

Optimising the Patient Journey

Dr Katy Clarke

Consultant Clinical Oncologist, The Leeds Teaching Hospitals NHS Trust

Ms Melissa Taylor

Physiotherapist (Prehabilitation and Surgery), University Hospitals Bristol and Weston NHS Foundation Trust

*Prescribing information is available at this meeting and can be accessed from the links at the end of this deck.
This is a promotional meeting funded and organised by AstraZeneca for UK HCPs only.*

Adverse events should be reported. Reporting forms and information can be found at <https://yellowcard.mhra.gov.uk/> or search for MHRA Yellow Card in the Google Play or Apple App Store.

Adverse events should also be reported to AstraZeneca by visiting <https://contactazmedical.astrazeneca.com> or by calling 0800 783 0033.



Disclosures



Dr Katy Clarke: I have received sponsorship for congress attendance by Merck Sharp & Dohme and Takeda and honoraria for my participation in the 2024 Think Again Lung Summit from AstraZeneca.

Ms Melissa Taylor: I have received honoraria for my participation in the 2024 Think Again Lung Summit from AstraZeneca.

IMFINZI™ ▼ (durvalumab) indications in NSCLC:



IMFINZI™ (durvalumab) as monotherapy is indicated for^{1,2}:

- The treatment of locally advanced, unresectable NSCLC in adults whose tumours express PD-L1 on $\geq 1\%$ of tumour cells and whose disease has not progressed following platinum-based chemoradiation therapy

NSCLC, non-small cell lung cancer; PD-L1, programmed cell death ligand-1; URTI, upper respiratory tract infection.

1. EMC. IMFINZI SmPC. Available at: <https://www.medicines.org.uk/emc/product/9495> (Accessed June 2024); 2. EMC Northern Ireland. IMFINZI SmPC. Available at: <https://www.emcmedicines.com/en-gb/northernireland/medicine?id=ebfb0ef2-3f0b-4d5d-8e7b-353a0176b147&type=smpc> (Accessed June 2024)

Optimising the Patient Journey

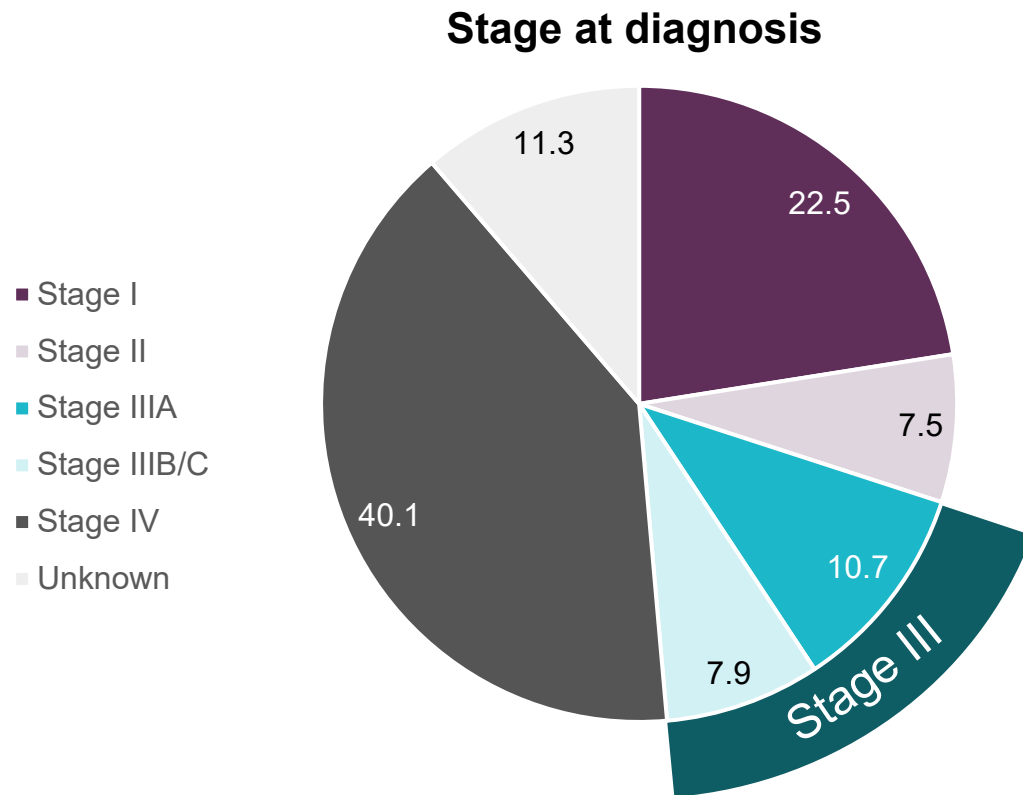
Managing adverse effects including prehabilitation

THINK
AGAIN

LUNG
SUMMIT

NSCLC stage at diagnosis

According to the 2024 NLCA report, 58.2% of lung cancer cases are pathologically NSCLC¹

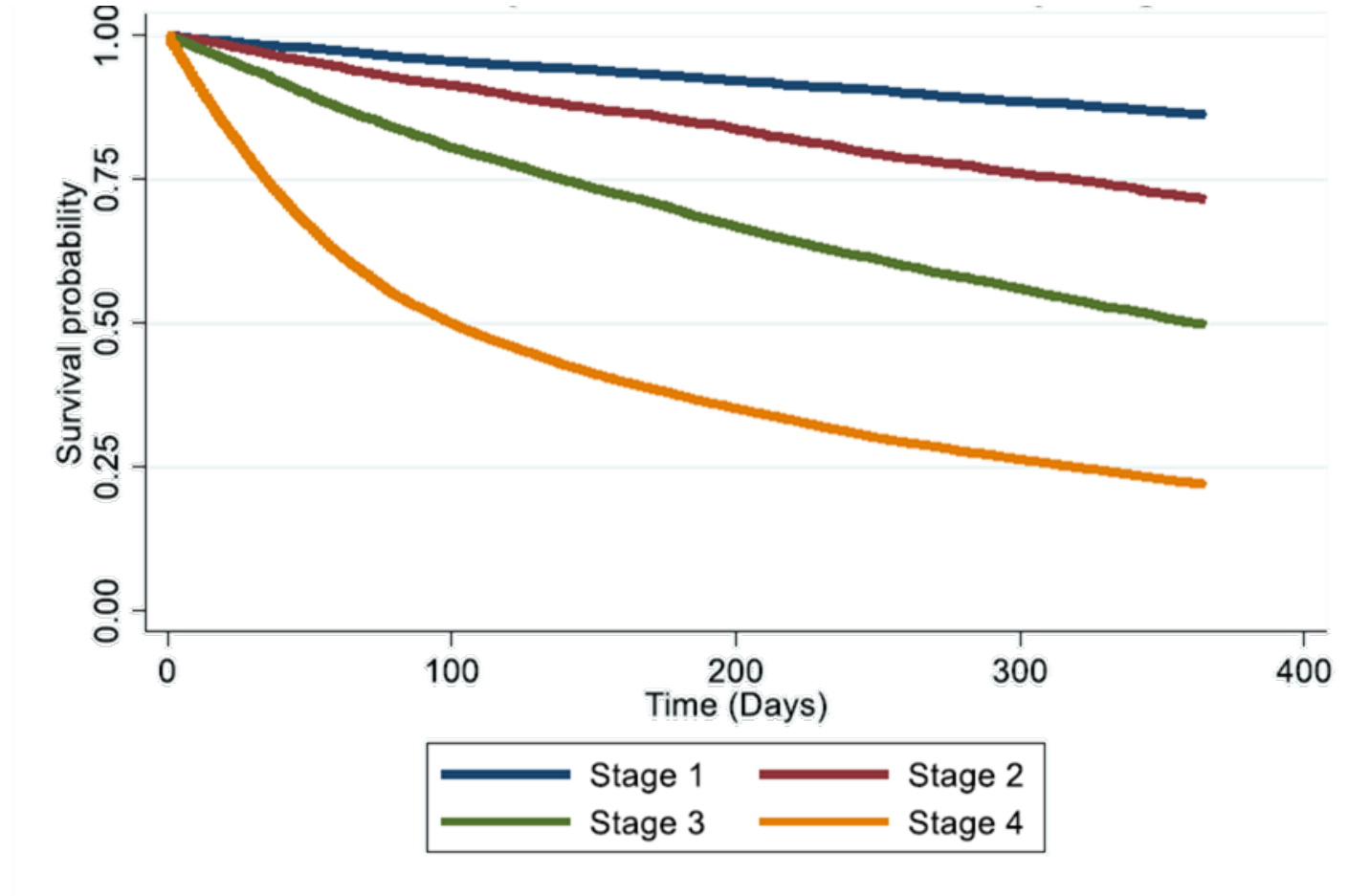


18.6% of patients in England are Stage III at diagnosis

NLCA, National Lung Cancer Audit; NSCLC, non-small cell lung cancer.

1. Royal College of Physicians. NLCA Annual Report 2024. Available at: https://www.lungcanceraudit.org.uk/wp-content/uploads/2024/05/NLCA-State-of-the-Nation-2024_16.05.24_V2.0.pdf (Last accessed June 2024).

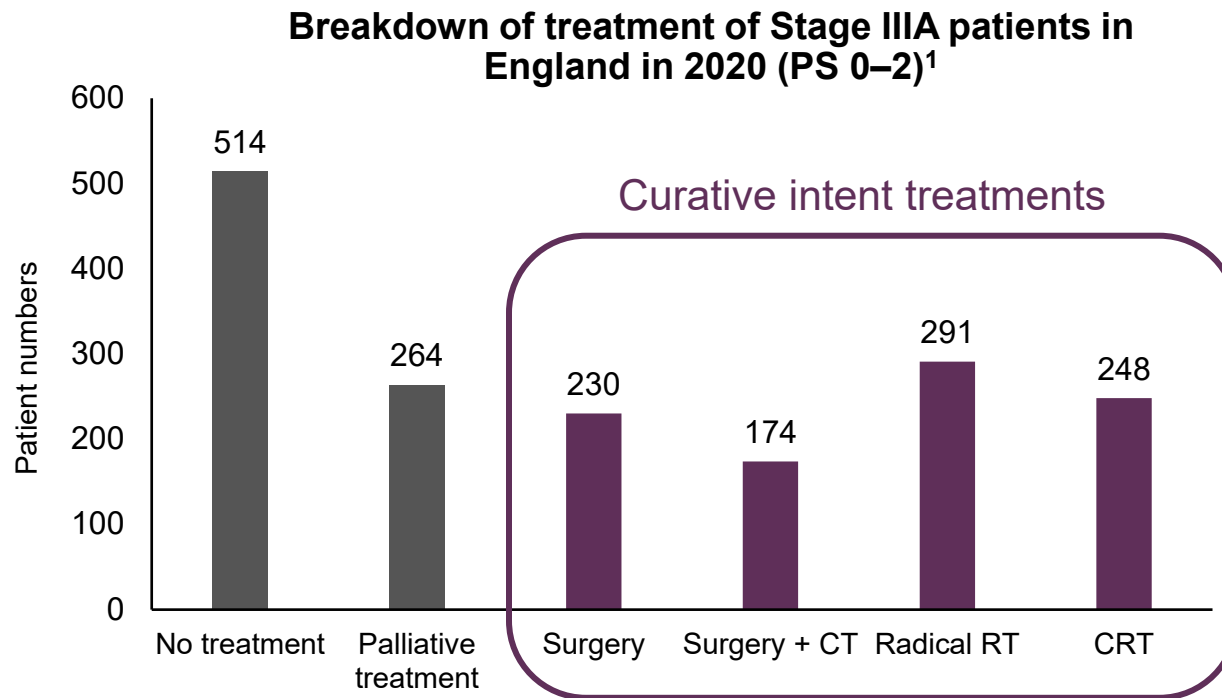
In 2020, the median OS for Stage III NSCLC in England was 362 days¹



NSCLC, non-small cell lung cancer; OS, overall survival.

Historical UK Stage III NSCLC treatments¹

Only 51% of Stage IIIA NSCLC patients in England received treatment with curative intent in 2020*



The lack of curative intent treatment may reflect:

- The significant weight loss, decline in performance status, stage evolution, and serious intercurrent events that often occur during the diagnostic and evaluation process in this patient group²
- Variability in clinical practice and expertise across the UK³

*UK National Lung Cancer Audit Data. COVID-19 greatly impacted the treatment of lung cancers between 2019–2021; this is reflected in statistics reported at the time.¹ The figure shows the treatment received by Stage IIIA NSCLC patients in the UK in 2020. Curative intent treatments include surgery, surgery + chemotherapy, radical radiotherapy, and chemoradiotherapy. CRT, chemoradiotherapy; CT, chemotherapy; NLCA, National Lung Cancer Audit; NSCLC, non-small cell lung cancer; PS, performance status; RT, radiotherapy.

1. Royal College of Physicians. 2022. National Lung Cancer Audit annual report for the audit period 2019 England, Wales and Guernsey and 2020 England only (including data spreadsheet); 2. Robinson AG, et al. *Curr Oncol*. 2015 Dec;22(6):399-404; 3. Sethi T, et al. *Thorax*. 2013 Dec;68(12):1181-5.

Several clinical factors influence the type of multimodality treatment for patients with Stage III NSCLC



While the treatment goal for Stage III NSCLC is to cure, patients with unresectable disease are less likely to be cured when compared with those with resectable disease^{2,3}

Case-specific

The exact sequence and modality of treatment used is keenly debated and highly case-specific¹

Resectability

The choice of multimodal treatment is largely dependent on whether the tumour is potentially resectable and therefore if surgery has a role²

Stage

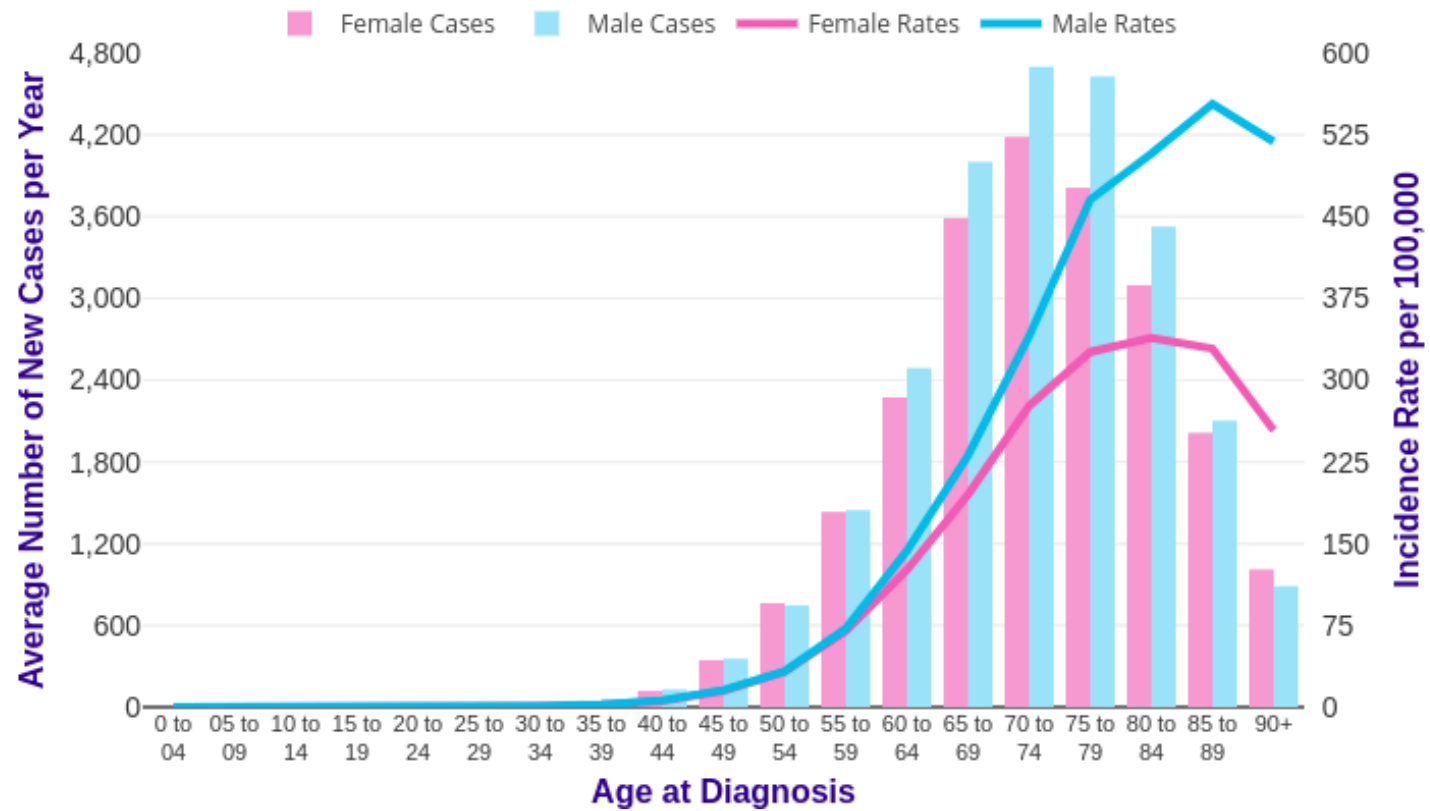
Classification of Stage IIIA and stage IIIB disease indicates the tumour may be either resectable or unresectable, while a classification of stage IIIC disease generally indicates an unresectable tumour^{3,4}

NSCLC, non-small cell lung cancer.

1. Yoon SM, et al. *World J Clin Oncol*. 2017 Feb 10; 8(1): 1–20; 2. Patel V, et al. *Oncologist*. 2005;10(5):335-344; 3. Evison M, et al. *Thorax* 2018;73:1105-1109; 4. Postmus PE et al. *Ann Oncol* 2017; 28 (Supplement 4): iv1-iv21.

Patient population

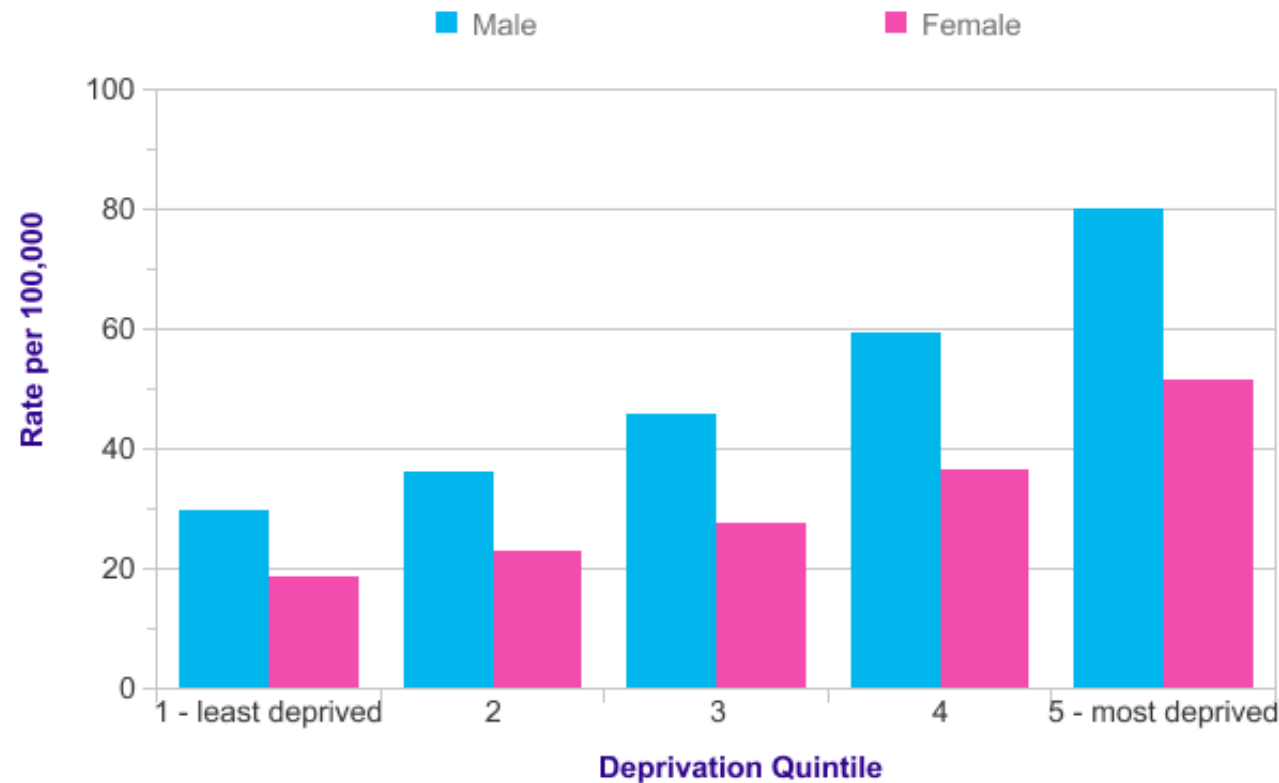
Lung cancer incidence by age



On average, **4 in 10** new lung cancer cases (44%) are in patients aged 75 years and older

Patient population

Lung cancer mortality by deprivation index

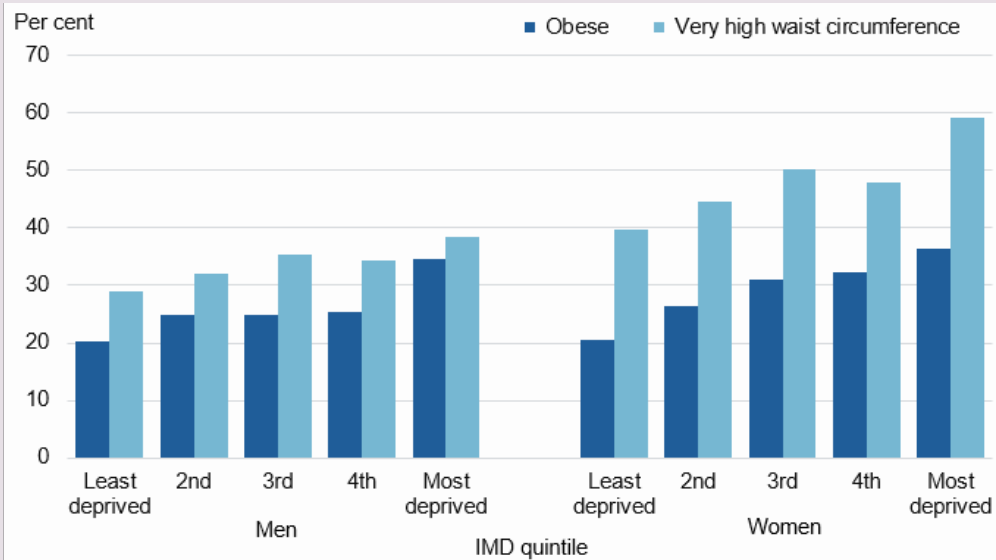


Mortality rates are **170% higher** for males living in the most deprived areas compared with the least deprived, and **176% higher** for females

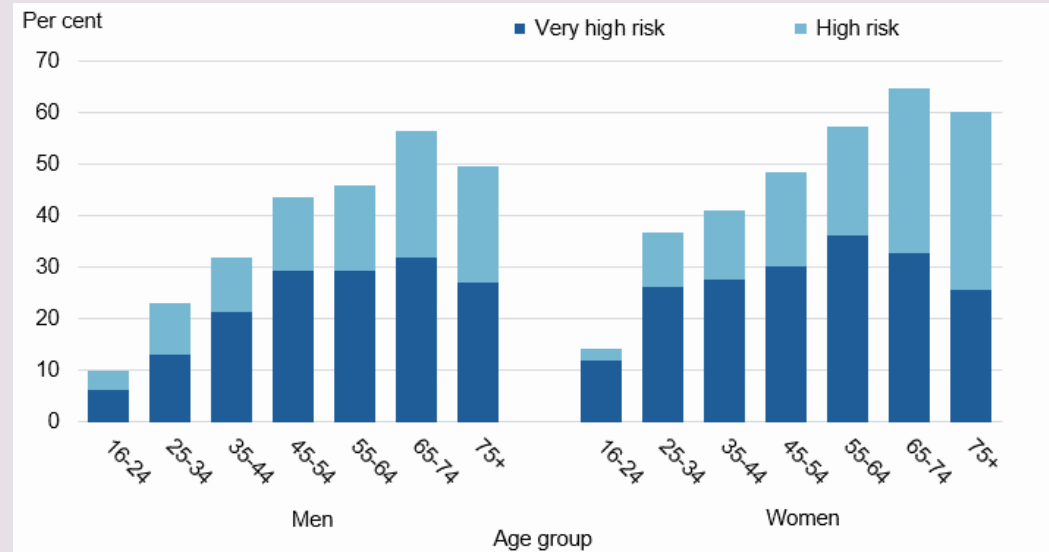
Obesity

- Obesity has significant effects on respiratory function¹
- Effects are multifactorial and not fully understood¹

Adult obesity and waist circumference, by deprivation level²



Weight related health risk in adults²



- Lung cancer is more common in the older population, who have an increased risk of comorbidities¹
- In one study, 54% of patients presented with three or more comorbidities²
- In inoperable Stage III disease, overall survival has improved in clinical trials over the past 5–10 years³⁻⁵
- One randomised retrospective comparison in early-stage NSCLC with SABR compared to surgery has suggested:⁶
 - Surgery has improved overall survival vs. SABR
 - Cancer-specific survival is similar between surgery and SABR

Therefore, as we treat (and hopefully cure) more Stage III patients, are more going to die of their comorbidities rather than their cancer?

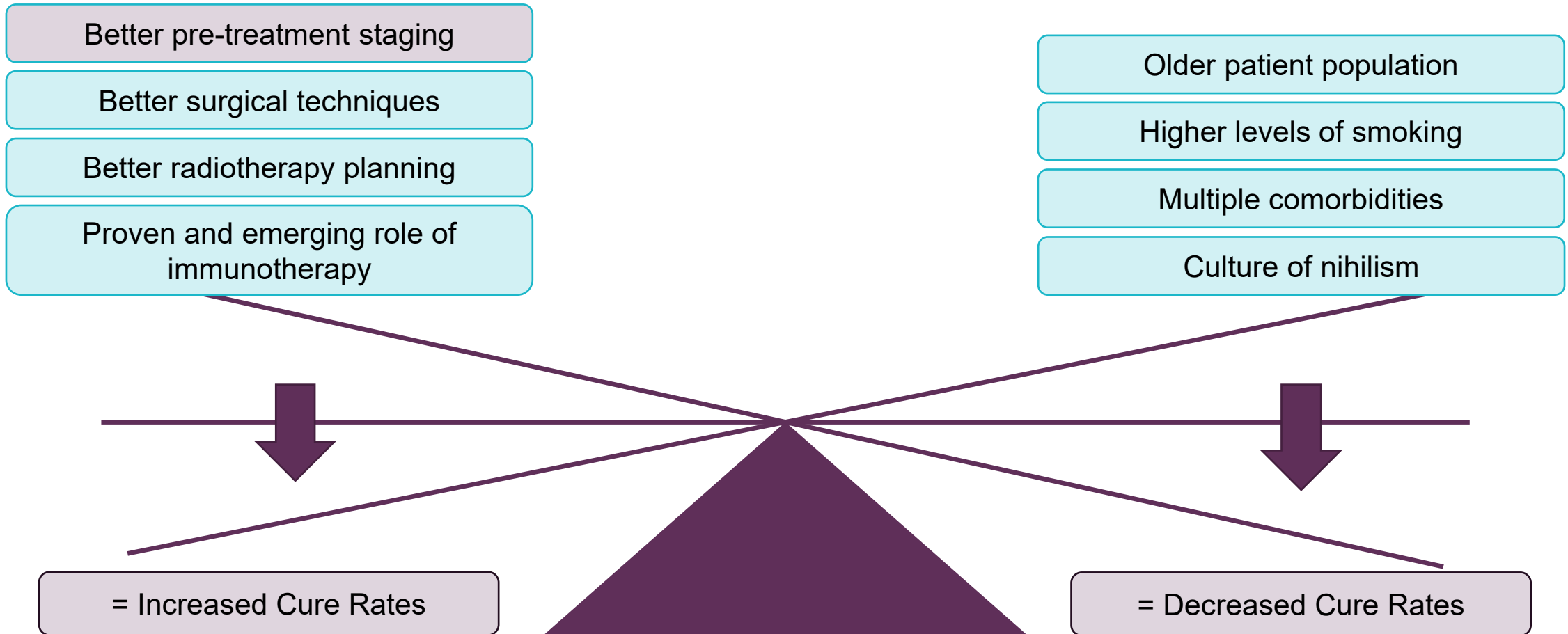
NSCLC, non-small cell lung cancer; SABR, stereotactic ablative radiotherapy.

1. Islam KM et al *Cancer Epidemiol Biomarkers Prev.* 2015;24(7):1079-85; 2. Tammemagi CM et al. *Int J Cancer* 2003;103(6):792-802; 3. Bradley JD, et al. *Lancet Oncol.* 2015;16:187–199; 4. Senan S, et al. *J Clin Oncol.* 2016;34:953962; 5. Antonia SJ et al. *N Engl J Med* 2018; 6. Spencer K et al. *Eur Respir J.* 2019; 53(6):1801568.

Therefore, in Stage III NSCLC, are we battling against a “Perfect Storm”?



The Stage III balancing act



Case 1 - background



- **69-year-old man**
- **Incidental RLL nodule on CTU**
- **PET – 32mm RLL mass SUV 2.8, 2x R10 nodes**
- **FEV 1 – 2.7L (75%) TLCO - 67%**
- **CPEX – VO2 max - 17.4, AT 14**
- **EBUS – station 7 and R11 positive – adenocarcinoma, PD-L1 95%**
- **PMH – HTN, IHD – previous MI and stents 2011, TIA**
- **PS1 current smoker 50 PYH, 20/day**

AT, anaerobic threshold; CPEX, cardiopulmonary exercise testing; CTU, CT urogram; EBUS, endobronchial ultrasound; FEV1, forced expiratory volume in 1 second; HTN, hypertension; IHD, ischemic heart disease; MI, myocardial infarction; PD-L1, programmed death-ligand 1; PET, positron emission tomography; PMH, past medical history; PS, performance status; PYH, pack years history; RLL, right lower lobe; SUV, standard uptake value; TIA, transient ischemic attack; TLCO, transfer factor for carbon monoxide; VO2 max, maximum volume of oxygen.

Case 1 – treatment plan

Planned for neoadjuvant carboplatin/paclitaxel/nivolumab

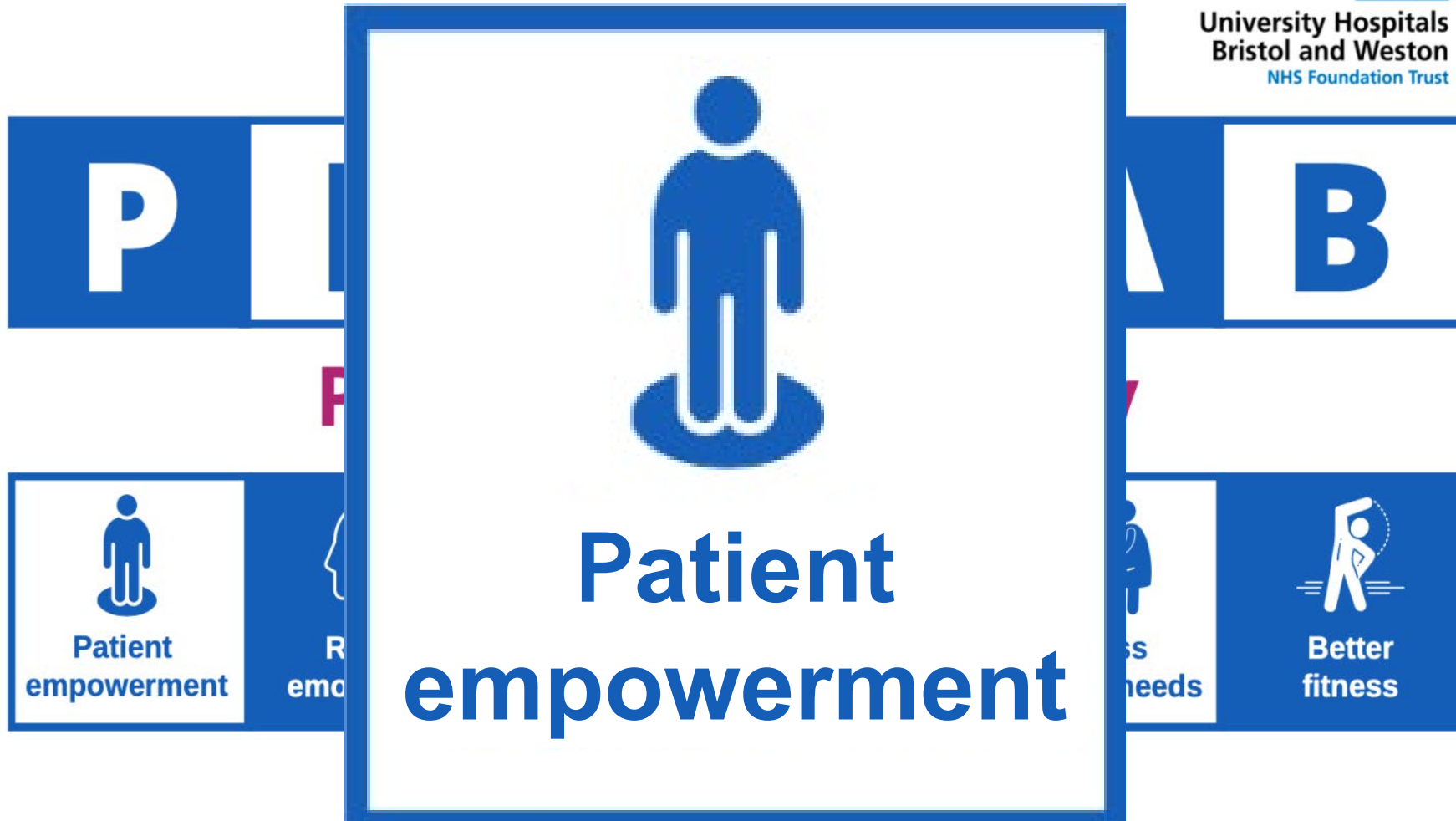
How can we ensure he completes all his treatment and optimise his pathway?

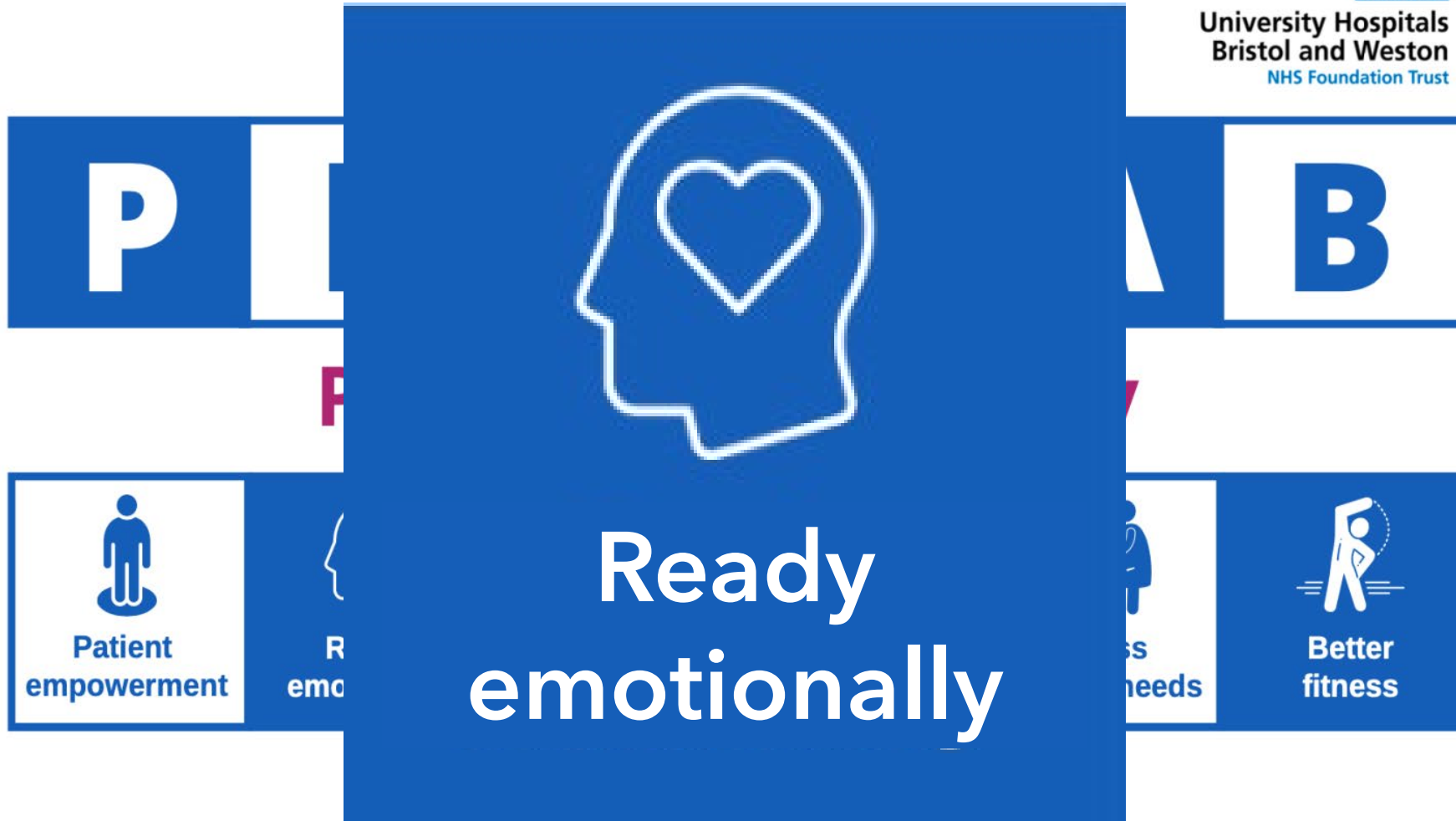
Please refer to the individual SmPCs for each product before prescribing, to review detailed information on indications, posology, special warnings, adverse events and their management.

P R E H A B

Preparing for surgery







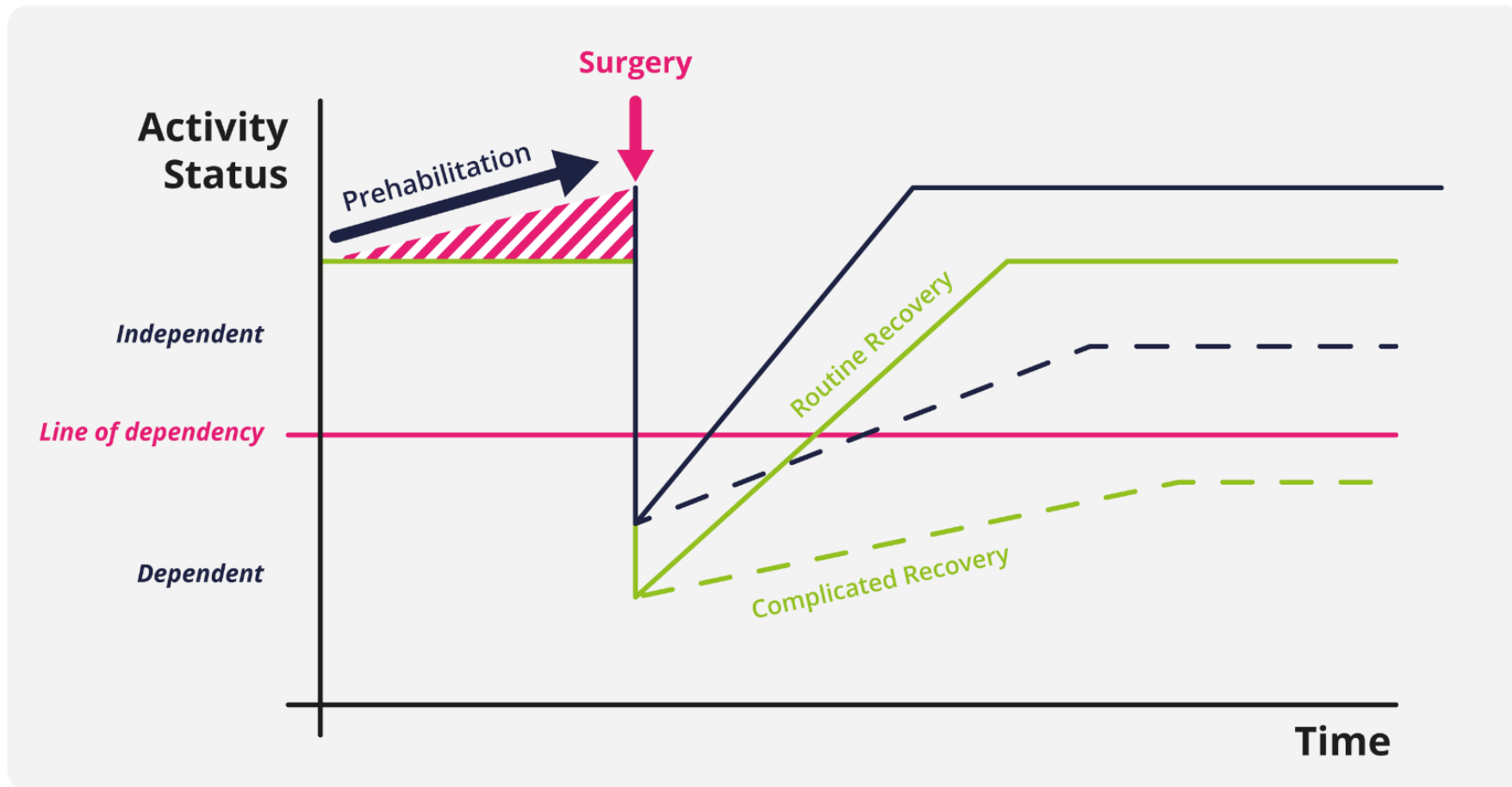








The perioperative period



Benefits to the patient of prehabilitation

Improved aerobic capacity and functional status

Improved anxiety and mood

Reduced neoadjuvant side effects

Improved treatment compliance

Quicker post op recovery

Reduced post op complications

Reduce critical care length of stay

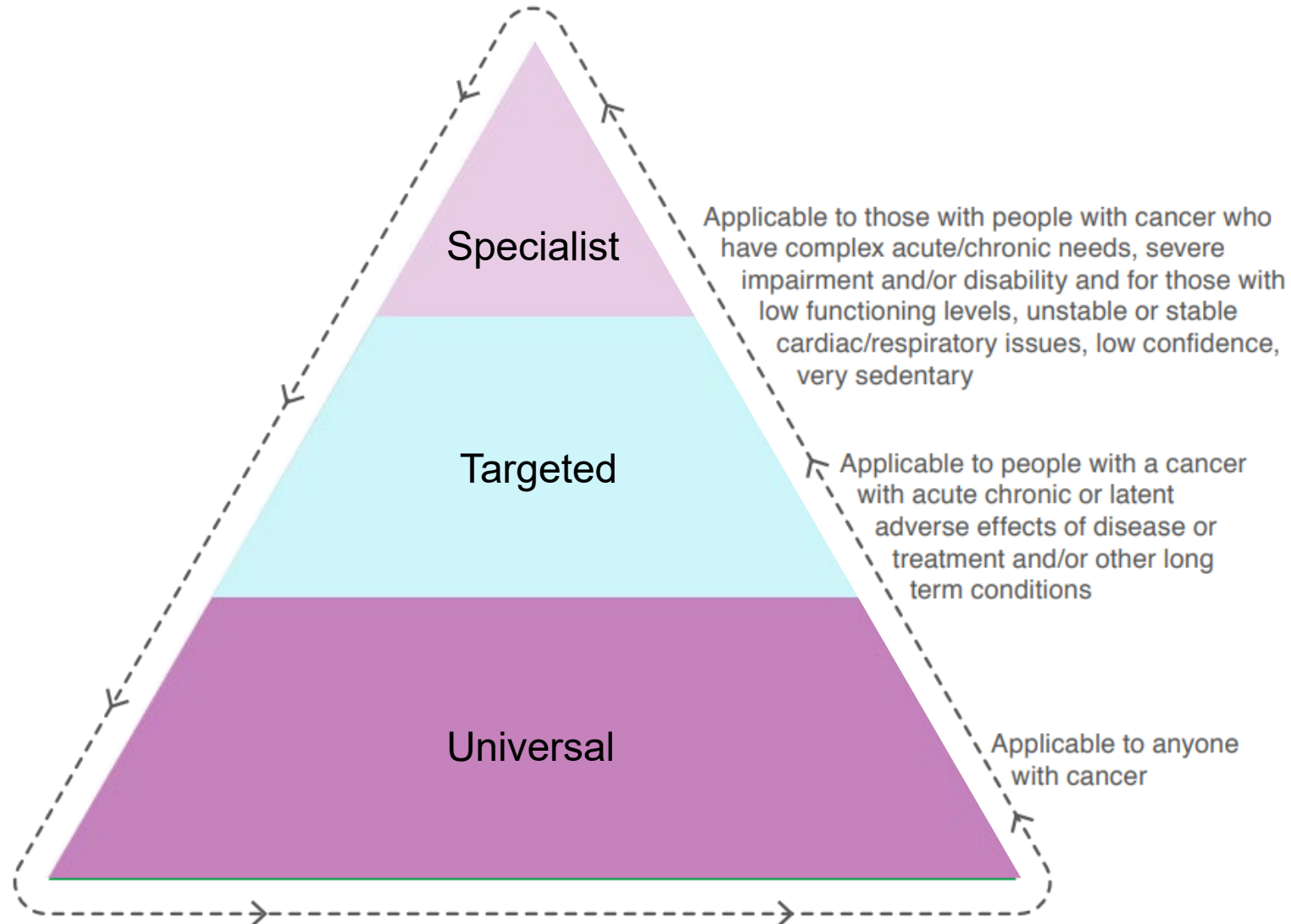
Reduced hospital length of stay

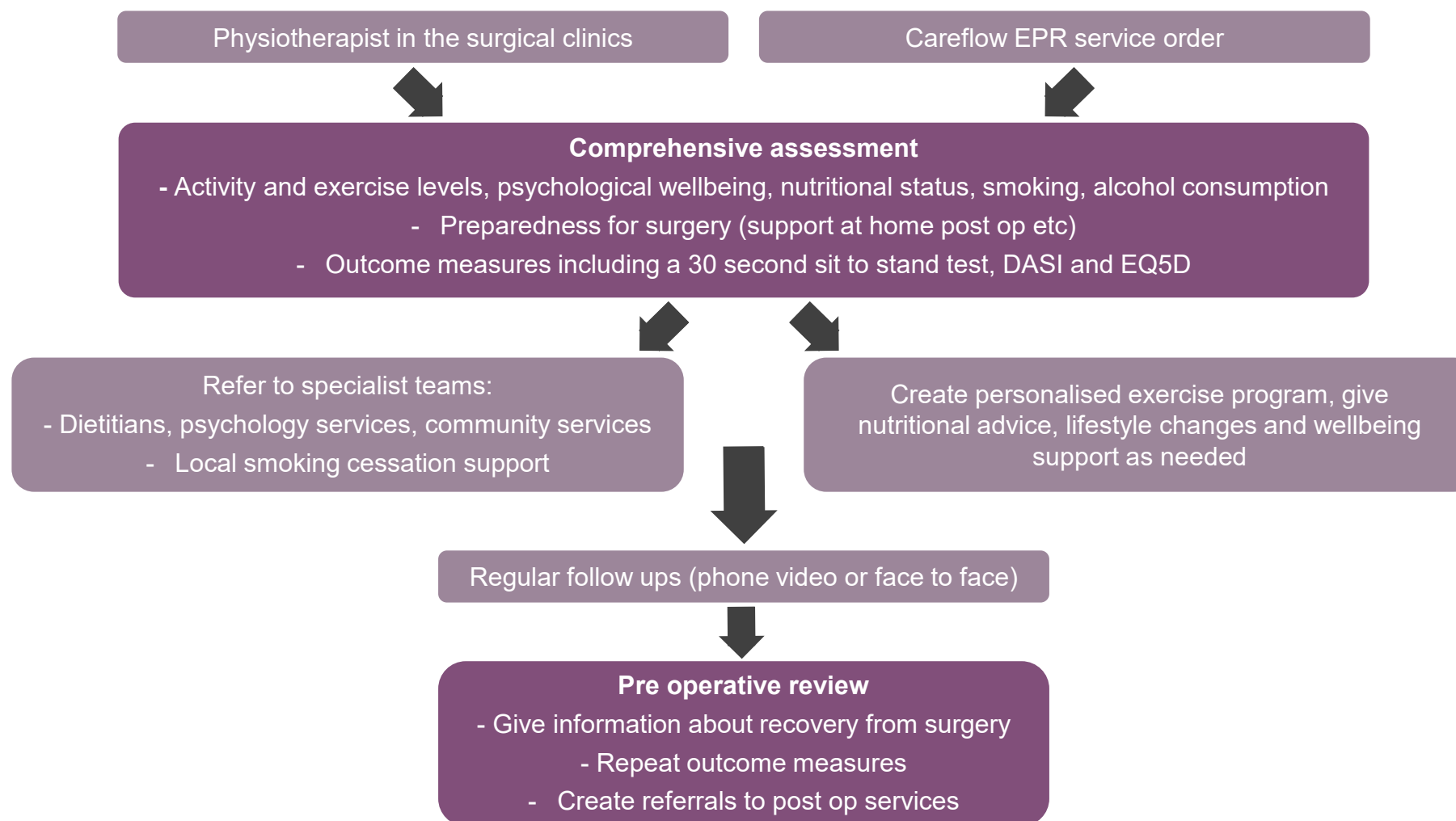
Reduced ED attendance rates

Attainment of cancer performance standard

ED; emergency department.

Prehabilitation interventions





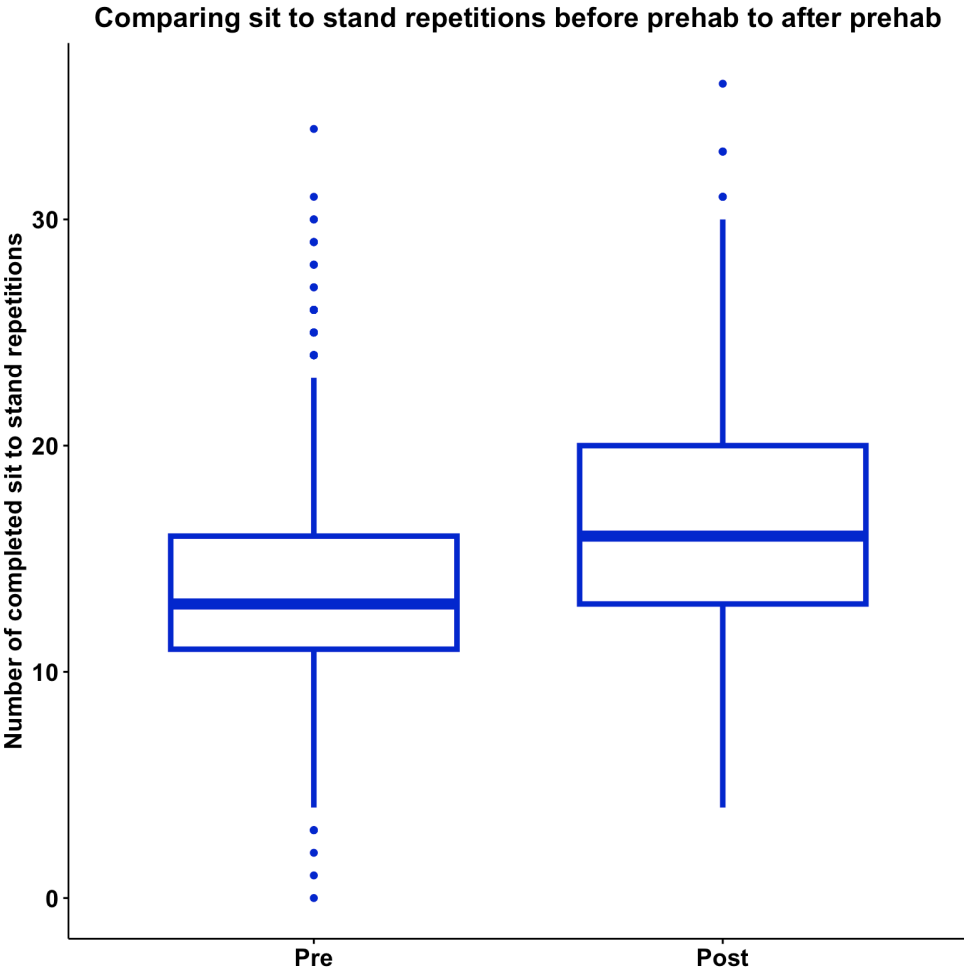
DASI, Duke activity status index; EPR, electronic patient record; EQ5D, euroQol-5 dimension.



	Female	Male
Age	Average 30 second STS score	
60–64	12–17	14–19
65–69	11–16	12–18
70–74	10–15	12–17
75–79	10–15	11–17
80–84	9–14	10–15
85–89	8–13	8–14
90–94	4–11	7–12

STS, sit to stand.

Comparing sit to stand repetitions



N	Initial	Final	Mean Difference	P Value
493	14	16.7	2.7	< 0.001

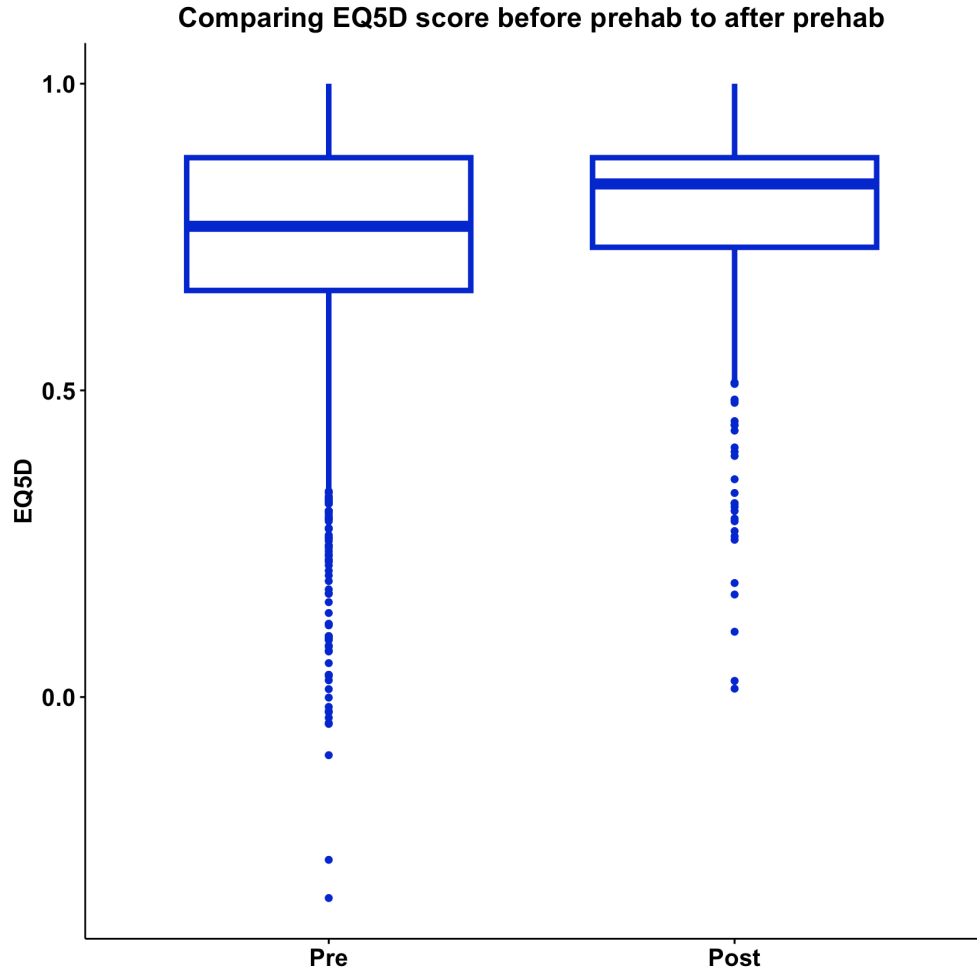
Case 2 - background



- **57-year-old female**
- **Resectable lung cancer**
- **FEV 1: 2.58L (91.7%) TLCO 7.9 (111%)**
- **Nonsmoker**
- **Moderately active, nil formal exercise**
- **Previous poor inpatient experience following colorectal surgery**
- **Anxiety and panic attacks**
- **Fearful of coming into hospital, affecting decision for treatment**

FEV1, forced expiratory volume in 1 second; TLCO, transfer factor for carbon monoxide.

Comparing EQ5D score



N	Initial	Final	Mean Difference	P Value
496	0.74	0.79	0.05	< 0.001

EQ5D, euroQol-5 dimension.

“I felt Tanya and the prehab physios bent over backwards to help me to the point where I was ready for surgery physically and mentally. I was terrified of surgery before I met them and had even experienced panic attacks in simple appointments. But in 6 weeks the team got me into a really good place. They restored my trust in hospitals.”

	Prehab	No prehab	
Elective admissions: ALL	1753	10626	
Mean elective LoS: ALL	7.7	7.9	No Significant Difference
A&E Attendances within 90 days of elective discharge, per 1000 elective discharges	157.44	206.76	Prehab Significantly Lower
Non-Elective Hospital Admissions within 90 days of elective discharge, per 1000 elective admissions	317.2	377.6	Prehab Significantly Lower
Mean Non-elective LoS	5.1	8.2	Prehab Significantly Lower

A&E, accident and emergency; LoS, length of stay.

Case 3 - background



- **59-year-old woman, cough and shortness of breath**
- **RLL lung mass**
- **PET shows 4cm RLL mass with mediastinal invasion plus enlarged nodes in R10, R4 and station 7**
- **EBUS – positive nodes R10, R4, 7 squamous cell ca PD-L1 100%**
- **FEV 1 1.4L 55% TLCO 50%, PS1**
- **PMH - IHD – exertional angina, COPD, BMI 18**
- **Current smoker 10/day, 60 pyh**

BMI, body mass index; COPD, chronic obstructive pulmonary disease; EBUS, endobronchial ultrasound; FEV1, forced expiratory volume in 1 second; IHD, ischemic heart disease; PD-L1, programmed death-ligand 1; PET, positron emission tomography; PMH, past medical history; PS, performance status; RLL, right lower lobe; TLCO, transfer factor for carbon monoxide.

Case 3 – treatment plan

Planned for radical concurrent chemo/RT plus radiotherapy
66Gy/33# followed by adjuvant durvalumab

How can we ensure he completes all his treatment and optimise his pathway?

Please refer to the individual SmPCs for each product before prescribing, to review detailed information on indications, posology, special warnings, adverse events and their management.

Gy, gray; RT, radiotherapy.

PRE ABS

Prehabilitation Radiotherapy Exercise, smoking Habit cessation And Balanced diet Study

Prehabilitation

Radiotherapy

Exercise, smoking

Habit cessation

And

Balanced diet

Study

Dr Kevin Franks, CI

Dr Carole Burnett, Co-CI

Emma Morgan, Research Radiographer

Sam Greenwood-Wilson, Research Radiographer

Gill Williams, Dietetic Lead

Prof Rachael Murray, Smoking Cessation Lead

Dr Shaunna Burke, Exercise Lead

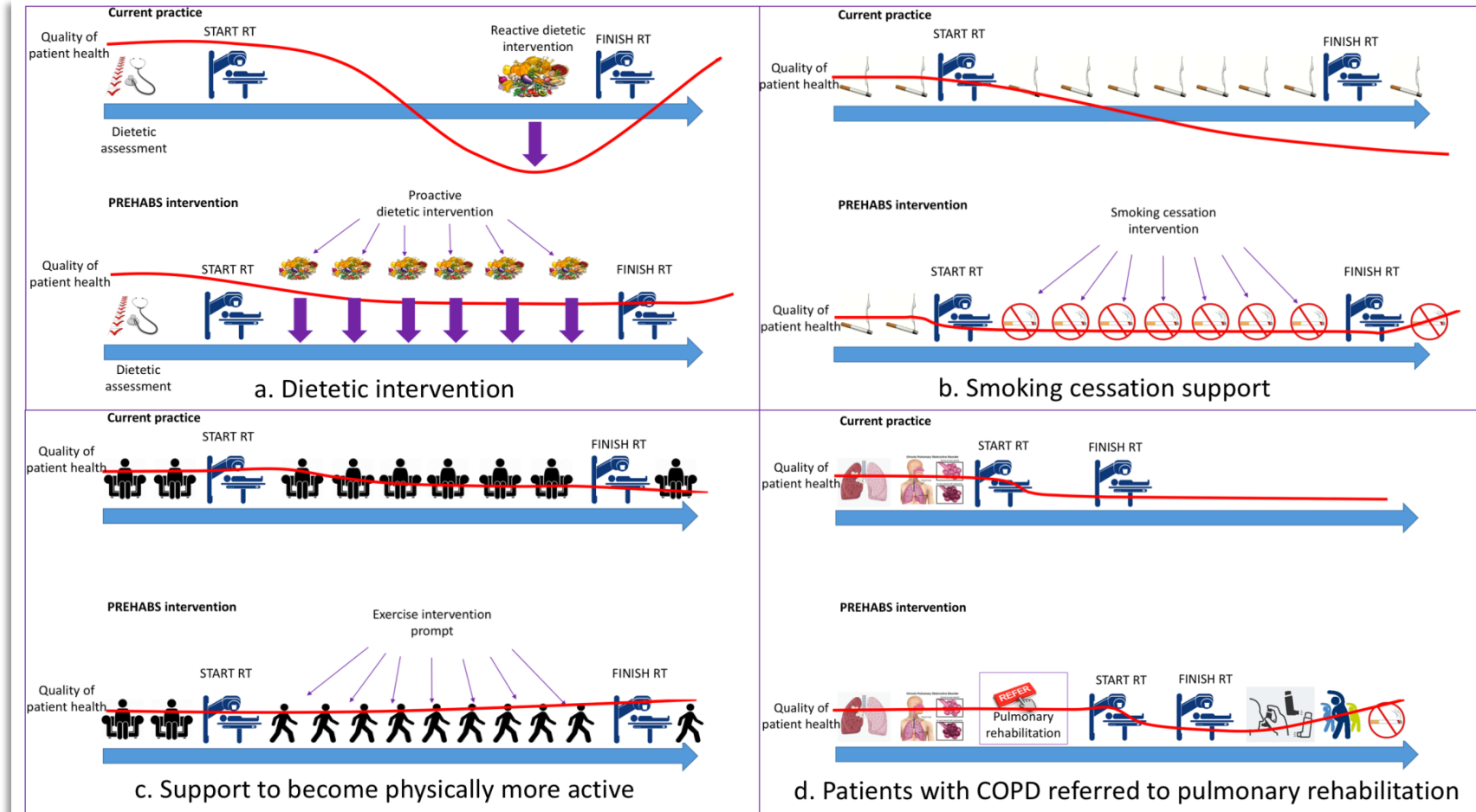
Dr Janine Bestall, Qualitative Research Lead

Contact: leedsth-tr.prehabs@nhs.net



University of
Nottingham
UK | CHINA | MALAYSIA





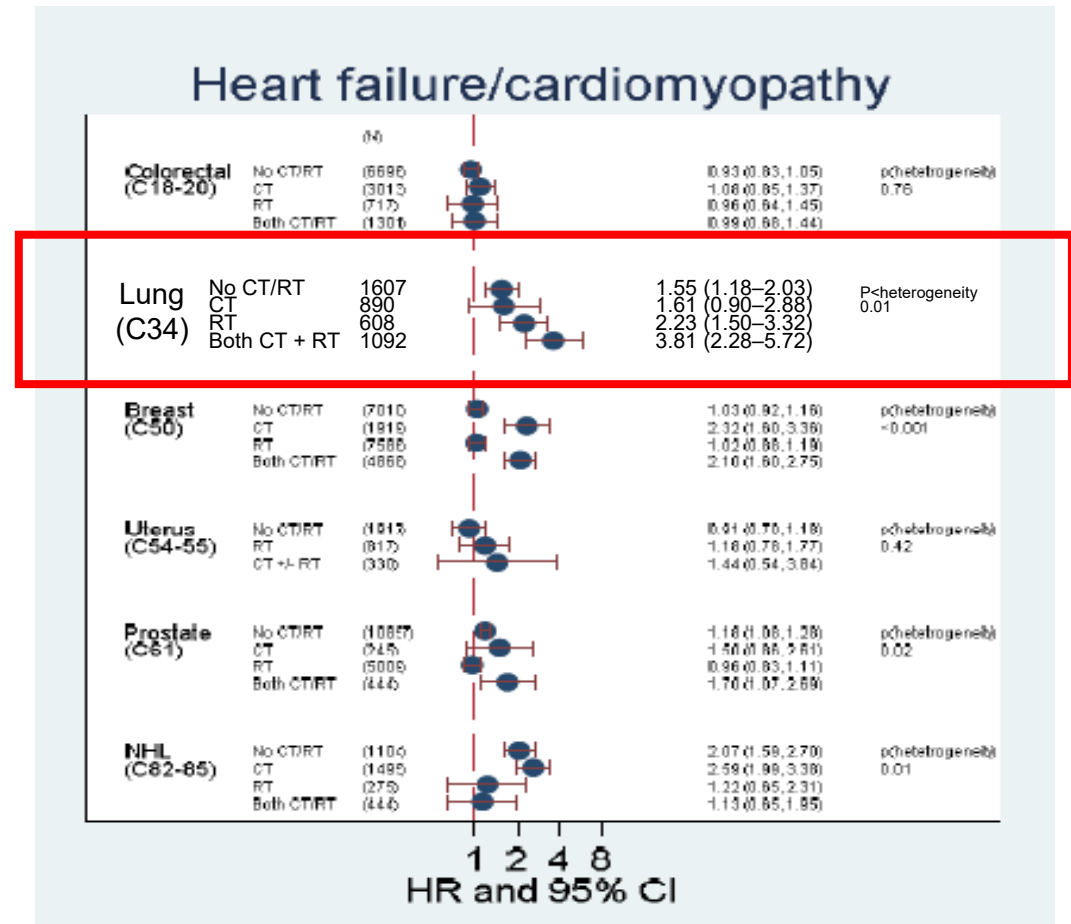
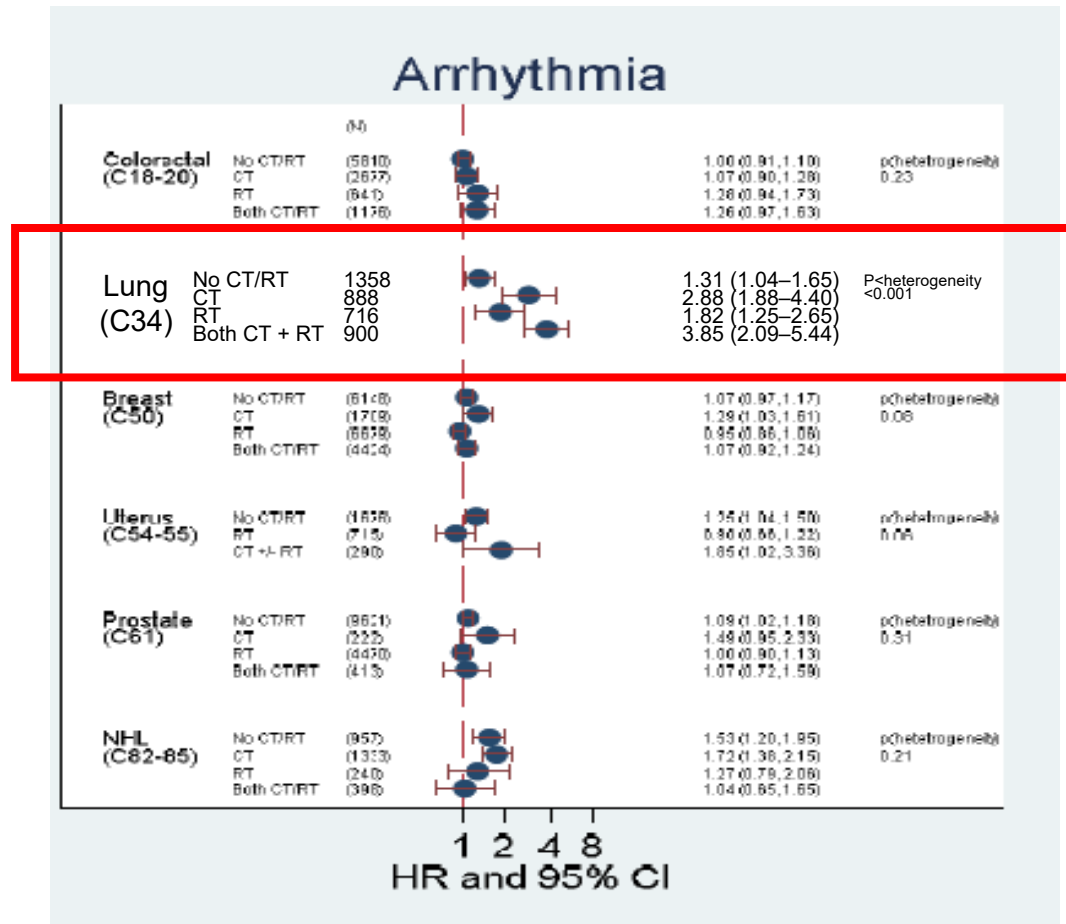
Optimise medical co-morbidities-cardiac



Cardiac complications of treatment:

- **108 215 individuals with a diagnosis of a cancer of interest with F/U >1 year**
- **Matched to 523 541 controls**
- **Cardiac/Vascular Outcomes**
 - Coronary Artery Disease
 - Arrhythmias
 - Heart Failure/Cardiomyopathy
 - Valvular heart disease
 - Pericarditis
 - Stroke
 - PVD
 - VTE
- **Outcomes with chemotherapy, radiotherapy and chemotherapy + RT analysed**

Optimise medical co-morbidities-cardiac



CI, confidence interval; HR, hazard ratio; NHL, non-Hodgkin's lymphoma.

Optimise medical co-morbidities-cardiac



- **Avoiding cardiac toxicity in lung cancer patients treated with curative-intent radiotherapy to improve survival, funded by Yorkshire Cancer Research**
- **Joint project with University of Manchester/Christie Hospital and University of Leeds/Leeds Cancer Centre**
- **Work ongoing with retrospective data analysis and prospective trials/planning studies**
- **Sun et al^{*1} – Cardiac events post-RRT**
 - ~10% of patients (n=52/600)
 - Of these, 37% ischaemic (38% G5), 15% pericardial effusions, 25% arrhythmias, 23% cardiac failures
 - 58% of patients with ischaemic events had no cardiac history
- **Sun et al²**
 - High prevalence of baseline cardiovascular disease in people undergoing radiotherapy for NSCLC
 - Significant rates of post-radiotherapy cardiovascular hospitalisation
 - Small proportion of deaths are attributed to cardiovascular disease
 - Suggests that cardiovascular death is greatly under-reported in official statistics

*At a median follow up of 31 months, 52 patients experienced cardiac events following radiotherapy. This cohort comprised 33 males with a median age of 73 years and a median Charlston score of 6. Four (12.5%) of these patients had received adjuvant radiotherapy and 10 (14.5%) patients had received concurrent chemoradiotherapy. No patients were never or ex-smokers, defined as <10 pack years; ex-smokers included 9 patients with <20 pack years, 15 with 20 to 40 pack-years, 9 with >40 pack-years. Nine patients were current smokers. Of the cardiac events reported, 37% were ischaemic events, which were grade 5 in 19 patients and led to death in 7 patients. The majority (58%) of patients with an ischaemic event did not have a known pre-existing cardiac condition; of the 19 patients with an ischaemic event, 8 had a prior reported cardiac anomaly, including 4 patients with a previous myocardial infarction, 2 with ischaemic heart disease one patient each had arrhythmia and a valve abnormality.¹

NSCLC, non-small cell lung cancer; RRT, radical radiotherapy.

1. Sun F, et al. Presented at ELCC conference 2019. Abstract 720; 2. Sun F et al. *Lung Cancer*. 2020;146:1-5.

Optimise medical co-morbidities-cardiac



- Avoiding cardiac toxicity in lung cancer patients treated with curative-intent radiotherapy to improve survival, funded by Yorkshire Cancer Research
- Joint project with Yorkshire Cancer Research Centre
- Work ongoing with Yorkshire Cancer Research Centre
- Sun et al^{*1} – Cardiac events in lung cancer patients treated with curative-intent radiotherapy
 - ~10% of patients experienced cardiac events
 - Of these, 37% were ischaemic events
 - 58% of patients with an ischaemic event did not have a known pre-existing cardiac condition
- Sun et al²
 - High prevalence of cardiac conditions
 - Significant rate of cardiac events
 - Small proportion of deaths are attributed to cardiovascular disease
 - Suggests that cardiovascular death is greatly under-reported in official statistics

Should we screen all patients for cardiac conditions, and should some/all patient be reviewed by a cardiologist before and after treatment?

*At a median follow up of 31 months, 52 patients experienced cardiac events following radiotherapy. This cohort comprised 33 males with a median age of 73 years and a median Charlston score of 6. Four (12.5%) of these patients had received adjuvant radiotherapy and 10 (14.5%) patients had received concurrent chemoradiotherapy. No patients were never or ex-smokers, defined as <10 pack years; ex-smokers included 9 patients with <20 pack years, 15 with 20 to 40 pack-years, 9 with >40 pack-years. Nine patients were current smokers. Of the cardiac events reported, 37% were ischaemic events, which were grade 5 in 19 patients and led to death in 7 patients. The majority (58%) of patients with an ischaemic event did not have a known pre-existing cardiac condition; of the 19 patients with an ischaemic event, 8 had a prior reported cardiac anomaly, including 4 patients with a previous myocardial infarction, 2 with ischaemic heart disease one patient each had arrhythmia and a valve abnormality.¹

NSCLC, non-small cell lung cancer; RRT, radical radiotherapy.

1. Sun F, et al. Presented at ELCC conference 2019. Abstract 720; 2. Sun F et al. *Lung Cancer*. 2020;146:1-5.

Beatson Glasgow programme



- **All lung cancer patients going for radical treatment will be seen at the Prehab clinic in the first week post referral, where there is:**
 - Smoking cessation assessment
 - Physiotherapist
 - Nursing assessment
 - Pharmacy input – to rationalise medication
 - Links with onco-geriatric service for referral if necessary (regular input to be assessed)
 - On-site – cardiology and respiratory services if required



Case 3

- You review during week 4 of the chemo/RT
- She has developed grade 2 oesophagitis
- Bloods show Hb 100, WCC 6.5, Neuts 3.1, lymphocytes 0.3, Plt 300
- Na 137, K 4, Ur 7, Cr 75

What interventions should you commence?

Cr, creatinine; Hb, hemoglobin; K, potassium; Na, sodium; Neuts, neutrophils; Plt, platelets; RT, radiotherapy; Ur, urea; WCC, white cell count.

- **Malnutrition is common in patients with lung cancer and is associated with negative prognosis and treatment outcomes**
- **The role of the dietitian is less well defined in lung cancer pathways**
- **Innovative nutrition support initiatives during radiotherapy at Leeds Teaching Hospitals:**
 - Outpatient initiation of nasogastric (NG)/nasojejunal (NJ) tube feeding in the RT department
 - Yorkshire Cancer Research funded PREHABS study – feasibility study of embedding routine dietetic intervention (& other lifestyle interventions) into the radical RT lung pathway

NG, nasogastric; NJ, nasojejunal; RT, radiotherapy.

Dietitian section PREHABS



- **2021–2022 - 53 patients consented to dietary intervention**
- **Aim: Dietetic interventions to improve nutritional status compromised by symptoms such as anorexia and oesophagitis**
- **Interventions included:**
 - Oral interventions (advice on texture modification, increasing nutrient density and the use of ONS)
 - Follow up post completion of RT
 - The provision of enteral nutrition via a feeding tube where severe oesophagitis occurred

ONS, oral nutritional supplements; RT, radiotherapy.

- 20

-

-

Conclusions:

- Feasible to embed dietetic service in lung pathways
 - Reduction in hospital admissions
- Increased chance of receiving adjuvant immunotherapy
 - Highly valued by patients

ONS, oral nutritional supplements; RT, radiotherapy.

Outpatient initiation of NG/NJ tube feeding in the radiotherapy department



- Prior to 2015, initiation of NG/NJ tube feeding during RT at Leeds Teaching Hospitals required admission to a ward to establish feed and tube competence (4–7 nights duration typically)
- Hospital admission is commonly cited by patients as a barrier to accepting enteral feeding tube insertion and enteral feeding during RT
- In 2015 the RT outpatient Dietetic Service (working alongside key-stakeholders) developed, implemented and evaluated a 'standard operating procedure' for the initiation of NG/NJ feeding in the RT outpatient setting with the following aims:
 - To improve patient outcomes (for those requiring a reactive NG/NJ tube feeding approach during RT)
 - To reduce inpatient admissions for initiation of enteral feeding and associated costs

NG, nasogastric; NJ, nasojejunal; RT, radiotherapy.

- **Suitability for Outpatient NG/NJ management is assessed and documented in MDT notes at initial RT Dietetic review**
- **RT Dietitian initiates proactive discussions with patients & medical team encouraging early tube placement to reduce risk of unplanned admission**
- **Aim to insert NG/ NJ tube, commence enteral feed and training at the beginning of the week (to ensure a minimum of 3 working days available to establish feed tolerance and tube competency before the weekend)**
- **Daily enteral feed administration (+/- IV fluids, bloods) and daily education from RT nurses**
- **Enteral feed company nurse training will take place on Day 2 or Day 3 of enteral feed initiation**
- **Daily Dietetic review during week of initiation (reviewing feed tolerance and adequacy and to facilitate provision of a discharge supply of enteral feed & equipment and enteral feeding paperwork)**

IV, intravenous; MDT, multidisciplinary team; NG, nasogastric; NJ, nasojejunal; RT, radiotherapy.

Original Article

Reducing the risk of death from *Pneumocystis jirovecii* pneumonia after radical radiation therapy to the lung

J. McAleese, L. Mooney, G. M. Walls

*School of Medicine, Dentistry and Biomedical Sciences
Patrick G Johnston Centre for Cancer Research*

Abstract

Aims: Lung cancer is the leading cause of cancer death. Radiotherapy given in the curative setting is associated with a 3% risk of death from *Pneumocystis jirovecii* pneumonia (PJP). Prolonged courses of high-dose steroids also increase the risk of PJP. International guidelines recommend the use of chemoprophylaxis with trimethoprim-sulfamethoxazole for patients at high risk. We assessed the effect of an intervention designed to reduce the impact of PJP.

Materials and methods: Prophylaxis guidelines were introduced in 2016. Case records of patients treated with radical radiotherapy were examined for the periods 2014 to 2015 (pre-intervention) and 2017 to 2018 (post-intervention). In total, 247 patients were treated pre-intervention and 334 post-intervention.

Results: Freedom from PJP death at 1 year was 96% before intervention and 99% after (hazard ratio 0.3, 95% confidence interval 0.1–0.9, $P = 0.029$). Although the rate of use of chemoprophylaxis according to the guideline rose from 1% to 13% ($P = 0.003$), the use of high-dose steroids also fell from 35% to 16% ($P < 0.00001$).

Conclusions: Reducing radiotherapy-associated infections is an important component of radical treatment in lung cancer. Highlighting chemoprophylaxis guidelines reduced the death rate from PJP, with an associated more judicious use of steroids. Advocating prophylaxis in patients with lymphocyte count $<0.6 \times 10^9/l$ is the next intervention to be studied.

Key words

Lung cancer, *pneumocystis jirovecii*, lymphopenia, radiotherapy, steroids.

Managing concurrent chemo/RT toxicity

- Optimising comorbidity management
- Choice of systemic therapy
- Weekly review
- Early symptom management e.g. oesophagitis management
- Patient education – managing fatigue etc.
- PROMS
- Nutrition management



PROMS, patient-reported outcome measures; RT, radiotherapy.

Case 3 - treatment

She completes her concurrent chemo/RT and goes on to receive adjuvant durvalumab

3 months into receiving her adjuvant durvalumab she complains of marked fatigue and joint pain in multiple areas

Please consult durvalumab SmPC for further information on its safety profile, including immune-related adverse events, and their management.

RT, radiotherapy.

Medical causes of fatigue

Endocrinopathies

Cardiac

Haematological

Liver/renal dysfunction

Generalise treatment related fatigue

= investigations to rule out

Fatigue management

Occupational therapy assessment and intervention

Assessing severity and impact of fatigue

Fatigue mapping/diaries

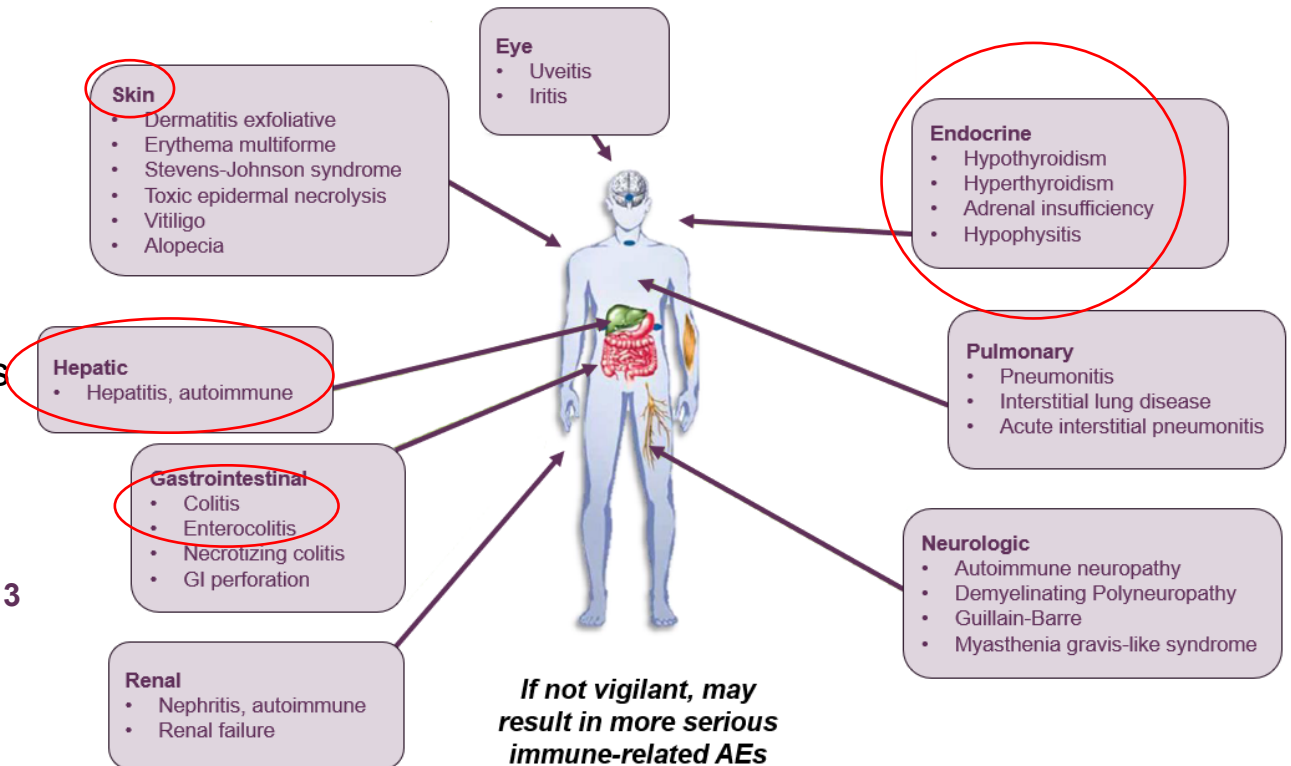
Education and exercise

Strategies such as Plan, Pace, Prioritise

= sleep management training

CPI toxicity – Immune related adverse events¹

- Different to the toxicities than have been seen previously with other SACTs
- **Grade 3–4 reactions²:**
- CTLA4 monotherapy – 10–30%
- PD1/PD-L1 monotherapy – 10–26%
- Combination therapy – approximately 55% in trials
- **Real world data suggests combination rates are higher**
- **Cytokine release syndrome is rarely seen³**



Please consult individual CPI SmPCs for further information on their safety profiles, including immune-related adverse events, and their management.

AE, adverse event; CPI, checkpoint inhibitor; PD-(L)1, programmed death (ligand) 1; SACT, systemic anticancer therapy.

Keep it simple

Mild

Monitor
Plan

Moderate

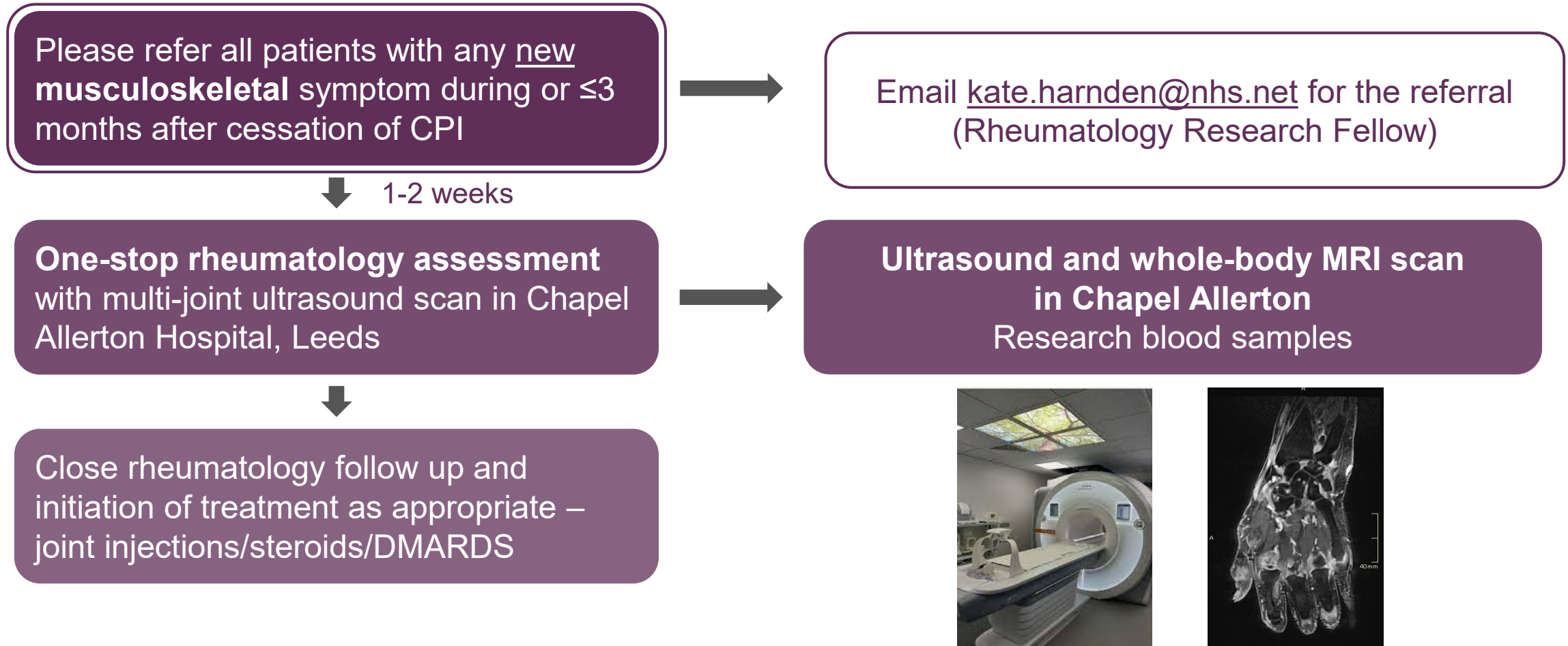
Review
Oral
Steroids
Investigate
Omit I-O

Severe

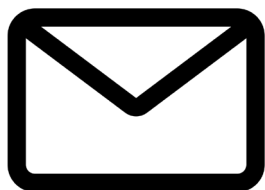
Admit
IV steroids
Consider steroid
sparing agents early
Investigate
Specialist input
Stop I-O

I-O, immunotherapy; IV, intravenous.

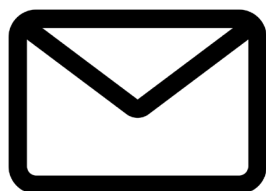
Leeds checkpoint inhibitor (CPI) arthritis pathway



CPI, checkpoint inhibitor; DMARDs, disease-modifying anti-rheumatic drugs; MRI, magnetic resonance imaging.



melissa.taylor@uhbw.nhs.uk
katy.clarke@nhs.net



prehab@uhbw.nhs.uk
leedsth-tr.prehabs@nhs.net



UHBW webpage



Preparing for surgery



Prehabilitation Radiotherapy Exercise, smoking Habit cessation And Balanced diet Study

Thank you

Prescribing information is available at this meeting, and at the following links:
[IMFINZI GB](#) , [IMFINZI NI](#) , [TAGRISSO \(osimertinib\) GB](#) , [TAGRISSO NI](#)

