  
MENTAL HEALTH  
CONDITIONS



**22%**

of the total burden of ill health  
in the UK was accounted for by  
**MSK conditions.**<sup>1</sup>

**4 X**

Depression is four times more  
common in people with persistent  
pain

# Impact on Health & Care Services

- ▶ People with MSK conditions are frequent users of primary, secondary, community based and social services

**ONE IN FIVE**

people consult a GP about an MSK problem in England.<sup>61</sup>



**MUSCULOSKELETAL  
CONDITIONS**

account for the third largest area of NHS programme spending at £4.7 billion in 2013-14.<sup>74</sup>



**£195.3M**

Approximately **32.2 million** prescriptions (-4.0% since 2016) were dispensed for MSK and joint diseases in England in 2017, costing approximately **£195.3 million** (-5.1% since 2016).<sup>73</sup>





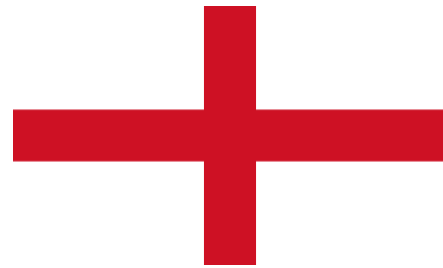
# Osteoarthritis



- ▶ Around 8.75 million people aged 45 years and over (33%) in the UK have sought treatment for osteoarthritis.<sup>1</sup>

1. Arthritis Research UK. Osteoarthritis in General Practice. 2013

# Osteoarthritis of the Knee



	England	Scotland	Wales
% of people over 45 with knee OA	18.2 %	16.6 %	17.2 %
In numbers	4.11 million	420,000	275,000
People with severe OA	1.4 million	104,000	71,000

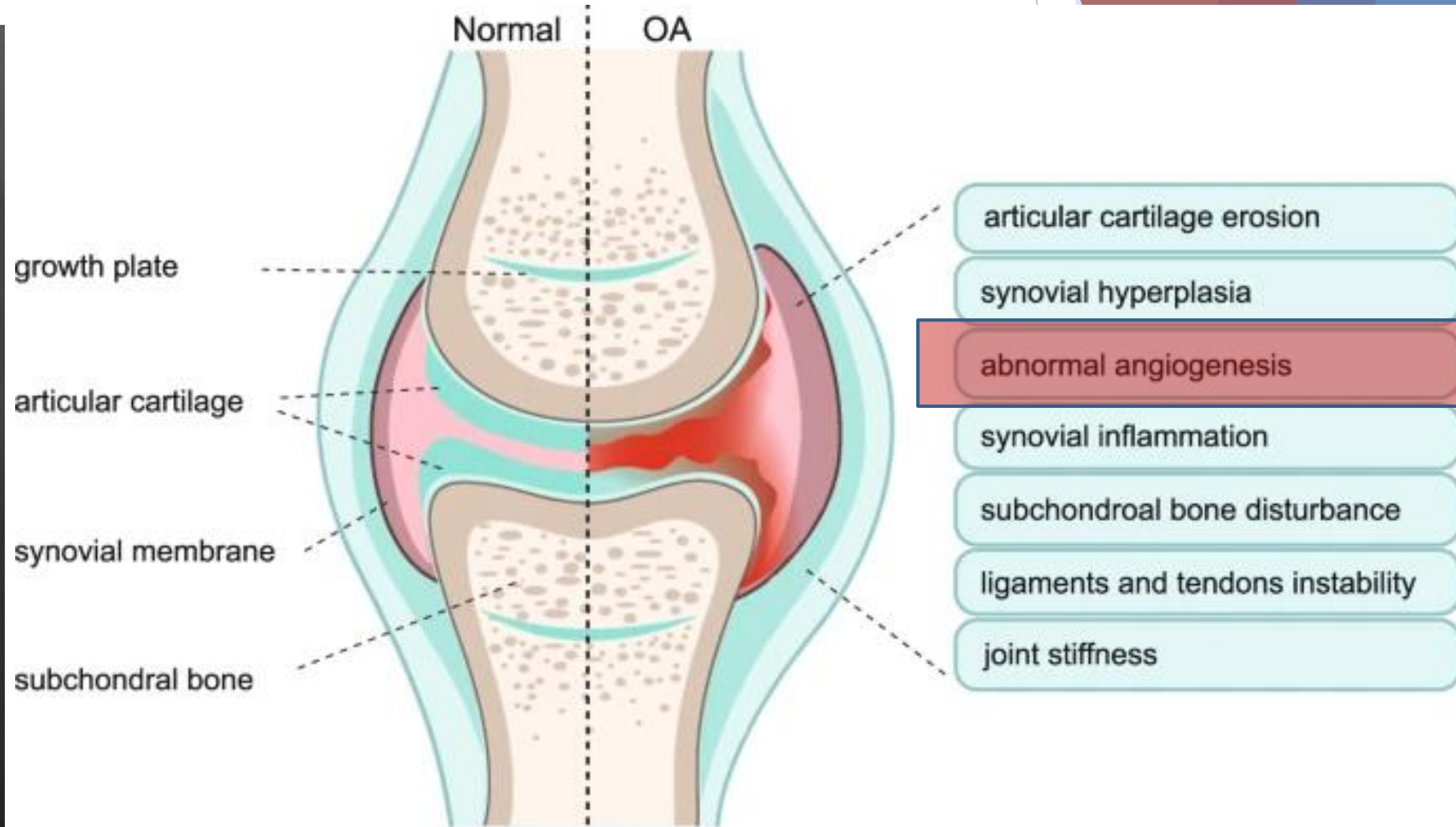
# Osteoarthritis of the knee

- ▶ OA is a condition in which the joints of the body become damaged and stop moving freely.
- ▶ It is a combination of the breakdown of the joint and body's attempted repair processes
- ▶ Knee is the most common site in the body for OA



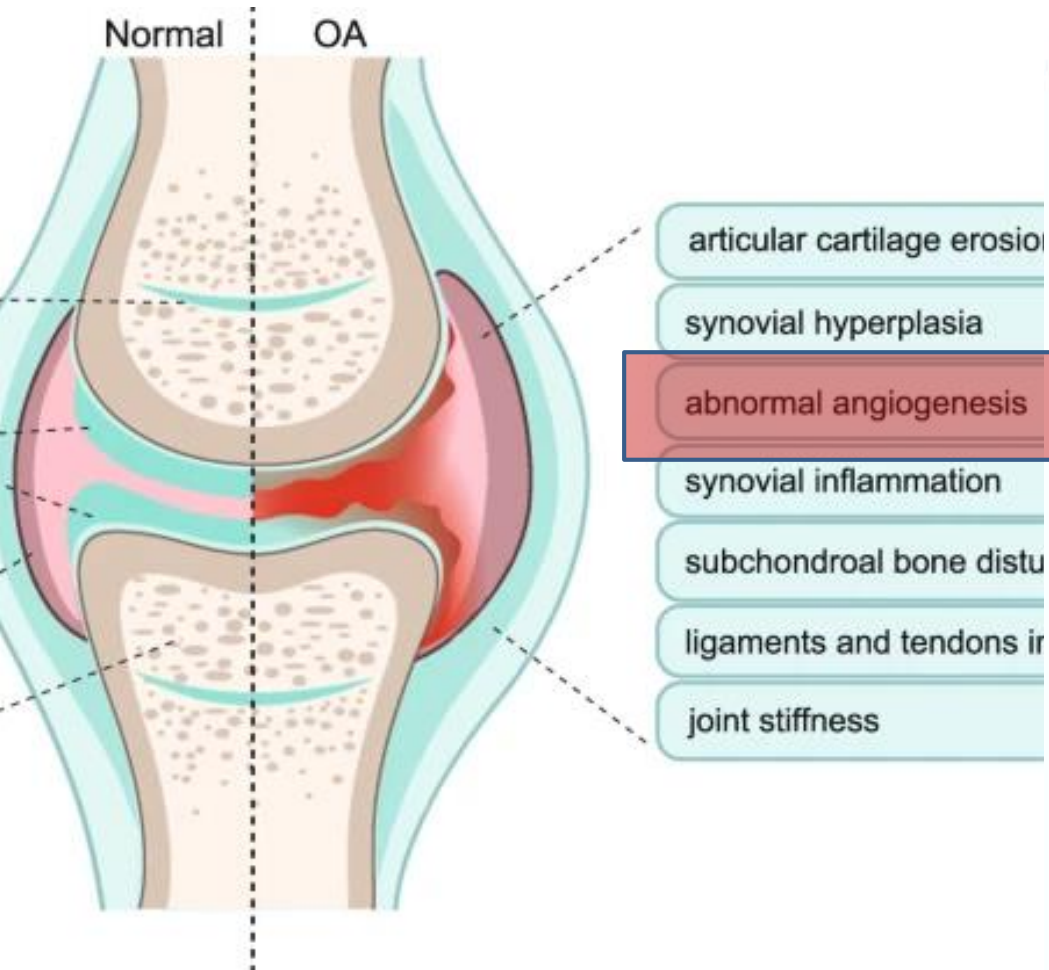
# Osteoarthritis of the knee



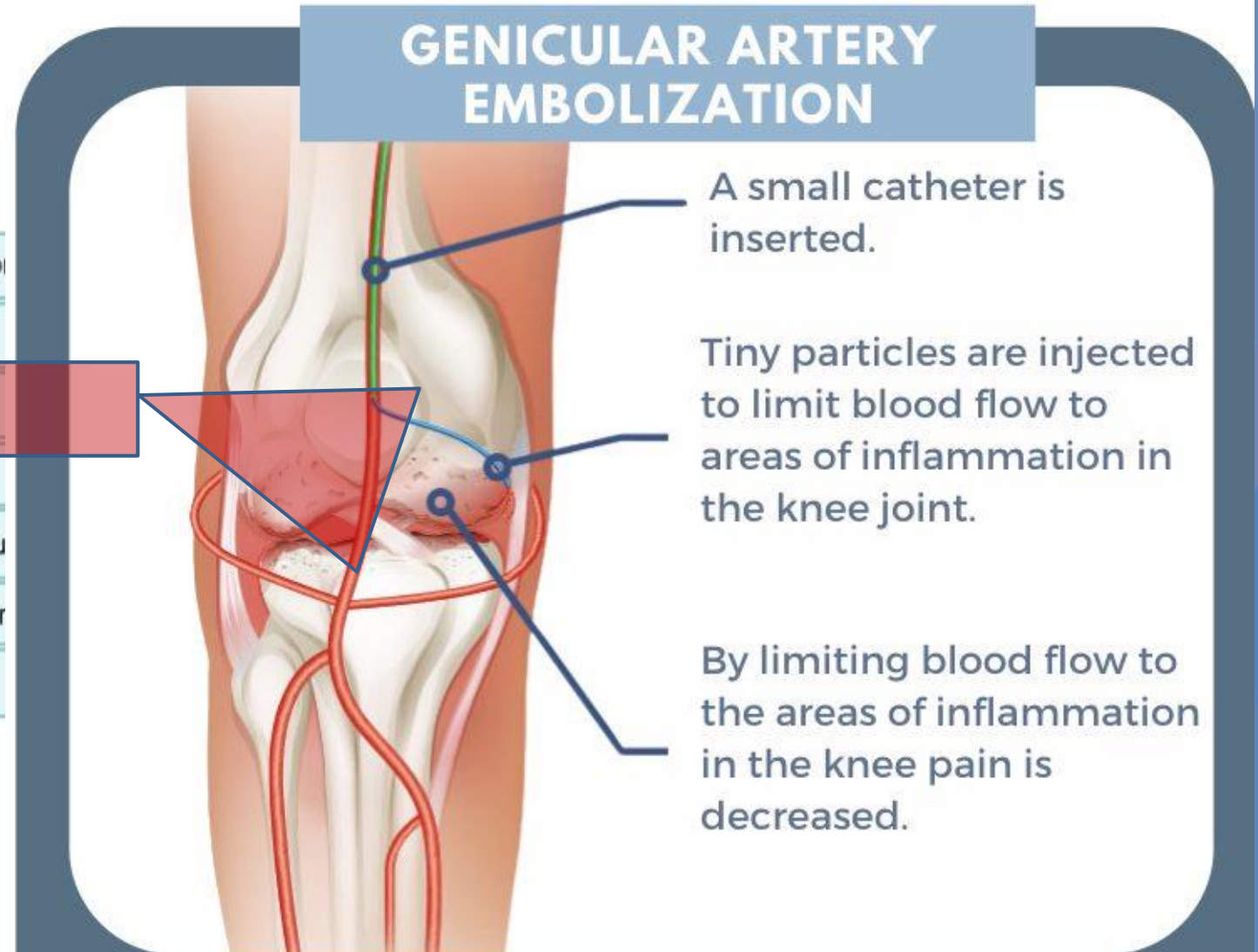




# The innovation- GAE



## GENICULAR ARTERY EMBOLIZATION



# GAE: NICE Guidelines

- ▶ Evidence on the safety of genicular artery embolisation for pain from knee osteoarthritis shows no major safety concerns in the short term
- ▶ Evidence on its efficacy and long-term safety is inadequate in quality and quantity
- ▶ Therefore, this procedure should only be used in the context of research.

# GAE: collaboration and research



- T and O
- Physiotherapy
- R and D
- Value Based Healthcare
- Innovation



Ariennir gan  
**Lywodraeth Cymru**  
Funded by  
**Welsh Government**

- May 22: Funding approved by the Bevan commission as part of the PCIP
- Funding to carry out 30-35 cases as part of a trial

- September 22: Radiation assurance approval
- November 22: IRAS approval
- 1 Dec 2022: First in Wales GAE case performed
- To date:
  - 46 patients seen in the GAE clinic
  - 18 recruited
  - 15 cases done

**CYMRU**  
**VERSUS**  
**ARTHRITIS**



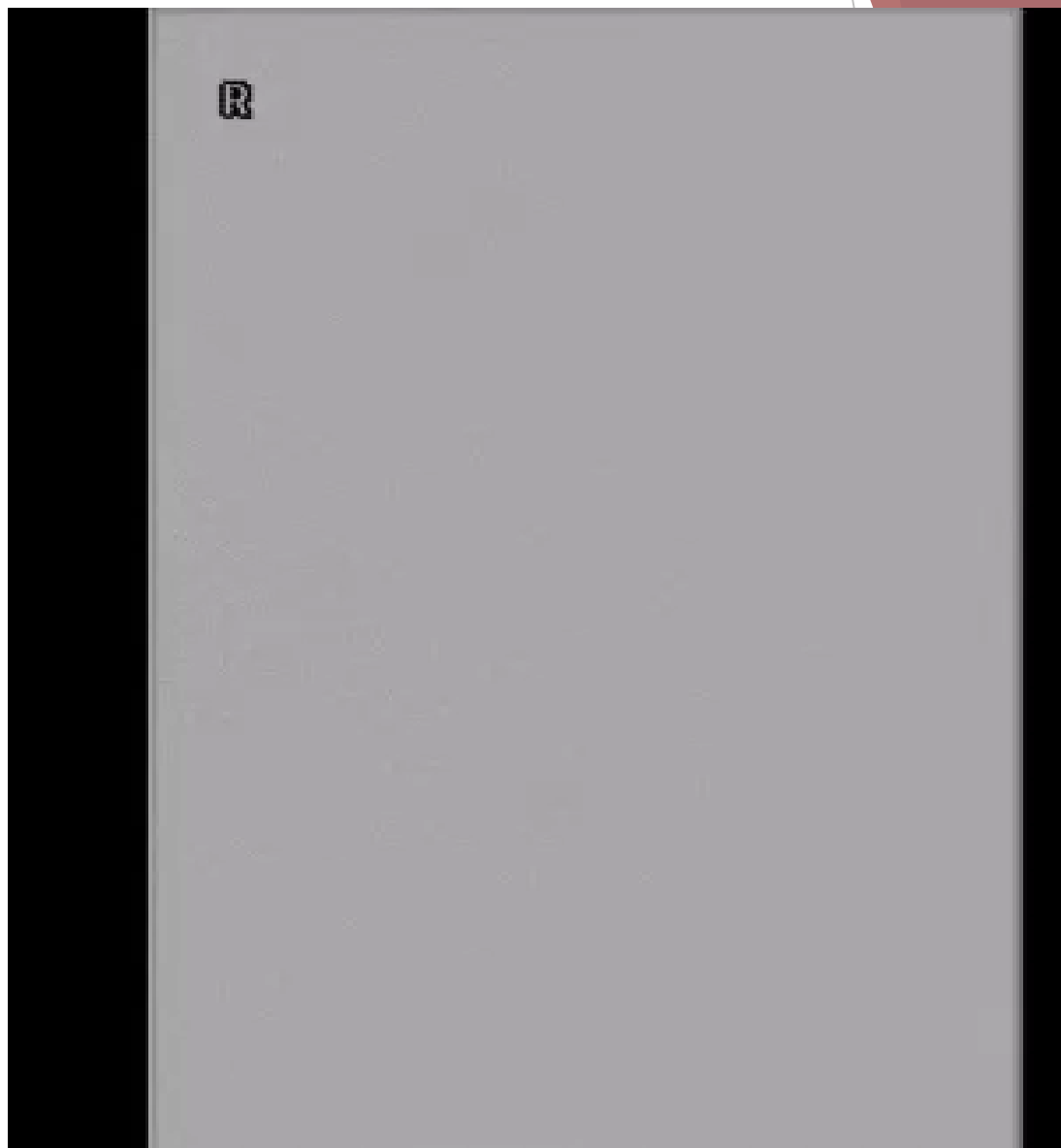
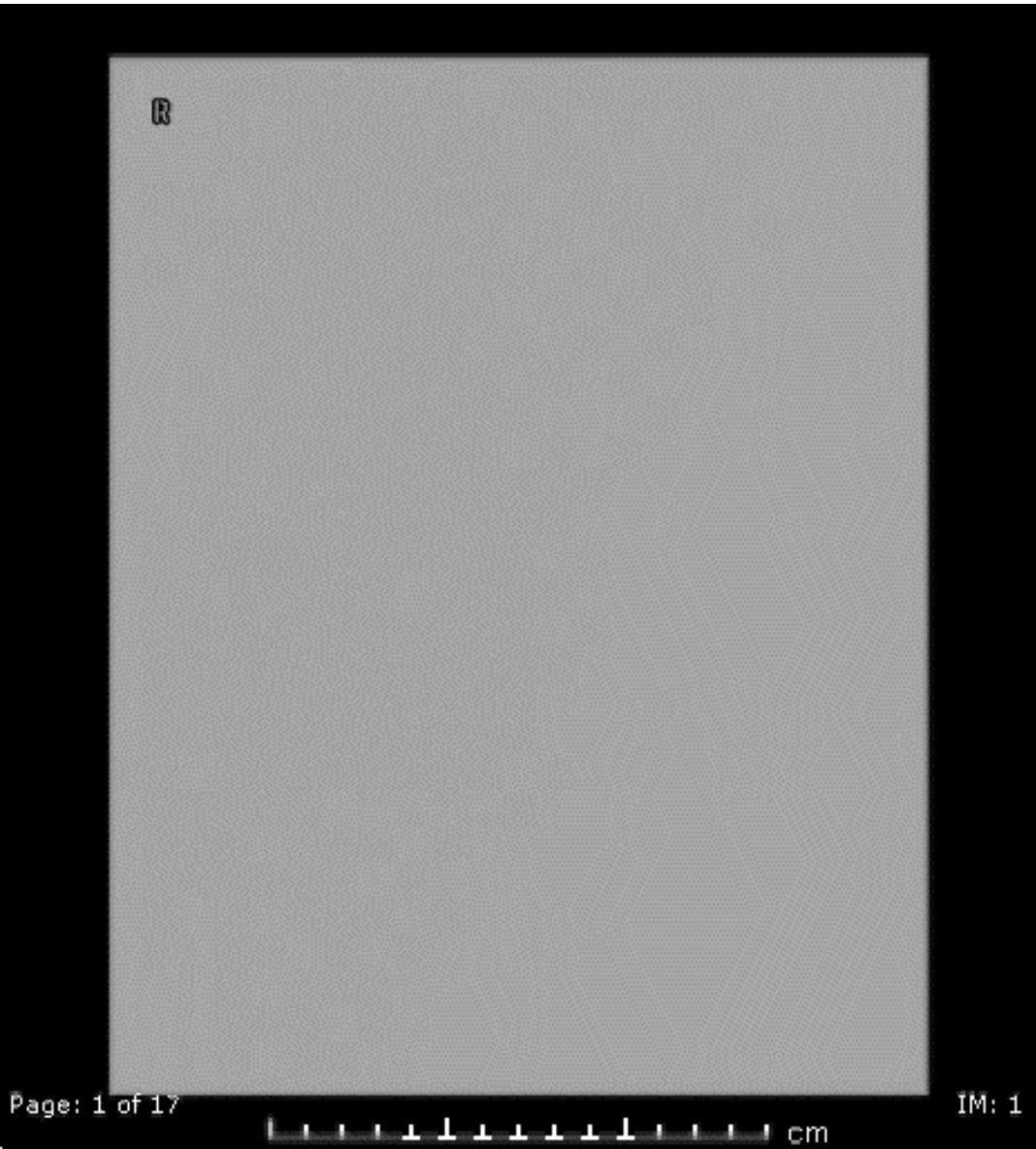
Ymchwil Iechyd  
a Gofal **Cymru**  
Health and Care  
Research **Wales**



# The innovation- GAE

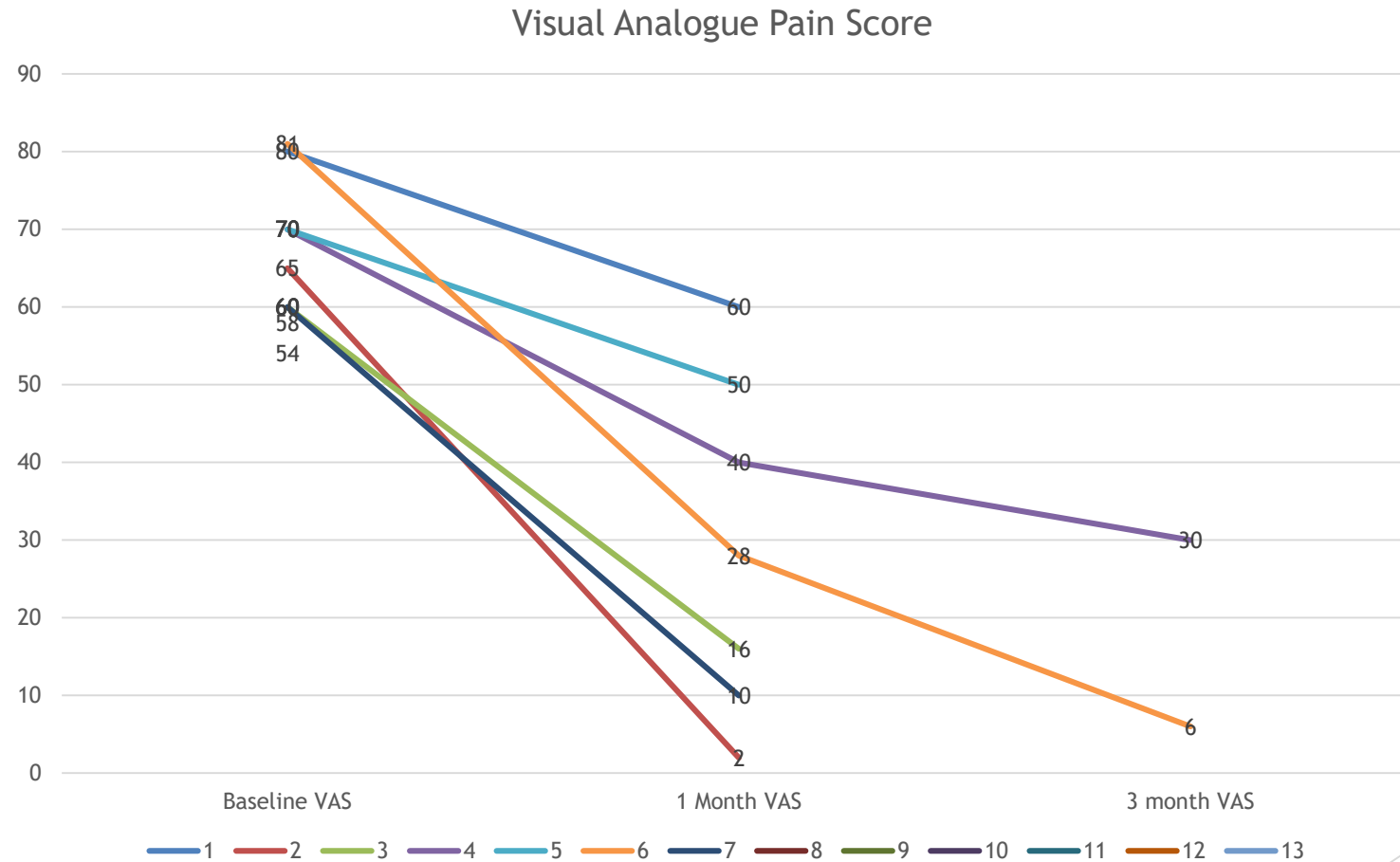


- ▶ 61 year old male
- ▶ 10+ year h/o knee pain
- ▶ Previously tried:
  - ▶ Pain killers
  - ▶ Corticosteroid injections



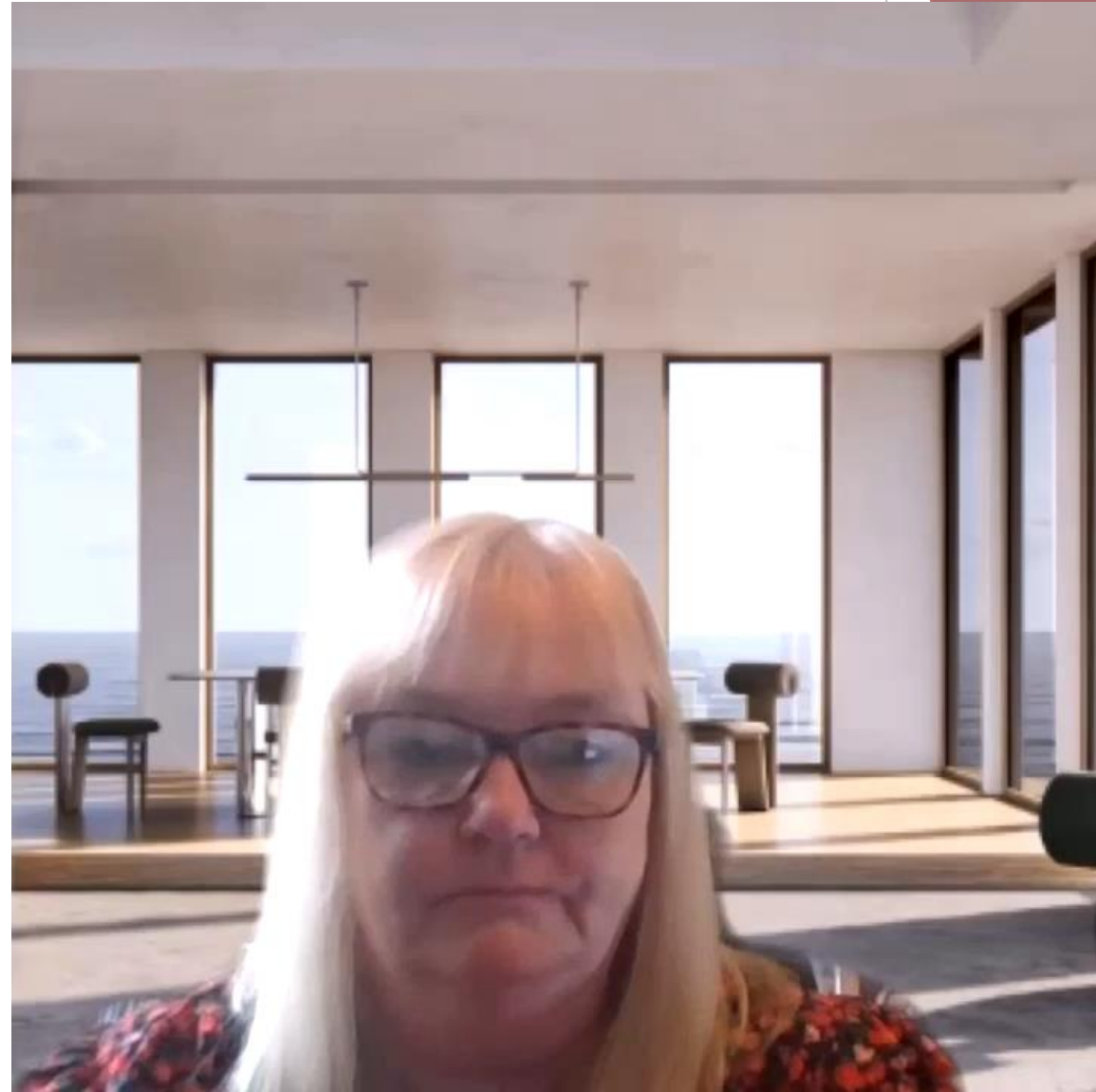


# Early results- April 2023



# Patient Experience

- ▶ Julia Thomas
- ▶ 53 year old
- ▶ 10 year + h/o OA
- ▶ Tried:
  - ▶ Analgesics
- ▶ Grade 3 OA on Xray



# Thank you

▶ Follow our progress on:

▶ The Bevan Commission Website

<https://www.bevancommission.org/projects/gae-a-novel-minimally-invasive-way-to-treat-knee-oa-pain/>

▶ The ISRCTN Registry

<https://www.isrctn.com/ISRCTN82978621>

▶ Social Media



@Gwent\_IR



@NimitGoyal111