

# ROLE OF PHYSIOTHERAPY IN CANCER CARE

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**<https://www.erwcpt.eu/>**



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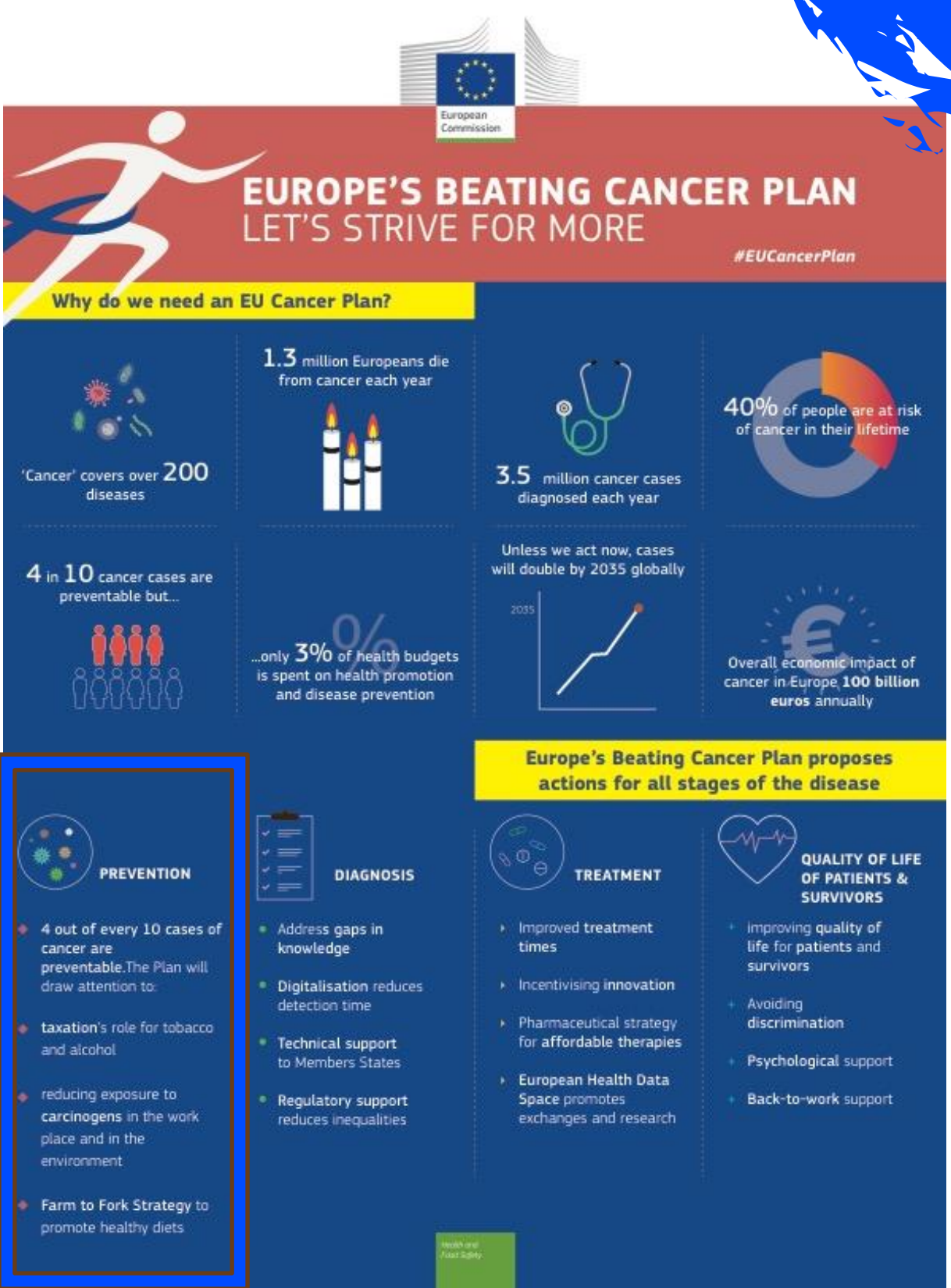
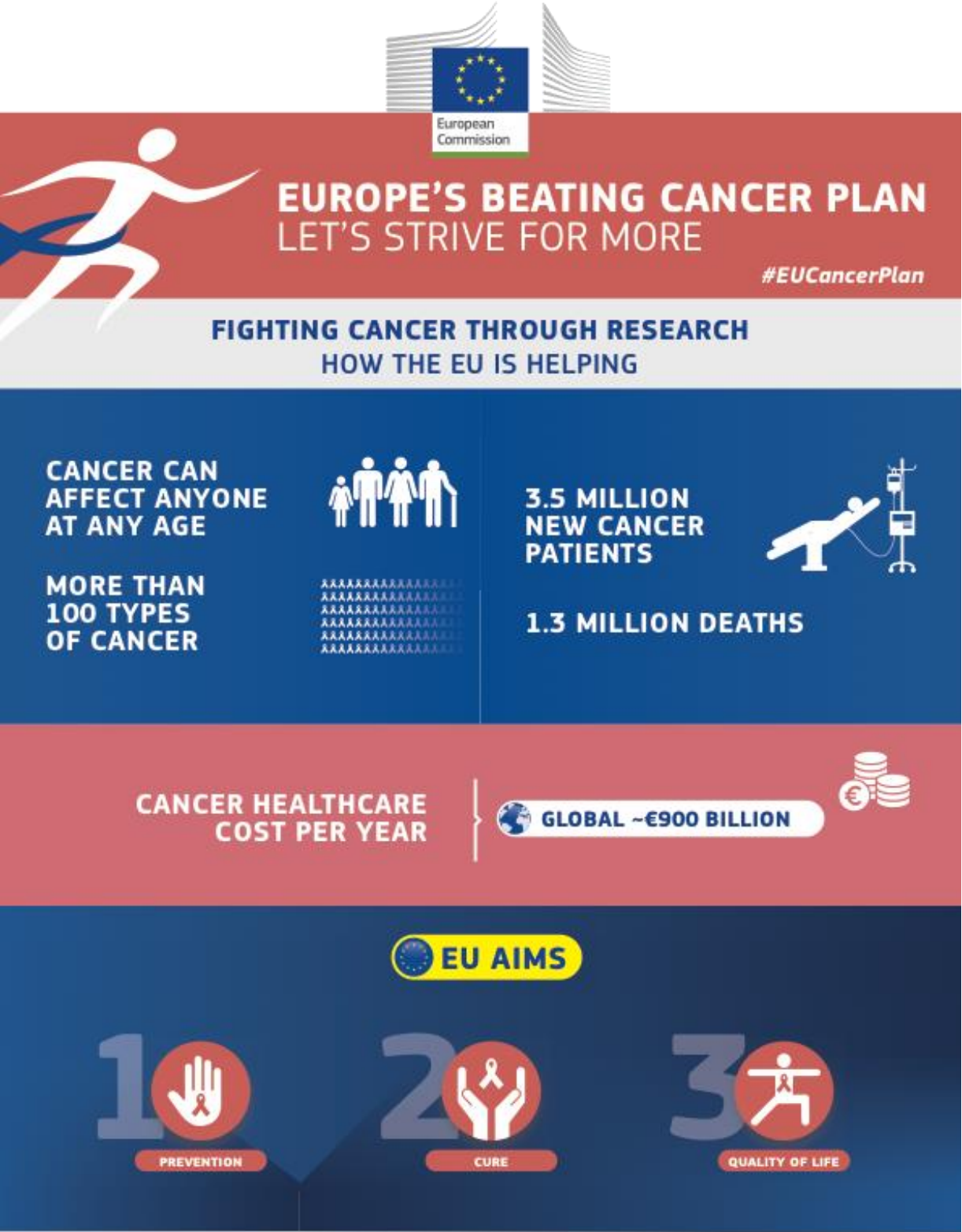
**Europe Region**



**World Physiotherapy**



# INTRODUCTION





# INTRODUCTION





# INTRODUCTION

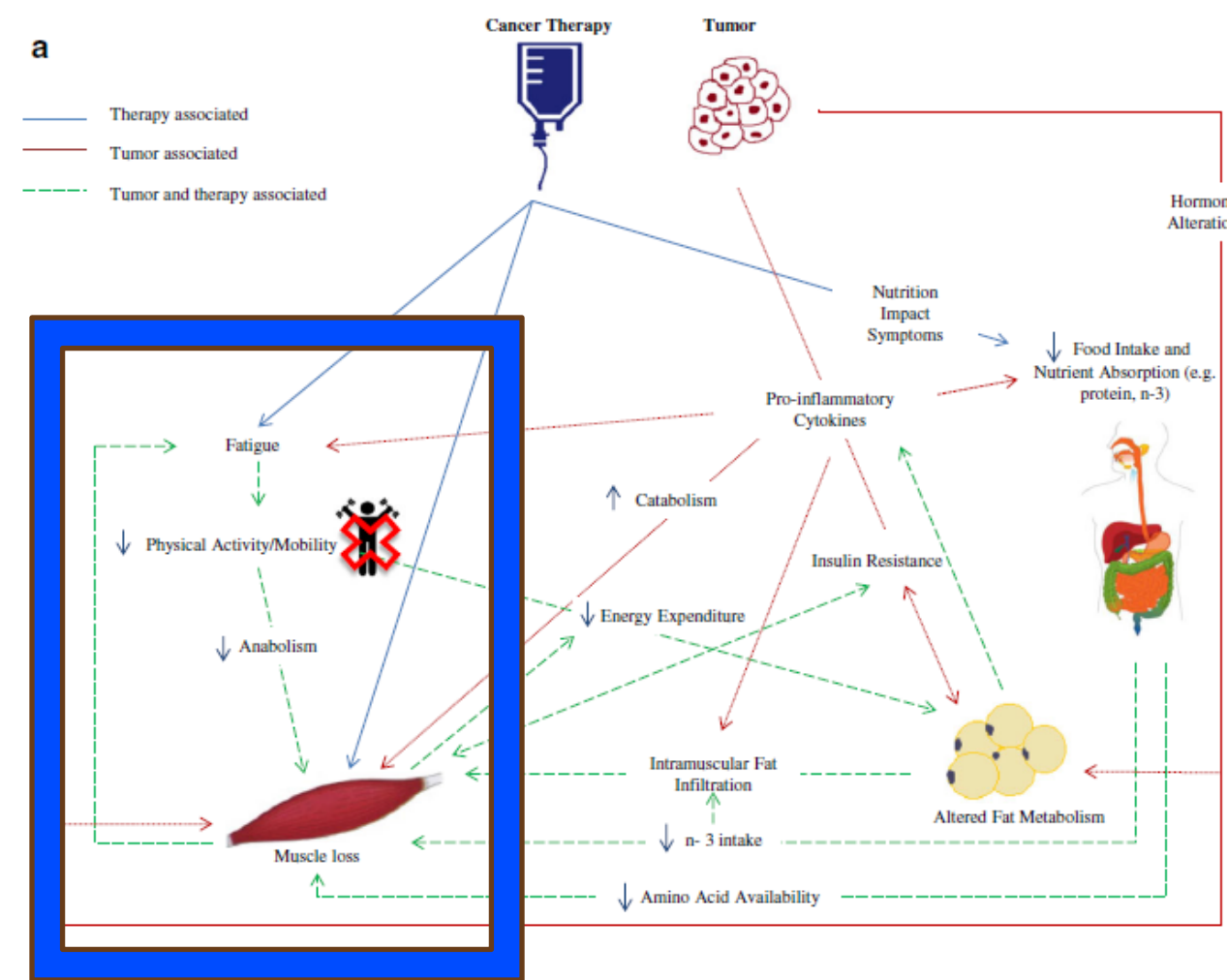
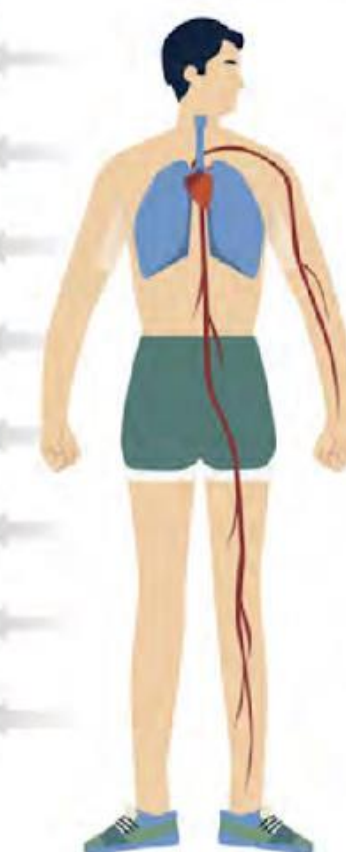
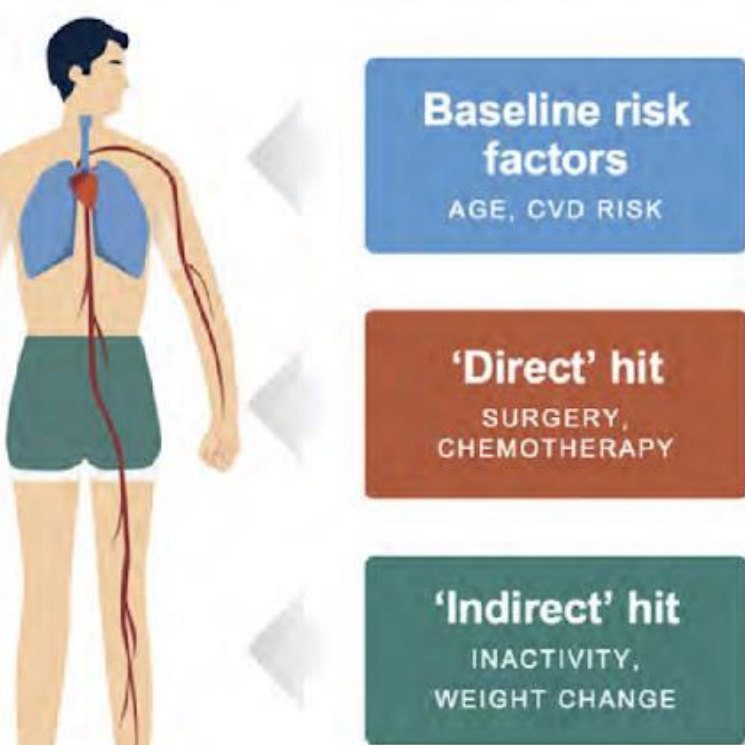
## ASTRONAUT MULTIPLE HITS



## AGING PHENOTYPES

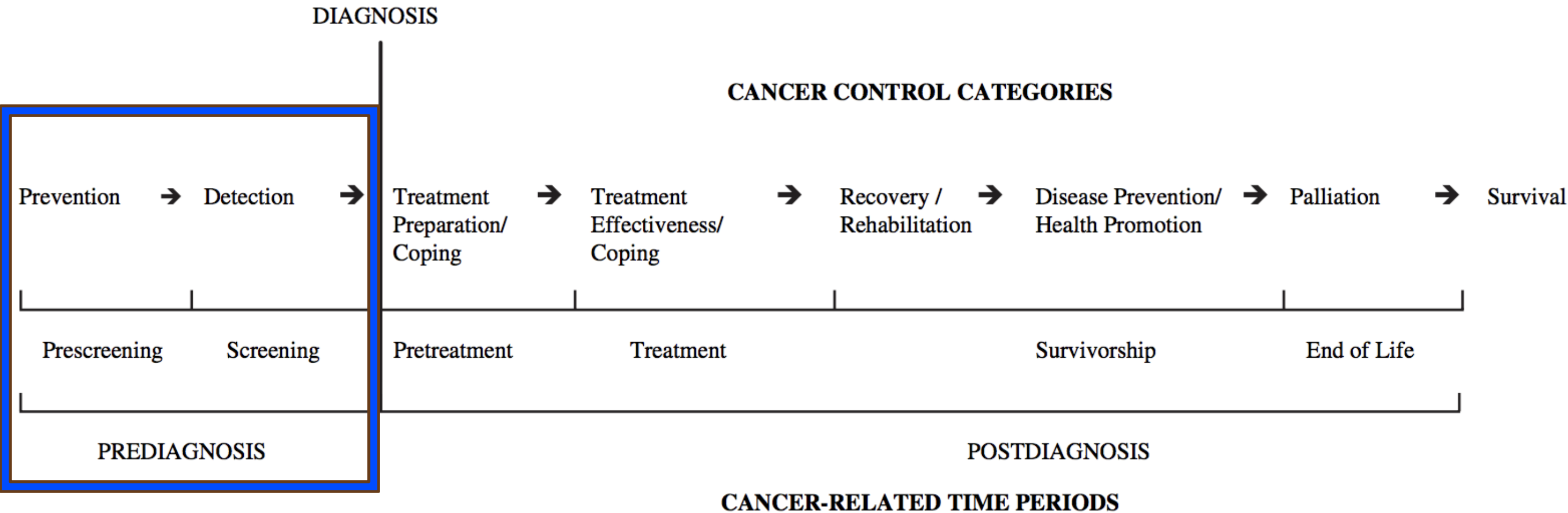


## CANCER PATIENT MULTIPLE HITS





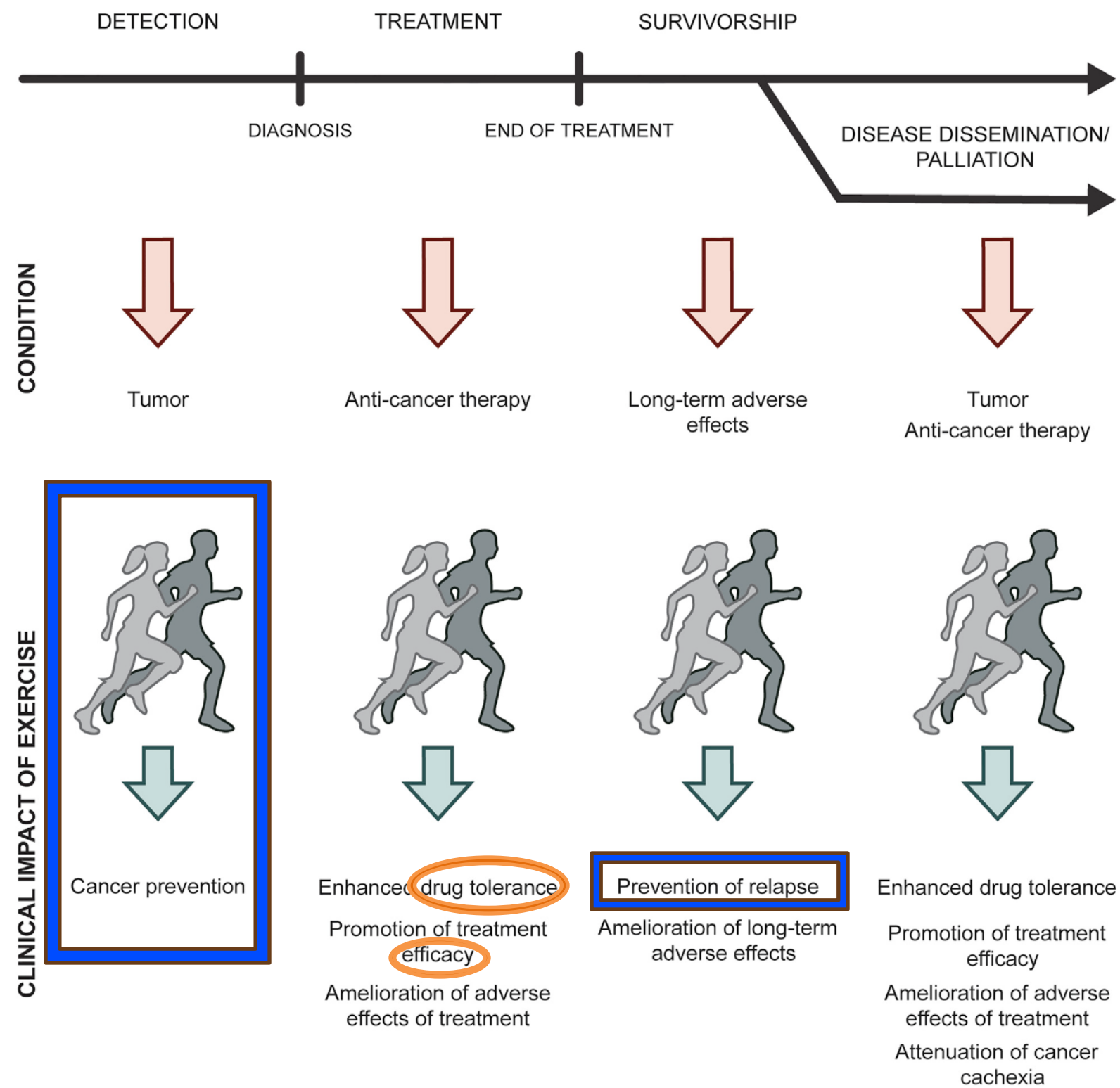
# INTRODUCTION



**FIGURE 1. Physical activity and cancer control framework.**



# INTRODUCTION

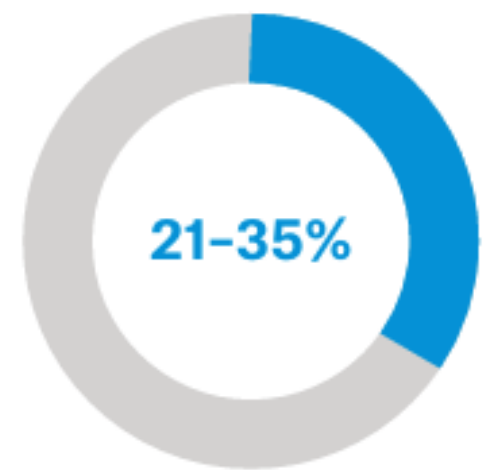




# INTRODUCTION

Exercise observed to reduce the relative risk of:

## CANCER RECURRENCE



Hazard ratios from meta-analysis studies range from 0.79 [0.63–0.98] (n = 21,647) to 0.65 [0.56–0.75] (n = 38,560)

## CANCER MORTALITY



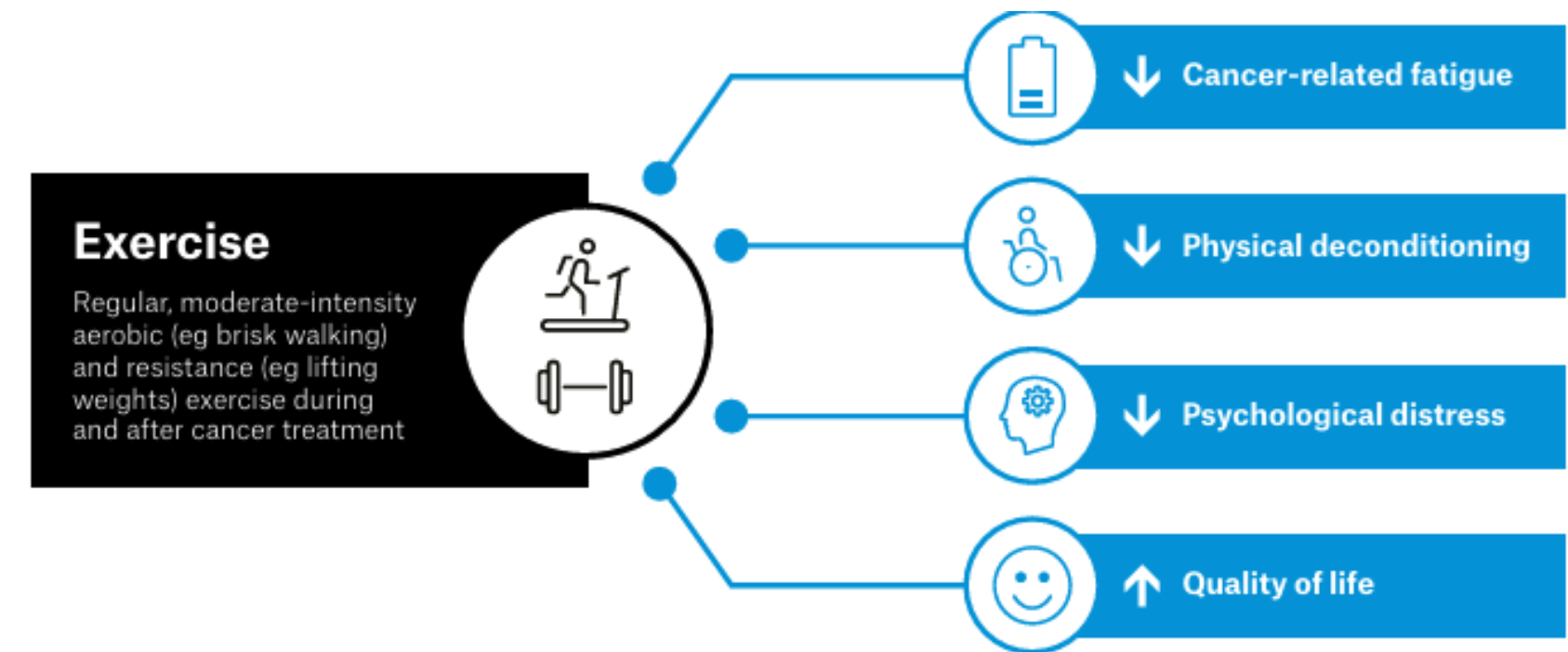
Hazard ratios from meta-analysis studies range from 0.72 [0.60–0.85] (n = 21,382) to 0.56 [0.38–0.83] (n = 10,470)

## ALL-CAUSE MORTALITY



Hazard ratios from meta-analysis studies range from 0.75 [0.62–0.87] (n = 2379) to 0.52 [0.43–0.64] (n = 21,647)

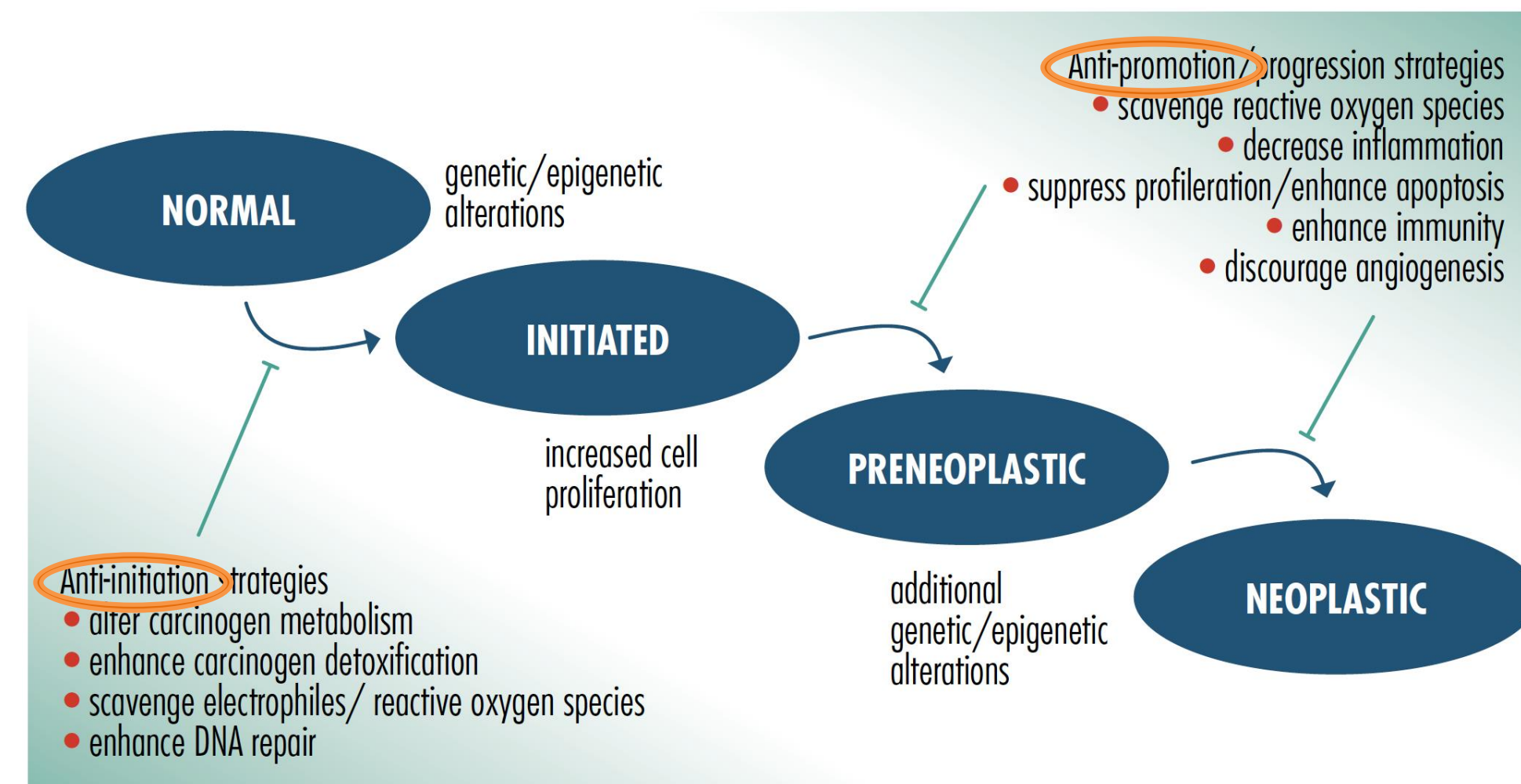
**Figure 2.** Exercise confers a protective effect against cancer recurrence, cancer-specific mortality and all-cause mortality in some cancers (data arises from studies involving predominately patients with breast, colorectal and prostate cancer).<sup>3</sup>



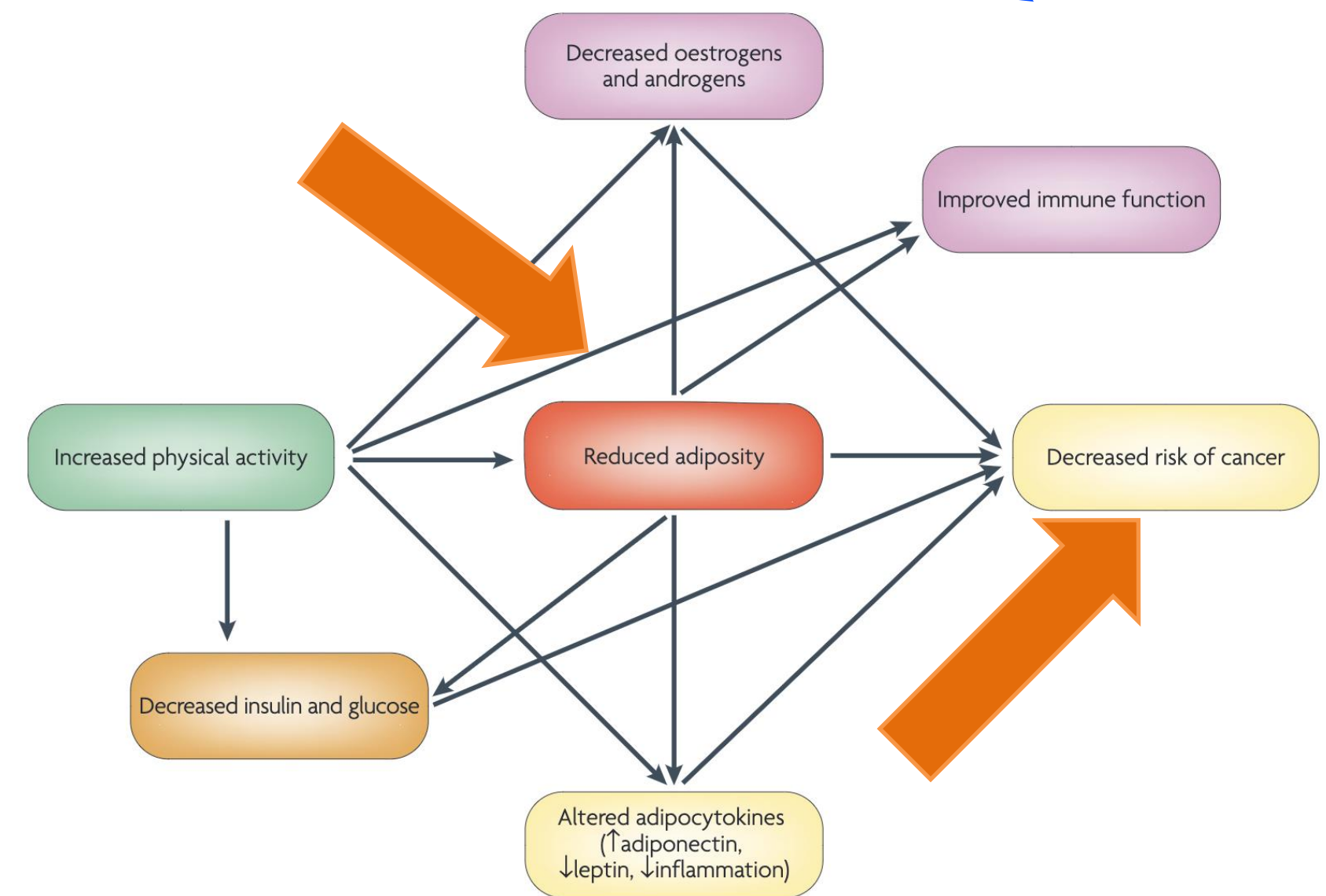
**Figure 1.** Exercise effectively counteracts the most common side effects of cancer and its treatment.<sup>3-16</sup>



# PREVENTION



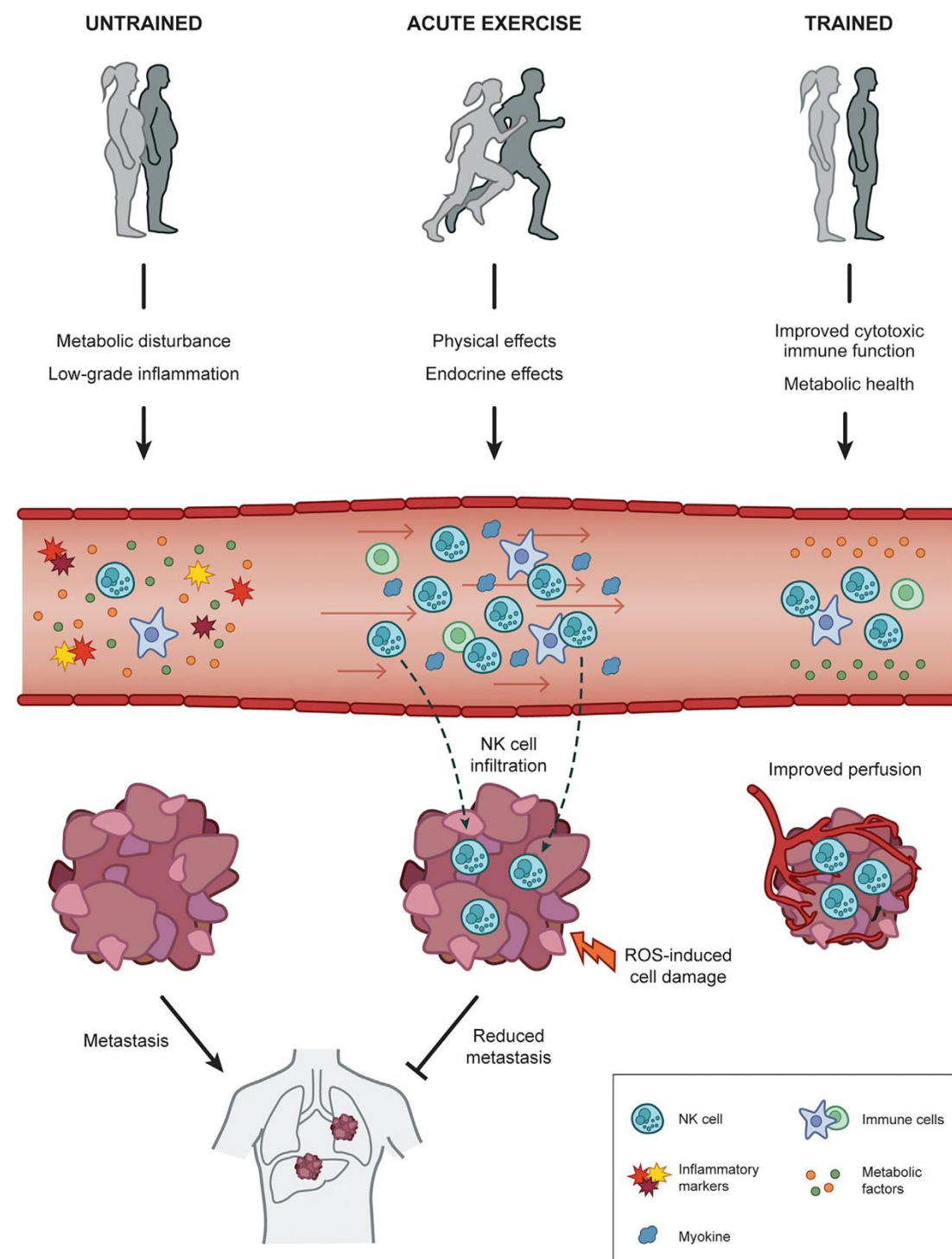
Rogers et al., Sports Med, 2008



Nature Reviews Cancer, 2008



# PREVENTION



molecular mechanisms:

- ACUTE effects
  - ➔ signaling pathways prevent metastasis
- CHRONIC training adaptations
  - ➔ systemic alterations
  - ➔ intratumoral changes



# POSITION STATEMENT 2023

JCR

## THE ROLE OF PHYSIOTHERAPY IN CANCER CARE IN THE EUROPE REGION: A POSITION PAPER OF THE CANCER WORKING GROUP OF EUROPE REGION WORLD PHYSIOTHERAPY

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### ABSTRACT

#### Background

Physiotherapists have strong knowledge and skills to deal with many of the functional problems that result from cancer treatment. The role of physiotherapy spans from cancer prevention to palliative and end of life care. Physiotherapeutic interventions offer a solution for many of the impairments experienced by patients living with and beyond cancer such as declines in physical function and quality of life. Specialized physiotherapeutic interventions can manage complex cancer-related side effects. The aim of this position paper is to outline the role of physiotherapy in the cancer journey.

#### Material and methods

The research was performed by eleven physiotherapy experts in oncology between May and October 2021 by using PubMed, PeDro and clinical guidelines databases. The search was divided according to the phases of the cancer journey: primary and secondary prevention, prehabilitation, during cancer treatment, post-treatment cancer rehabilitation, long-term rehabilitation of people living after cancer and advanced cancer. The role of physiotherapy is described and statements for each phase are developed. The final text was reviewed by three external reviewers, who provided feedback to improve the final version.

#### Results

Ten statements were developed by the authors, including general statements and statements for the different phases of the cancer journey. An infographic compiles all the statements providing a general and graphic vision of the role of physiotherapy in cancer care, based on the evidence.

#### Conclusions

Physiotherapists play an increasingly important role in the multidisciplinary care of cancer survivors. Many oncology physiotherapists have skills that can help to manage cancer-related impairments such as lymphedema, functional decline and cancer-related fatigue. Physiotherapists have strong knowledge and skills to deal with many of the functional problems that result from cancer treatment.

Rehabilitation services, including physiotherapy, should be integrated at the point of diagnosis to assess an individual's baseline functional performance status and inform about the cancer care plan.

### KEY WORDS

CANCER, ONCOLOGY, PHYSIOTHERAPY, EXERCISE-ONCOLOGY, REHABILITATION, PREHABILITATION

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### KEY WORDS

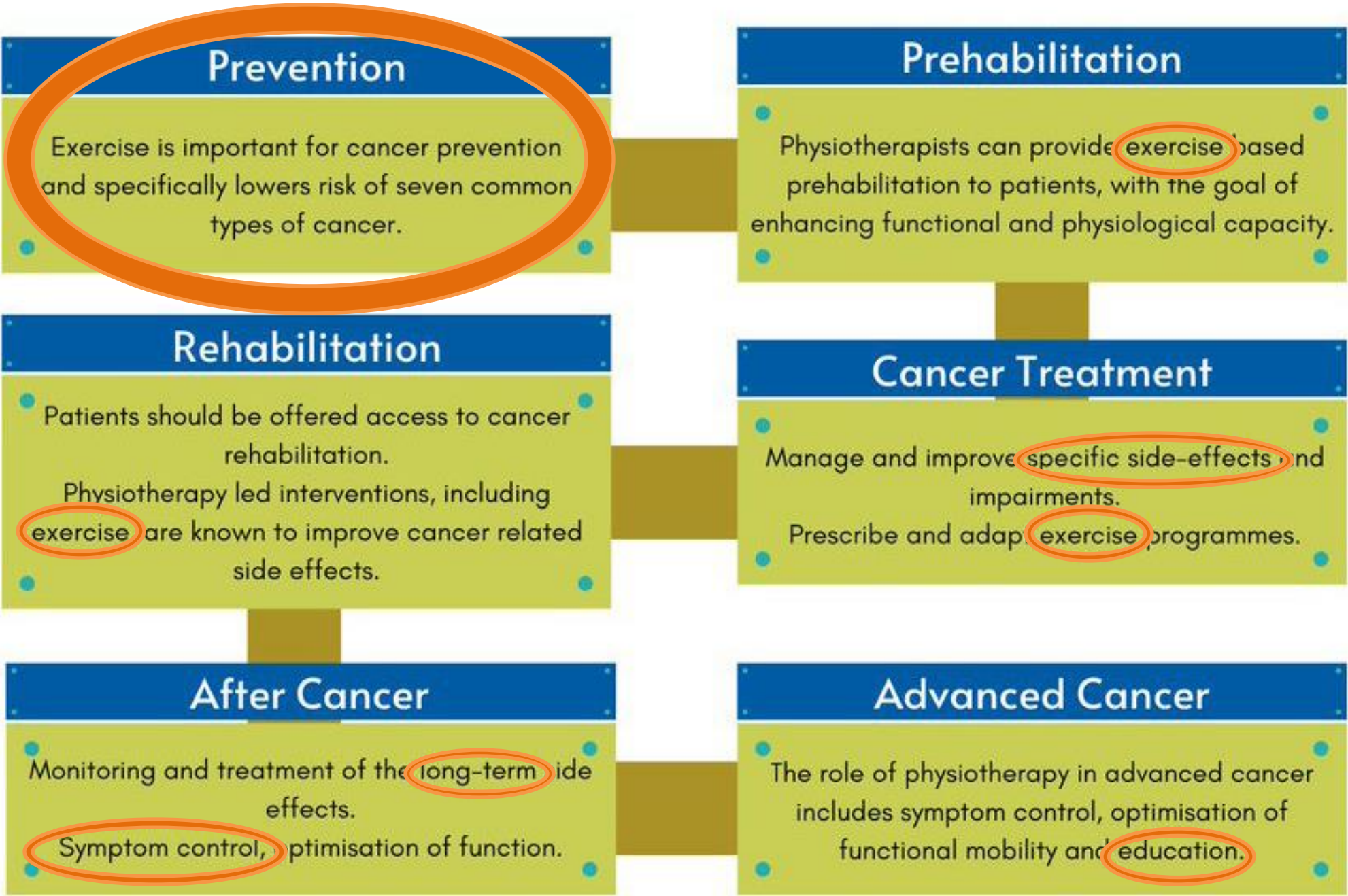
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Cancer Related  
Fatigue



How do you assess fatigue?



Fatigue is a symptom that can coincide with other symptoms such as disturbed sleep, anxiety, depression, pain and cognitive issues. If your patient scores a high level of fatigue, they should have these issues mapped as outlined in the ESMO guidelines. Scan the QR code to access the ESMO guidelines.



How can fatigue be treated?



General activity

Patients with cancer should be encouraged to be physically active as recommended for all adults.

Physical exercise

- **Phase of treatment:** during and after cancer treatments
- **Type:** supervised aerobic and resistance exercise and their combination.
- **Intensity:** moderate to vigorous
- **Frequency:** 2 to 3 times per week
- **Time or duration:** 30 minutes or more and with 12 weeks or more of program duration.



Patient education

It is important to provide information and advice to cancer patients and caregivers about cancer-related fatigue, its prevention and management. Evidence has shown that for patients with cancer, there is a positive effect on fatigue and QoL with self-management education.



15/04/2023



What is Cancer  
Related fatigue?

Is a subjective  
multidimensional experience  
considered the most frequent  
symptom related with cancer,  
that may appear at diagnosis  
and usually increases during  
the course of treatment.

Symptoms

Persistent or recurrent feeling of lack of energy and exhaustion on physical, emotional and/or cognitive domains not proportional to recent activity that interferes with functioning and overall quality of life.

Etiology

Its etiology is not clear but it has been described:

- **Predisposing factors:** comorbidities, biological sex, genetic, body composition, cancer treatments, depression history.
- **Precipitating factors:** metabolic dysregulation, systemic chronic inflammation, accelerated cells aging.
- **Perpetuating factors:** modifiable lifestyle behaviors such as dietary pattern, physical activity level.

Cancer-Associated  
Secondary  
Lymphedema



? What is Cancer-Associated  
Secondary Lymphedema?

It is a frequent side effect of cancer and its treatments, as a result of mechanical damage to the lymphatic system (e.g. surgery and radiotherapy), creating insufficiency and impaired lymph transport, or as a result of physiological changes (e.g. capillary leakage due to taxane-based chemotherapy), producing excess extracellular fluid and proteins in the interstitial space, which leads to swelling of the affected body part and chronic inflammation. The proteins are hydrophilic and when they do not get removed from the interstitial space, they attract more fluid to the interstitial space, worsening swelling.



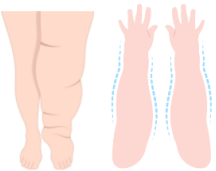
Risk Factors

- BMI > 25 kg/m2
- High number/ratio of lymph nodes dissected
- Infection
- Extent of surgery (iatrogenic damage)
- Combination of surgery with both chemotherapy and radiotherapy.

How Physiotherapists Evaluate Lymphedema?

VOLUMETRICS

- Water displacement method
- Perimetrics
- Opto-electronic volumetrics



SEGMENTAL BODY COMPOSITION

- Bioimpedance analysis/spectroscopy
- Tissue dielectric constant
- Medical imaging

How can Physiotherapy Prevent Lymphedema?



PATIENT EDUCATION



MANUAL LYMPHATIC  
DRAINAGE



PHYSICAL EXERCISE

How to Manage Lymphedema through Physiotherapy?

COMPREHENSIVE PHYSIOTHERAPY:

- Manual lymphatic drainage
- Compression therapy
- Skin and wound care
- Physical exercise



07/12/2023













# ACSM & KNGF GUIDELINES IN ONCOLOGY

## Effects of Exercise on Health-Related Outcomes in Those with Cancer

### What can exercise do?

- **Prevention of 7 common cancers\***  
Dose: 2018 Physical Activity Guidelines for Americans: 150-300 min/week moderate or 75-150 min/week vigorous aerobic exercise
  - **Survival of 3 common cancers\*\***  
Dose: Exact dose of physical activity needed to reduce cancers-specific or all-cause mortality is not yet known; Overall more activity appears to lead to better risk reduction
- \*bladder, breast, colon, endometrial, esophageal, kidney and stomach cancers  
\*\*breast, colon and prostate cancers

Overall, avoid inactivity, and to improve general health, aim to achieve the current physical activity guidelines for health (150 min/week aerobic exercise and 2x/week strength training).

Outcome	Aerobic Only	Resistance Only	Combination (Aerobic + Resistance)
<b>Strong Evidence</b>	Dose	Dose	Dose
 <b>Cancer-related fatigue</b>	3x/week for 30 min per session of moderate intensity	2x/week of 2 sets of 12-15 reps for major muscle groups at moderate intensity	3x/week for 30 min per session of moderate aerobic exercise, plus 2x/week of resistance training 2 sets of 12-15 reps for major muscle groups at moderate intensity
 <b>Health-related quality of life</b>	2-3x/week for 30-60 min per session of moderate to vigorous	2x/week of 2 sets of 8-15 reps for major muscle groups at a moderate to vigorous intensity	2-3x/week for 20-30 min per session of moderate aerobic exercise plus 2x/week of resistance training 2 sets of 8-15 reps for major muscle groups at moderate to vigorous intensity
 <b>Physical Function</b>	3x/week for 30-60 min per session of moderate to vigorous	2-3x/week of 2 sets of 8-12 reps for major muscle groups at moderate to vigorous intensity	3x/week for 20-40 min per session of moderate to vigorous aerobic exercise, plus 2-3x/week of resistance training 2 sets of 8-12 reps for major muscle group at moderate to vigorous intensity
 <b>Anxiety</b>	3x/week for 30-60 min per session of moderate to vigorous	Insufficient evidence	2-3x/week for 20-40 min of moderate to vigorous aerobic exercise plus 2x/week of resistance training of 2 sets, 8-12 reps for major muscle groups at moderate to vigorous intensity
 <b>Depression</b>	3x/week for 30-60 min per session of moderate to vigorous	Insufficient evidence	2-3x/week for 20-40 min of moderate to vigorous aerobic exercise plus 2x/week of resistance training of 2 sets, 8-12 reps for major muscle groups at moderate to vigorous intensity
 <b>Lymphedema</b>	Insufficient evidence	2-3x/week of progressive, supervised, program for major muscle groups does not exacerbate lymphedema	Insufficient evidence
<b>Moderate Evidence</b>			
 <b>Bone health</b>	Insufficient evidence	2-3x/week of moderate to vigorous resistance training plus high impact training (sufficient to generate ground reaction force of 3-4 time body weight) for at least 12 months	Insufficient evidence
 <b>Sleep</b>	3-4x/week for 30-40 min per session of moderate intensity	Insufficient evidence	Insufficient evidence

Citation: [bit.ly/cancer\\_exercise\\_guidelines](https://bit.ly/cancer_exercise_guidelines)

Moderate intensity (40%-59% heart rate reserve or VO<sub>2</sub>R) to vigorous intensity (60%-89% heart rate reserve or VO<sub>2</sub>R) is recommended.



## KNGF Guideline on Oncology

Edited by:  
Dr M.G. Sweegers; M.C.M. van Doormaal, MSc; D. Conijn, MSc; Dr M.M. Stuiver



# IMPLEMENTATION: MOVING THROUGH CANCER



## Timeline for Major Goals of the Moving Through Cancer Initiative

2020	<ul style="list-style-type: none"><li>Development of a service-costing template for all programs to be made freely available on the Moving Through Cancer website (<a href="https://exerciseismedicine.org/movingthroughcancer">exerciseismedicine.org/movingthroughcancer</a>)</li><li>Develop marketing materials for an awareness campaign for exercise oncology directed toward patients, caregivers, and health care professionals</li><li>Assess availability of cancer exercise and rehabilitation programming across the United States</li></ul>
2021	<ul style="list-style-type: none"><li>Carry out awareness campaign for exercise oncology</li><li>Assess current landscape of the available exercise oncology workforce in the United States</li><li>Conduct a review of the policy landscape that affects exercise and rehabilitation within the setting of oncology</li><li>Identify 2 national brand gyms to take on training of staff to work with individuals living with and beyond cancer</li></ul>
2022	<ul style="list-style-type: none"><li>Approximately 25% of patients who are newly diagnosed with cancer will recall being advised to exercise by their oncologist</li><li>Measure improvement in level of knowledge as well as level of engagement among patients and oncology providers</li></ul>
2023	<ul style="list-style-type: none"><li>Develop a policy action plan for exercise oncology</li><li>Host an influencer conference of researchers and oncology providers to align agendas and determine how to leverage the strengths of each organizational and individual partner toward the goal of coordinated, forward progress</li></ul>
2024	<ul style="list-style-type: none"><li>Create and disseminate training for health professionals to teach the value of exercise, knowledge of where to refer, and use of pathways to make an appropriate (supervised/unsupervised) referral</li></ul>
2025	<ul style="list-style-type: none"><li>Approximately 80% of exercise and rehabilitation professionals will have specialized training to work with individuals living with and beyond cancer</li><li>Ensure that there is at least 1 cancer exercise or rehabilitation program in each city in the United States with a population of 50,000</li></ul>

Schmitz et al.



### HHS Public Access

Author manuscript  
*Cancer*. Author manuscript; available in PMC 2022 February 01.

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### Moving Through Cancer: Setting the agenda to make exercise standard in oncology practice

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# CANCER PHYSIOTHERAPY: SURVEY 2023

## aim

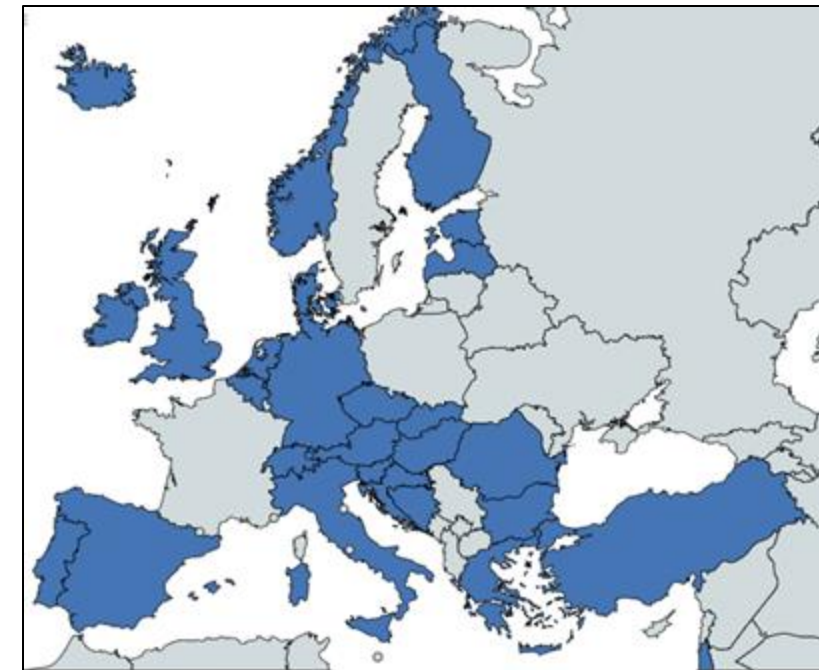
To collect information from physiotherapy Member Organisations (MOs) regarding **cancer physiotherapy services** and **education** in the **Europe region**.

## methods

- **Online survey** instrument, developed by the Cancer Working Group for this purpose.
- Email to all **37 MOs** in Europe.

## results

- Response rate = **89%** (n = 33/37)





# SURVEY PART I: SERVICE AVAILABILITY

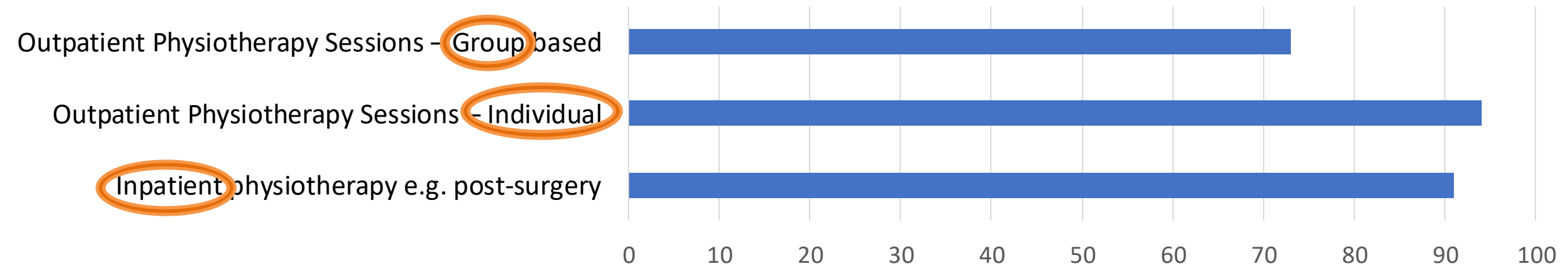
## 100% provide services to people with cancer

- as standard care in the **public health** system (55%, n=18)
- as **private** services (36%, n=12)
- through cancer **support centres** or **charities** (64%, n=21)
- as part of **research** programmes (42%, n=14)

## self-referral to physiotherapy

- Only 36% (n = 12) of respondents reported patients could **self-refer**

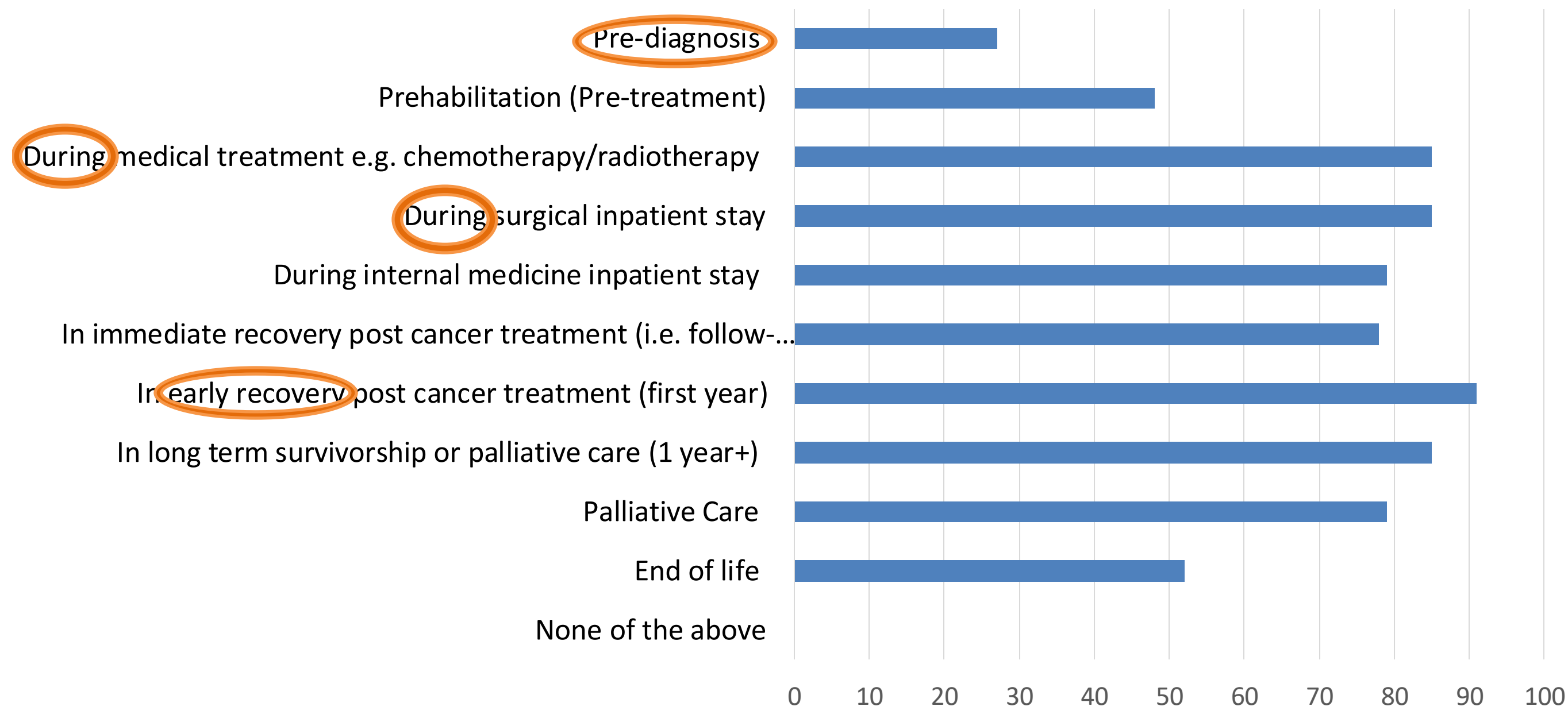
## how cancer care is delivered





# SURVEY PART I: SERVICE AVAILABILITY

## timing of physiotherapy services within the cancer continuum





# SURVEY PART I: SERVICE AVAILABILITY

## re-imburement

- Patients can claim for re-imburement of **all** costs spent on physiotherapy cancer care. (**36%**, n = 12)
- Patients can claim for **some** physiotherapy services. (**36%**, n = 12)

## barriers to developing services

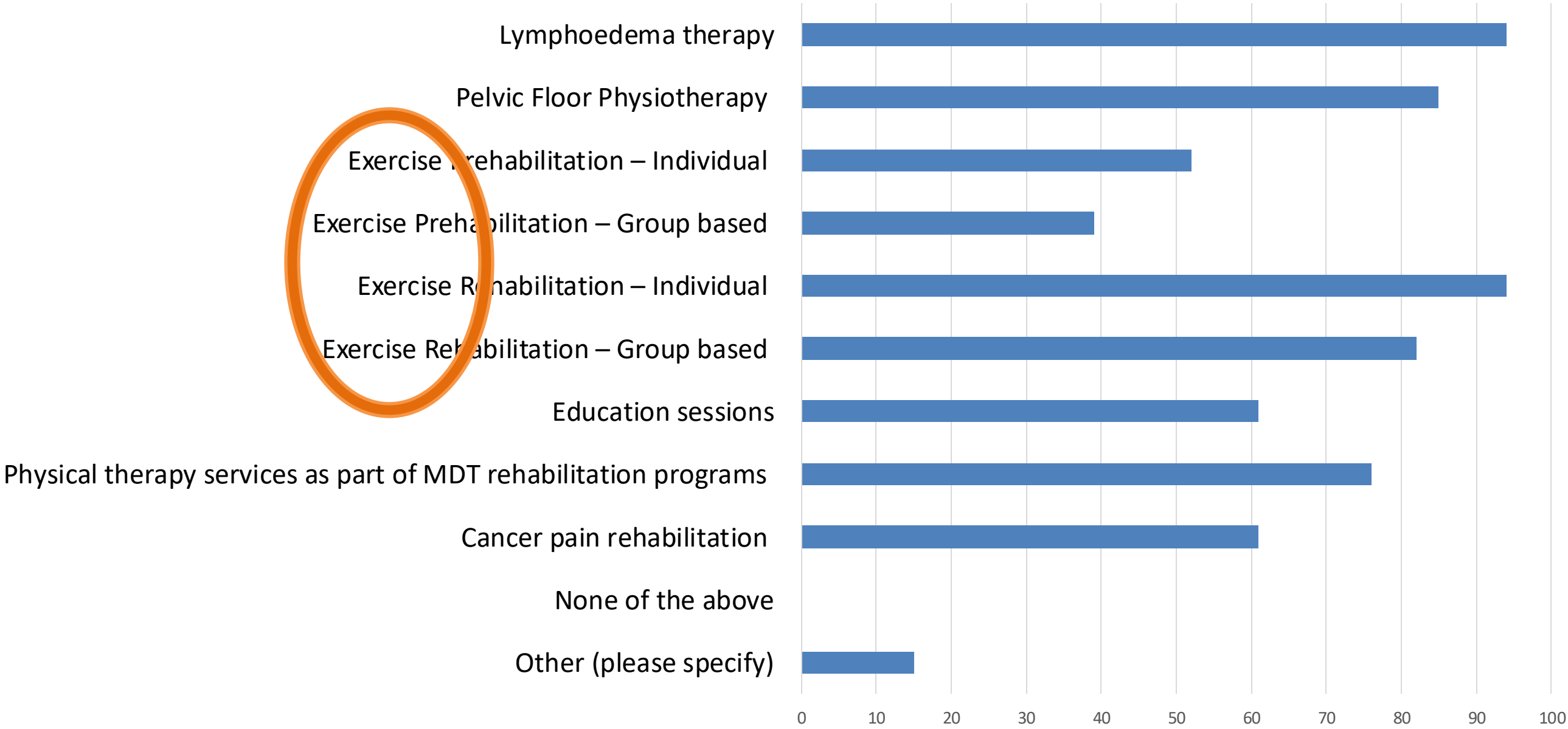
- A lack of **knowledge/understanding** of the role of physiotherapy in the area of cancer care (**73%**, n = 24)
- A lack of **funding** for services (**70%**, n = 23).
- A lack of **resources** for services (**70%**, n = 23).
- A lack of **demand** for services from people with cancer (**24%**, n = 8).

**Additional barriers** included a lack of referrals, lack of clinical pathways, difficulty changing clinical practice, political barriers and lack of support from doctors.



# SURVEY PART II: CANCER PT SERVICES

## description of cancer physiotherapy services





# SURVEY PART III: CANCER PT EDUCATION

## oncology course/training included in PT education

- **45%** (n = 15) reported oncology is included in **undergraduate** training.
- **15%** (n = 5) reported oncology is included in **post-graduate** training.
- **15%** (n = 5) reported specific oncology training/courses are **not included** as part of physiotherapy education.
- **25%** (n = 8) other

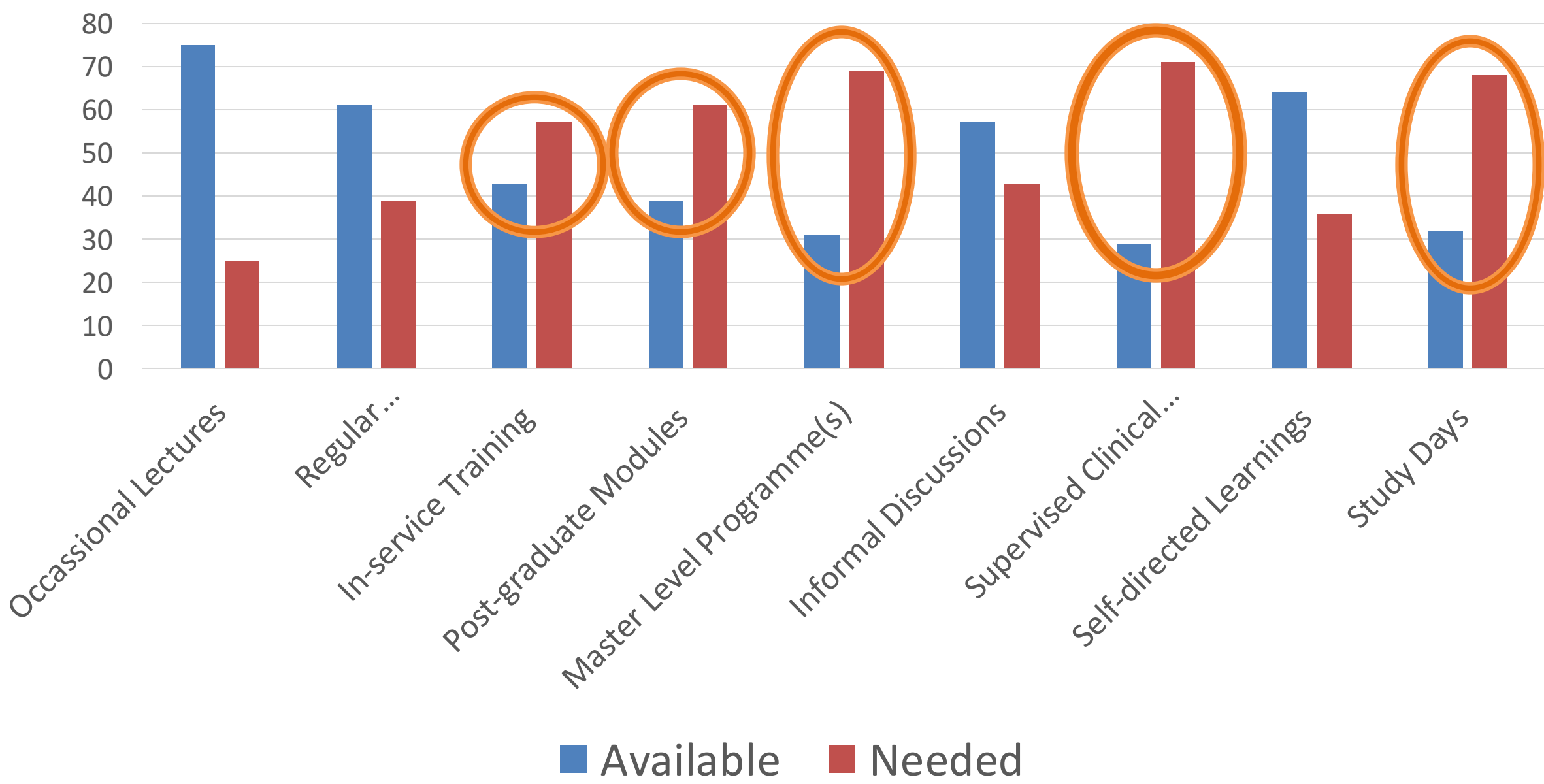
*“PT have the required skills to treat patients across the cancer care continuum in my country.”*

6,3/10



# SURVEY PART III: CANCER PT EDUCATION

continuous professional development in oncology available/needed in MOs





# SURVEY PART III: CANCER PT EDUCATION

## oncology specialist interest group

- ✓ **special interest group** in the area of oncology for PTs within the MOs: **62%** (n = 20)

## register of oncology physiotherapists

- ✓ a **register** of physiotherapists who have **recognised oncology** as their speciality = **27%** (n = 9)  
The requirements for recognition varied between MOs from a 3-year master's degree to general post-graduate CPD in oncology.
- ✓ One MO reported a register only for those practicing lymphoedema management.



# CANCER PHYSIOTHERAPY: SURVEY 2023

## CONCLUSION

- ✓ PT are **providing care to patients with cancer** throughout the Europe Region.
- ✓ There are **vast differences** within the region, and in some instances within countries, in the **level** of PT cancer care provided.
- ✓ There appears to be a **large reliance** on cancer **charities** and **research** to provide PT cancer care to patients.
- ✓ Respondents feel there is a **lack of understanding** of the **role of physiotherapy** in **cancer care**.
- ✓ PT **require professional development opportunities** in cancer care.





# THANK YOU!

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