



LILT | ASSOCIAZIONE PROVINCIALE DI BIELLA - ONLUS
Legge Italiana per la Lotta contro i Tumori
prevenire e vivere

AZIENDA SANITARIA LOCALE DI BIELLA

Progetto CHOICE:
l'esercizio fisico per pazienti oncologici

21 FEBBRAIO 2020
dalle ore 8,30 alle ore 13,00

SALA CONVEgni "ELVO TEMPIA"
NUOVO OSPEDALE DI BIELLA
Via Dei Ponderanesi 2 - Ponderano

Il modello FORCE: L'approccio Integrato al Paziente Oncologico



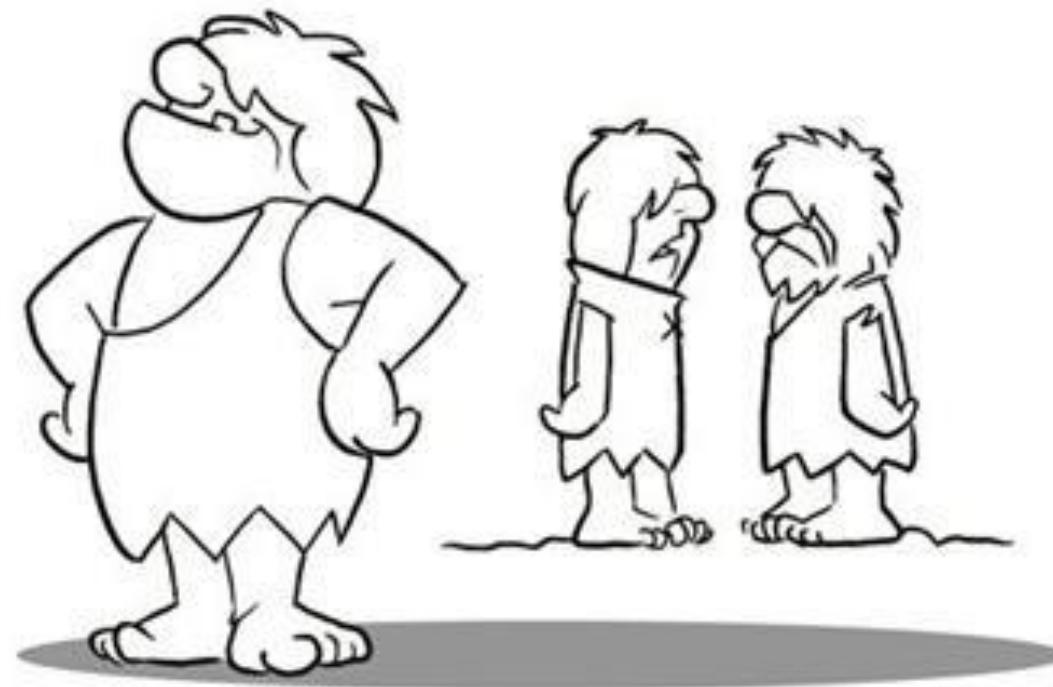
Sara Pilotto

Oncologia Medica, Dipart. di Medicina,
Università di Verona, A.O.U.I. Verona
sara.pilotto@univr.it

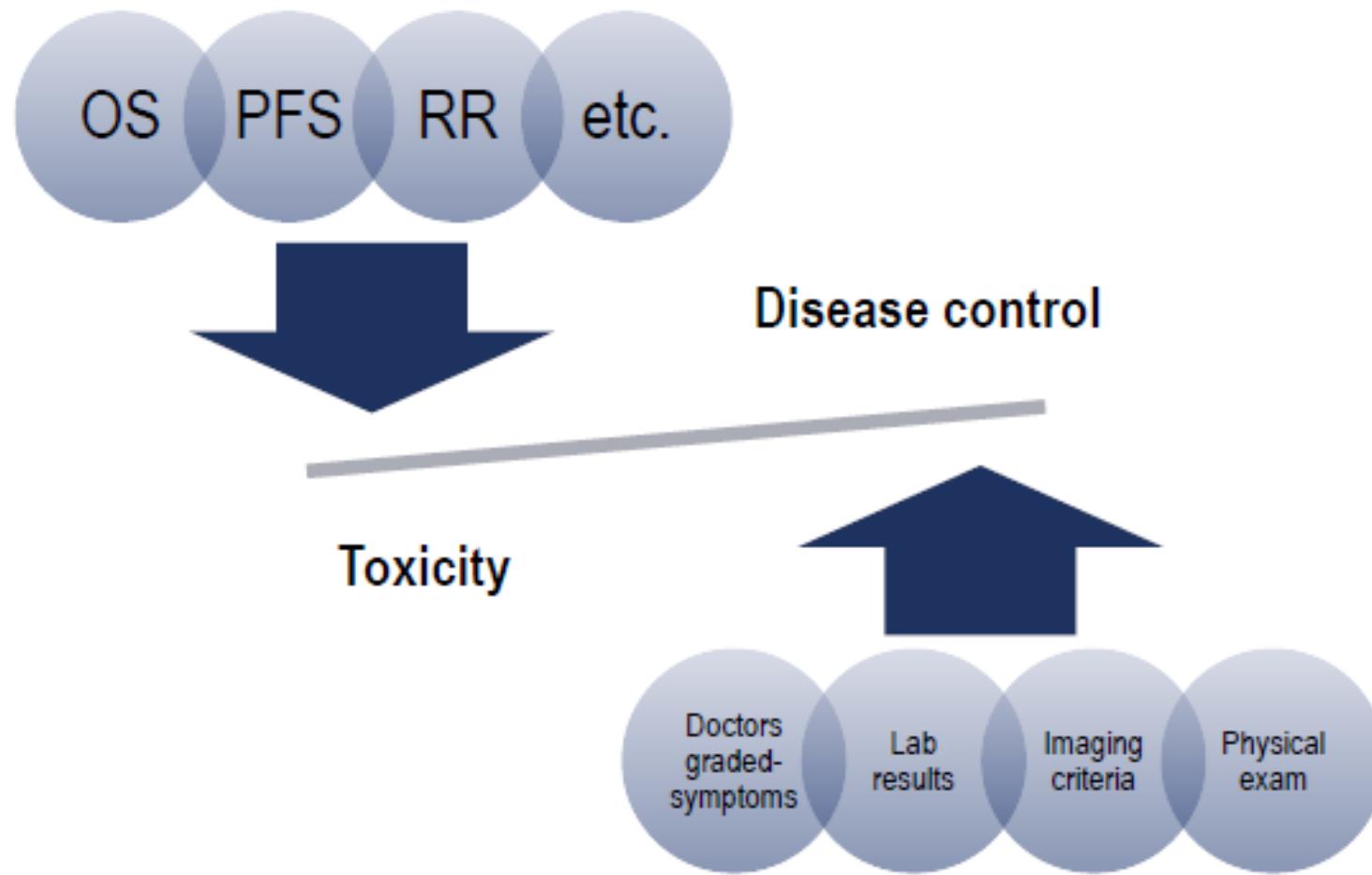


What's New???

- SI DA' UN SACCO DI ARIE PERCHE' E' STATO
IL PRIMO A SCOPRIRE L'ACQUA CALDA.



Treatment-related Decision-making process in cancer



Treatment Goals in Advanced Disease

When patients are **still fit**
for active treatment

- Symptom control
- Disease control
- Prolonged survival

When patients are **no longer fit**
for active treatment

- Best supportive and palliative care
- Treatment goals → Goals of care

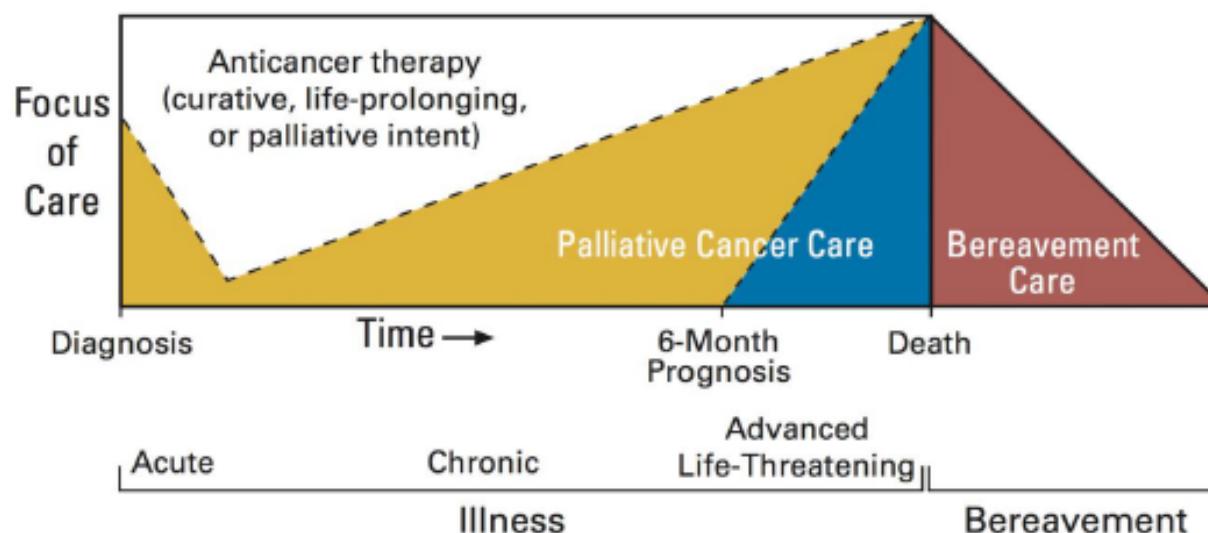
OVERALL GOAL

Best possible Quality of Life

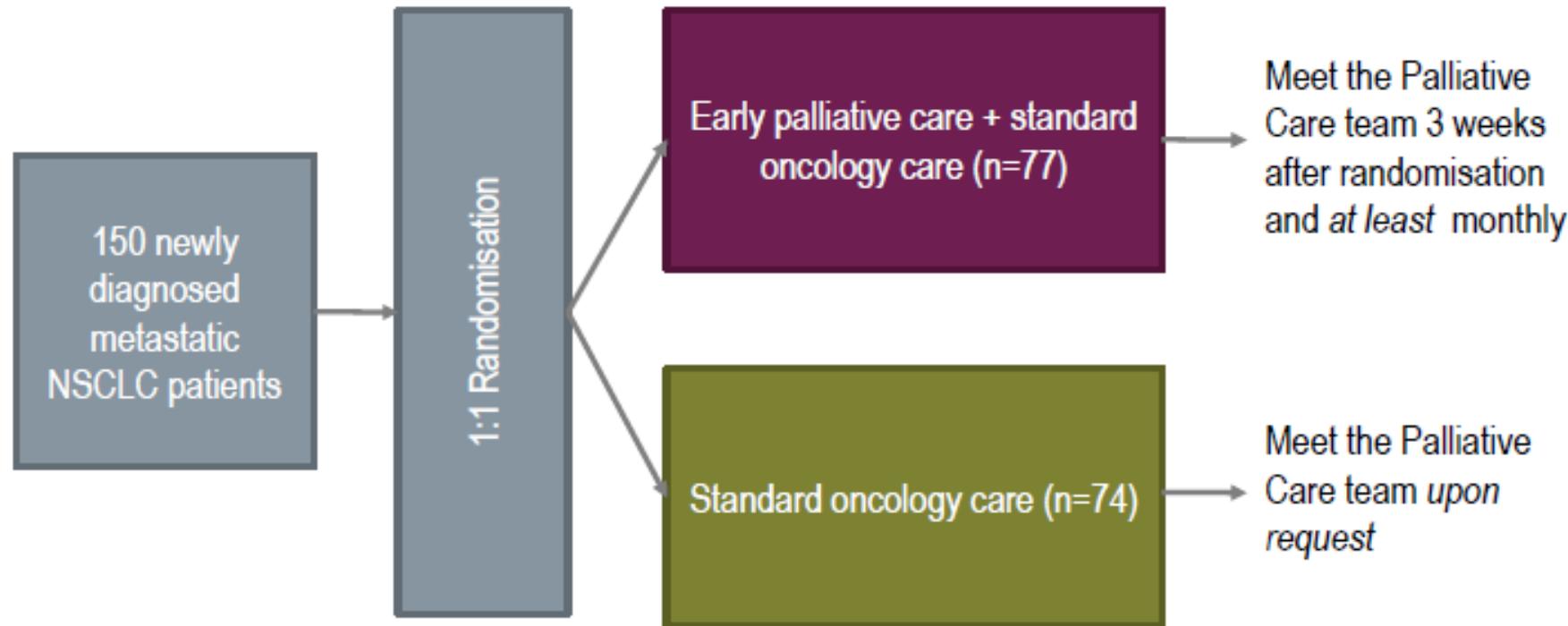
An integrate approach

ASCO statement (2009) and provisional opinion (2012)

“ (...) combined standard oncology care and palliative care should be considered early in the course of illness for any patient with metastatic cancer and/or high symptom burden.”



Benefit of early palliative care is REAL!



Primary endpoint: QoL

Secondary endpoint: overall survival, mood, use of healthcare services, aggressiveness in the EoL

Benefit of early palliative care is REAL!

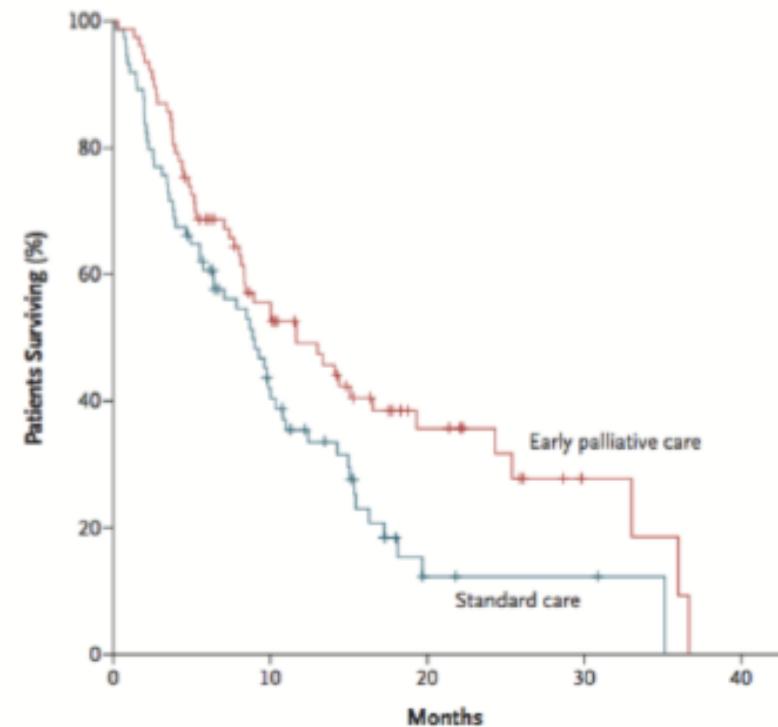
Study results:

Improved QoL in the intervention group for the total FACT-L scale, the LCS, and the Trial Outcome Index

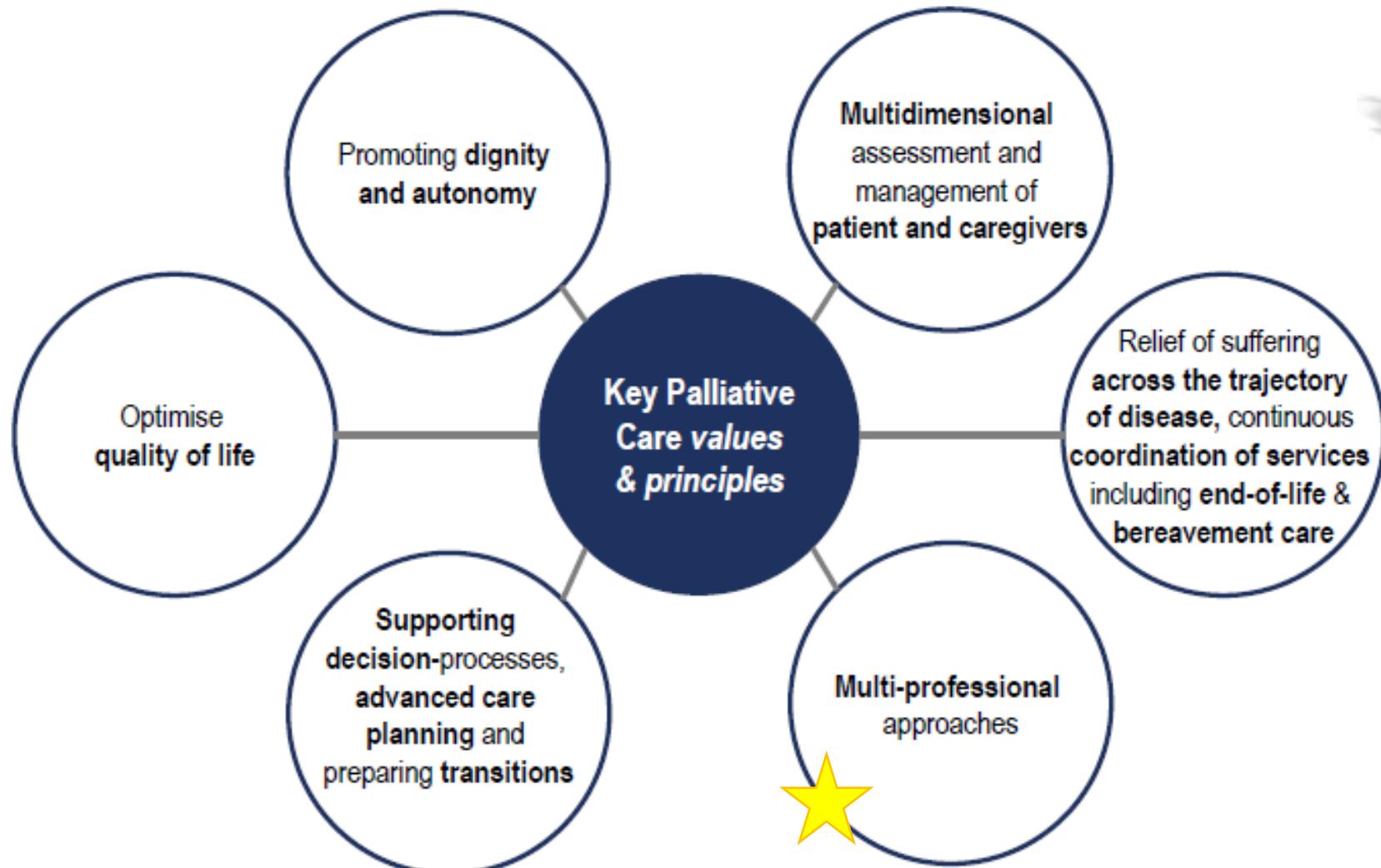
Lower depression scores in the intervention group measured by HADS and PHQ-9

More aggressive end-of-life care in the control group (54% vs. 33%, $p = 0.05$)

Less advanced care planning documentation in the control group (28% vs. 53%, $p = 0.05$)



Palliative Care: values & principles





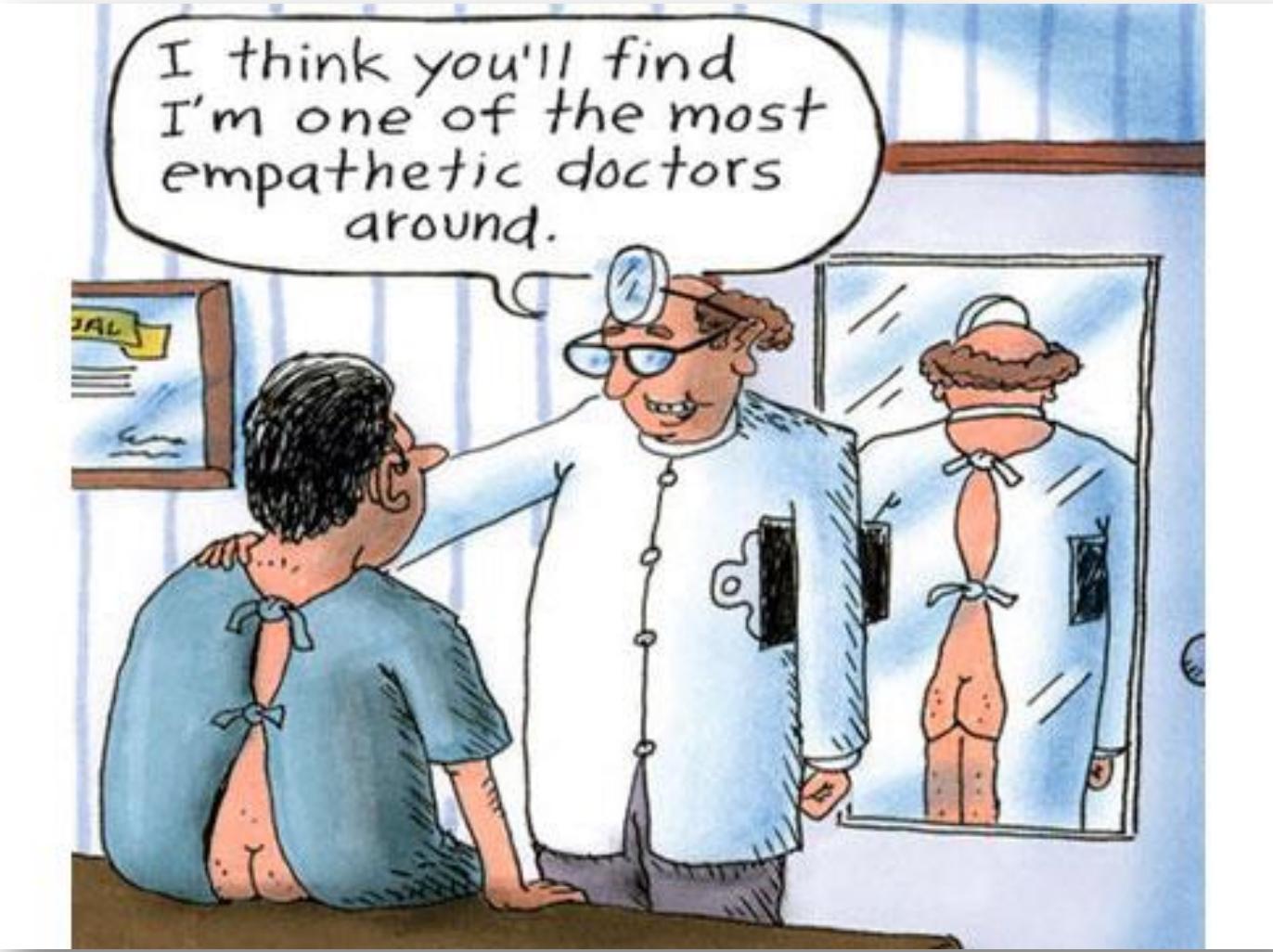
Focus On Research and CarE (FORCE)

Approccio di Presa in Carico Globale Integrata Evidence-based nel Paziente Oncologico



Oncologia Medica, Dipartimento di
Medicina, Università di Verona,
Azienda Ospedaliera Universitaria Integrata,
Verona

Filling the gap ... with our patients



Filling the gap ... with our colleagues



A Team taking care of the Person



Dietitian
(dr. Ilaria Trestini)
- Screening e nutritional assessment
- Nutritional Counseling



Oncologist
(dr. Sara Pilotto)
- Coordinator

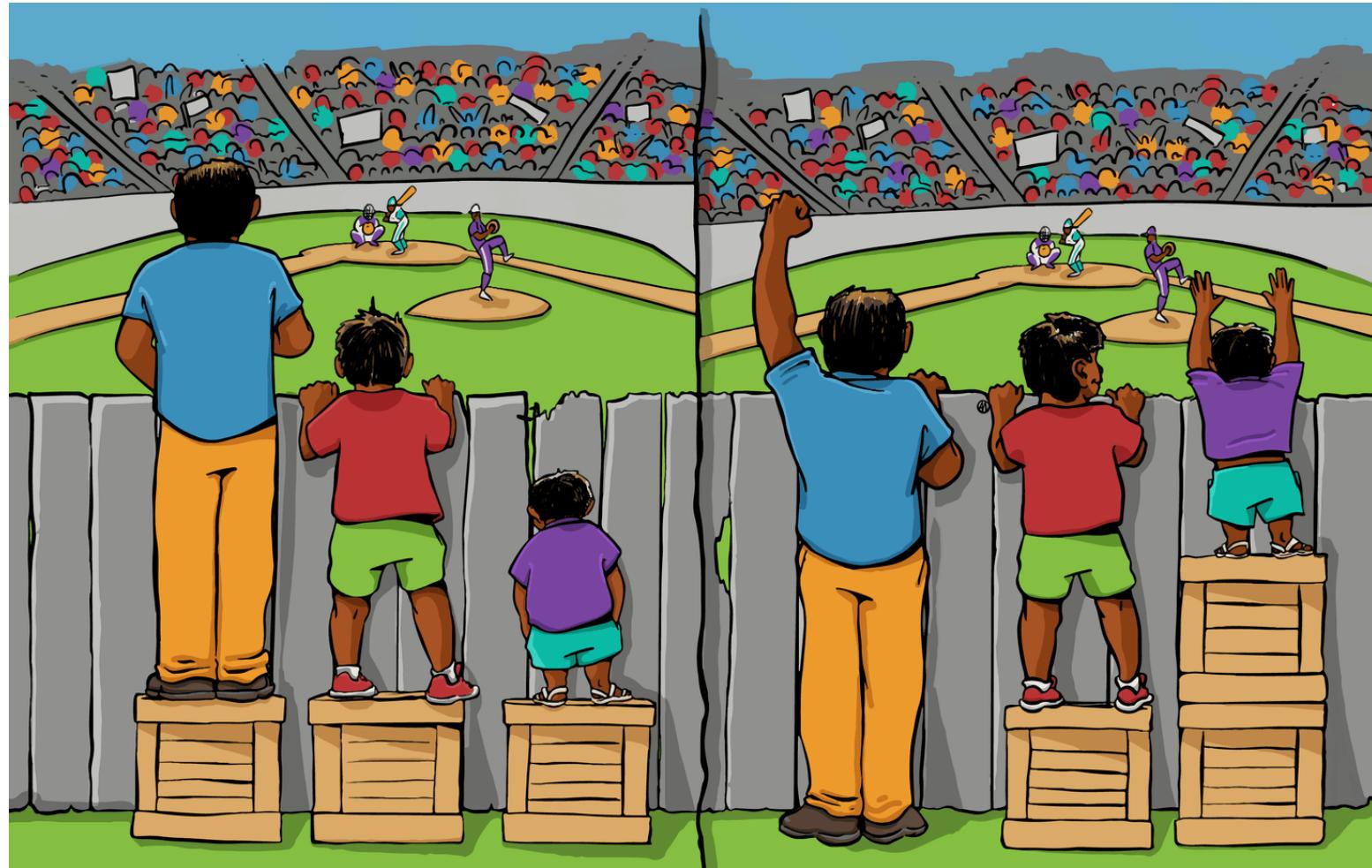


Psycho-oncologist
(dr. Daniela Tregnago)
- Psychological individual support



Kinesiologist
(dr. Alice Avancini)
- Adapted physical activity

... with a Personalized Approach



... with a Scientific Evidence-Based Approach



Give to our Patients the best
therapeutical approach

Create a model to be universally
implemented into the oncological
setting, but also for other chronic
complex disease

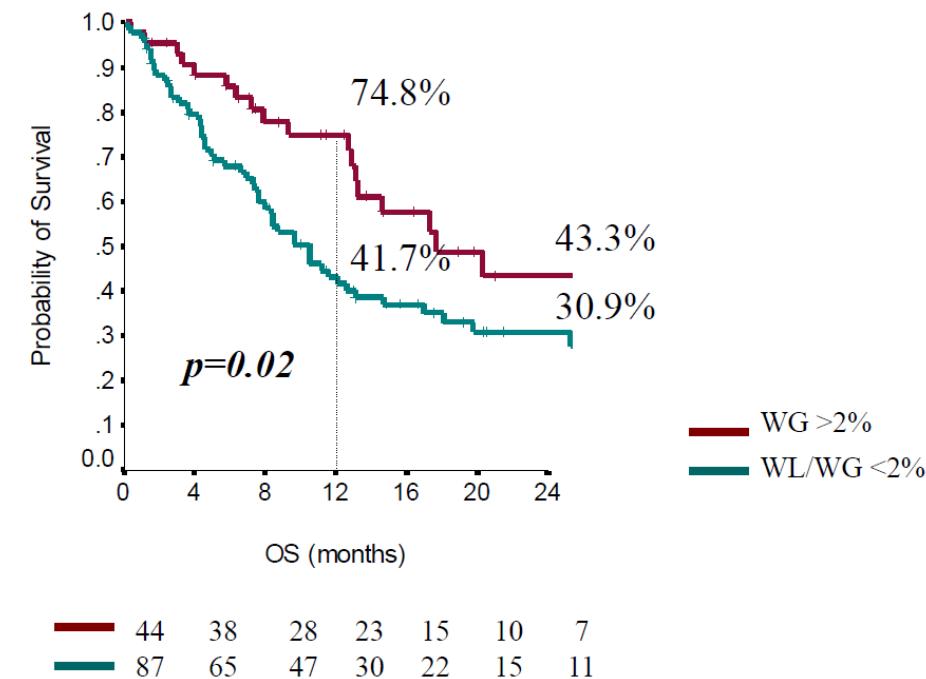
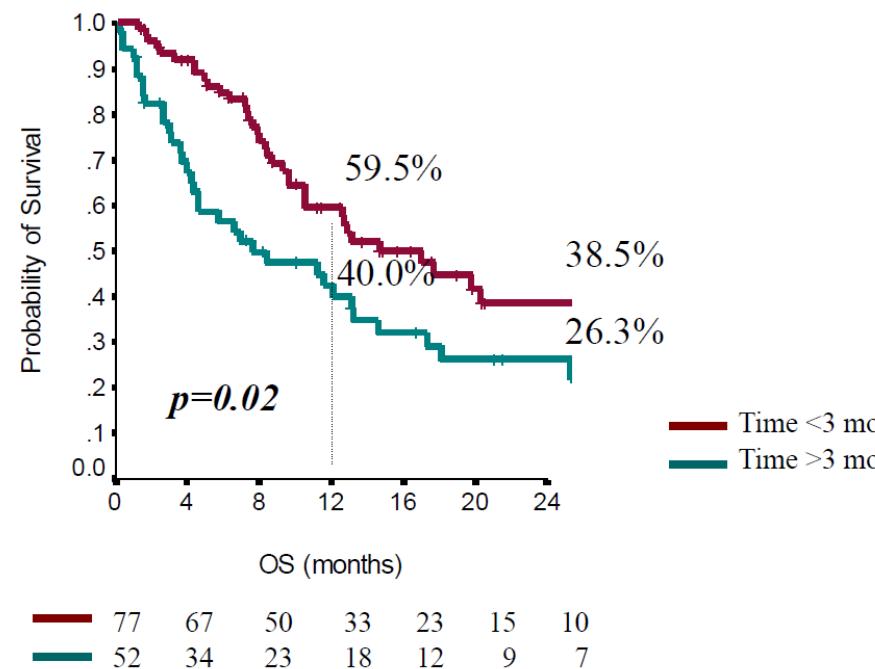
Provide new reliable scientific
evidences to increase the
currently available knowledge

A lot of hard work ..



Prognostic impact of early nutritional support in patients affected by locally advanced and metastatic pancreatic ductal adenocarcinoma undergoing chemotherapy.

Trestini I, Carbognin L, Sperduti I, Bonaiuto C, Auriemma A, Melisi D, Salvatore L, Bria E, Tortora G.

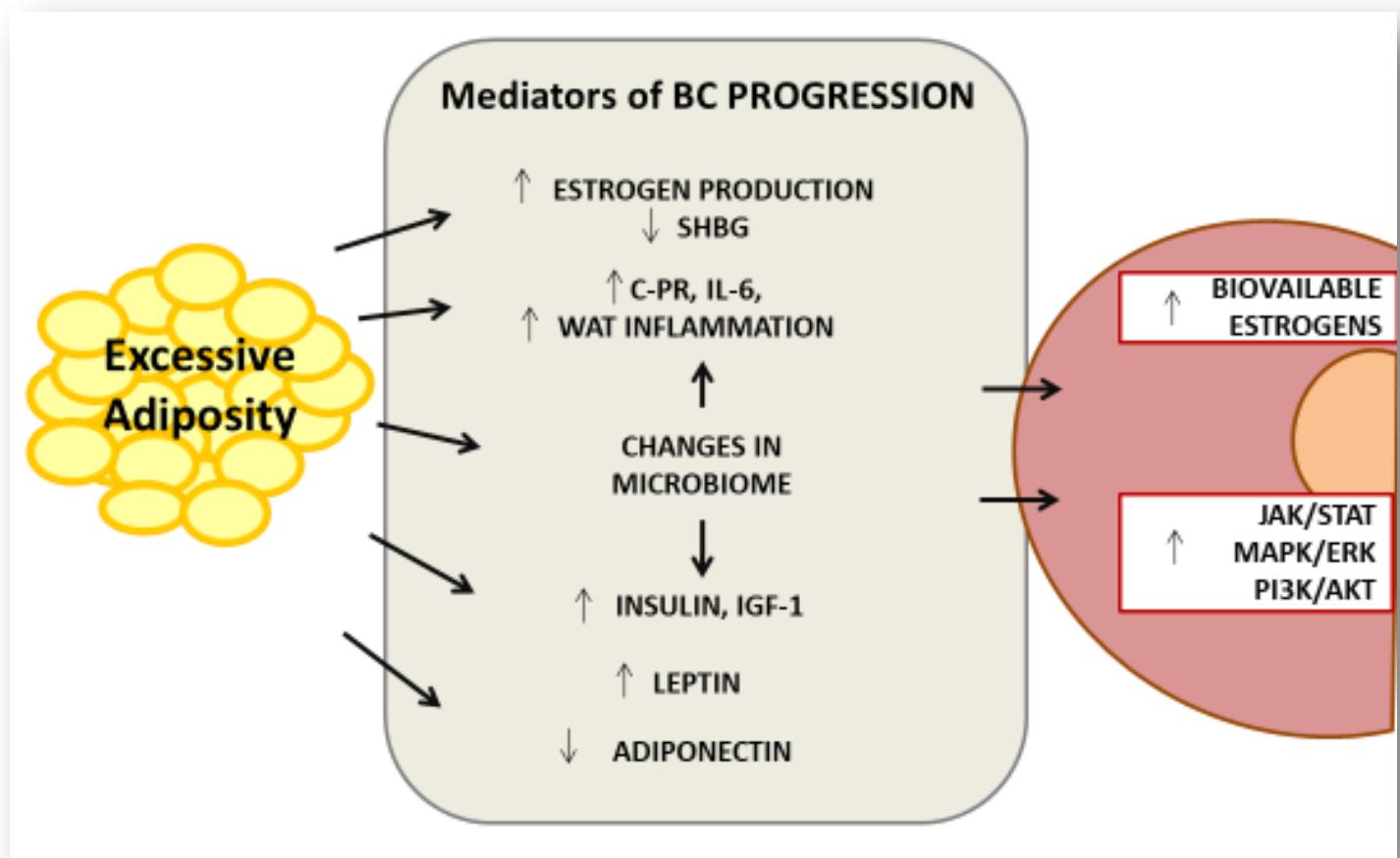


The time between the diagnosis of PDAC and the nutritional support was an independent predictor of OS

Clinical implication of changes in body composition and weight in patients with early-stage and metastatic breast cancer.

Trestini I, Carbognin L, Monteverdi S, Zanelli S, De Toma A, Bonaiuto C, Nortilli R, Fiorio E, Pilotto S, Di Maio M, Gasbarrini A, Scambia G, Tortora G, Bria E

Body composition as a tool to predict individualize chemotherapy dosing, toxicity and efficacy in breast cancer

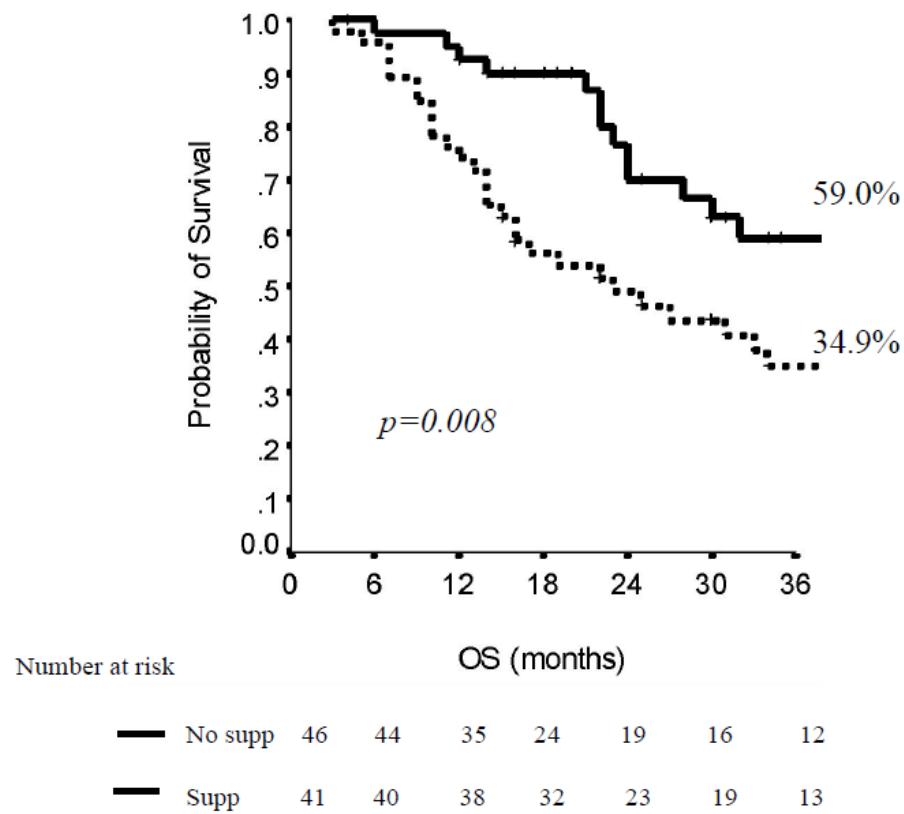


Evidence-based nutrition educational intervention improves adherence to a dietary guidelines (ADG) and weight management among early-stage breast cancer (EBC) patients (pts): a prospective trial.

Variables	At baseline	After 12-months intervention	p-value
BMI (kg/m ²)			
<i>underweight, N (%)</i>	5 (3.3)	0 (0)	
<i>normal weight, N (%)</i>	73 (48.0)	126 (82.9)	<i>p=0.003</i>
<i>overweight, N (%)</i>	60 (39.5)	21 (13.8)	
<i>obesity, N (%)</i>	14 (9.2)	5 (3.3)	
WC (cm)			
<i>central obesity</i>	58 (38.2)	11 (7.2)	<i>p=0.01</i>
<i>not central obesity</i>	94 (61.8)	141 (92.8)	

Tailored nutritional intervention in patients affected by Head and Neck Cancer undergoing chemotherapy and/or radiotherapy: a ‘Real-World’ study.

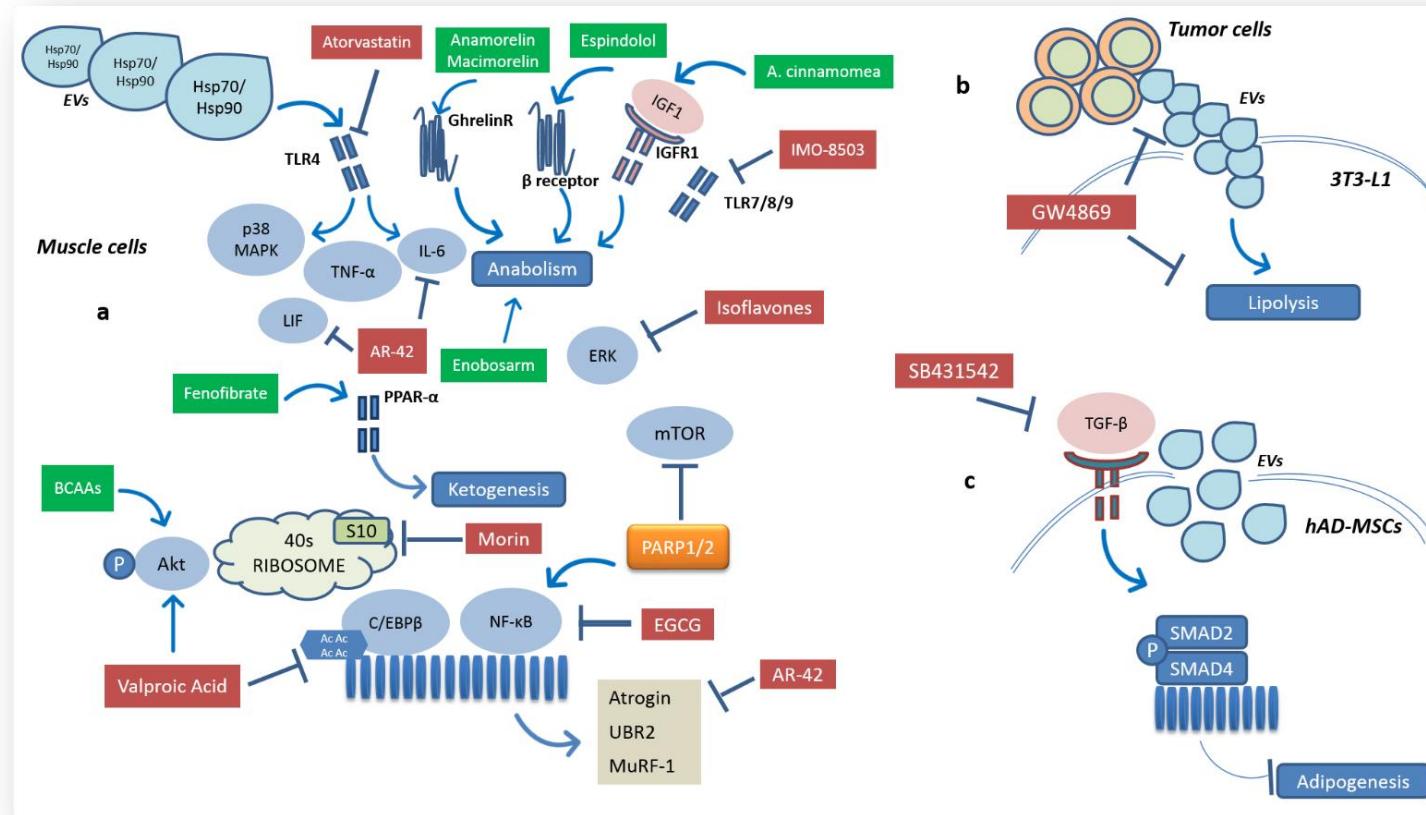
Trestini I, Carbognin L, Sperduti I, Bonaiuto C, Tondulli L, Avancini A, Tregnago D, Pilotto S, Tortora G, Milella M, Bria E.



The nutritional intervention was an independent predictor for better OS.

Muscle derangement and alteration of the nutritional machinery in NSCLC.

Trestini I, Gkountakos A, Carbognin L, Avancini A, Lanza M, Molfino A, Friso S, Corbo V, Tortora G, Scarpa A, Milella M, Bria E, Pilotto S.

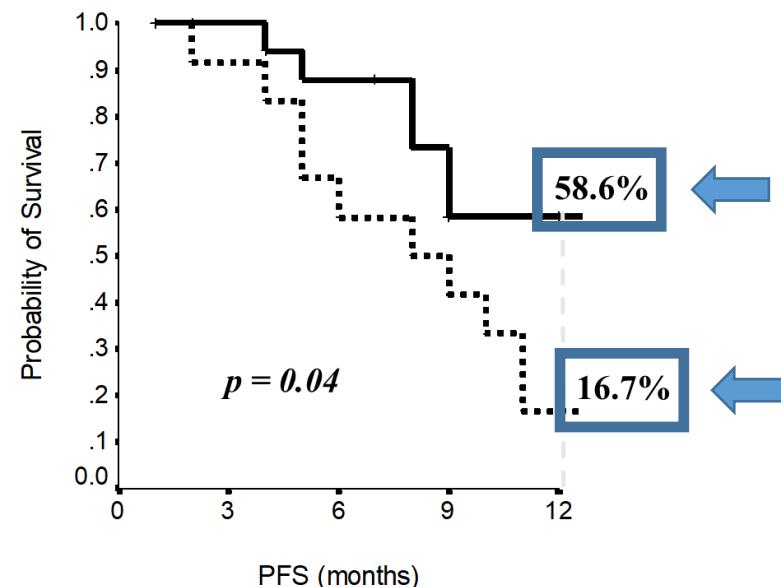


Incorporating a specialized and accurate body composition assessment into a comprehensive, patient-centered and tailored intervention will facilitate the achievement of nutritional goals and optimal care for lung cancer patients

IMPACT OF NUTRITIONAL DERANGEMENT ON TREATMENT OUTCOME IN ADVANCED NON-SMALL-CELL LUNG CANCER (A-NNSCLC) PATIENTS (PTS).

I. Trestini, I. Sperduti, M. Sposito, D. Kadrija, A. Drudi, D. Tregnago, A. Avancini, L. Carbognin, A. Santo, M. D'Onofrio, M. Lanza, G. Tortora, E. Bria, M. Milella, S. Pilotto

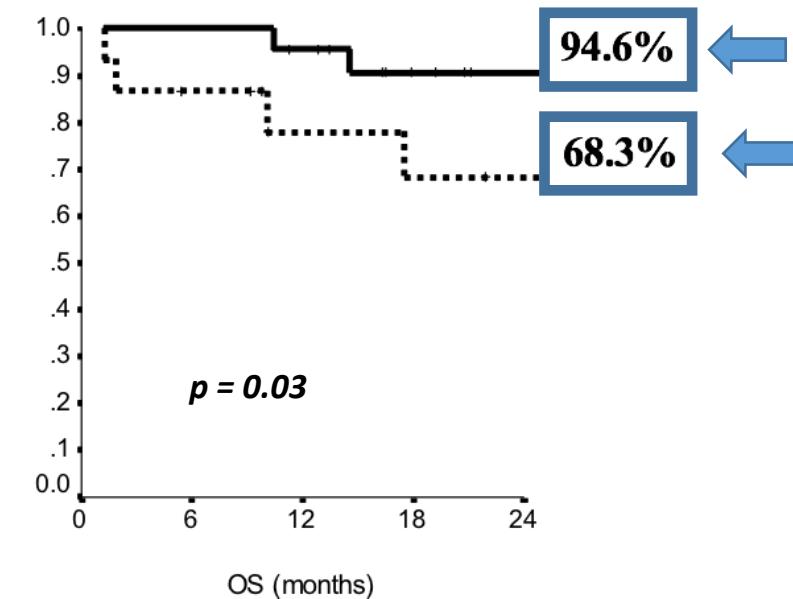
PFS in relazione all'NRS-2002



NRS-2002 ≤ 3 — 18 17 14 10 7
NRS-2002 > 3 14 11 8 6 2

I pazienti con NRS-2002 ≤ 3 beneficiano anche di una migliore ORR (66.7% vs 21.4%, $p=0.016$) rispetto a coloro con NRS-2002 > 3

OS in relazione all'NRS-2002

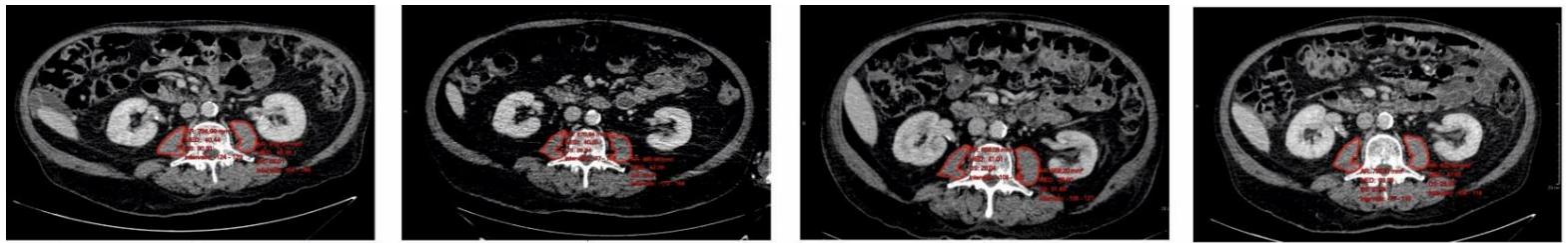


NRS-2002 ≤ 3 — 23 23 21 15 11
NRS-2002 > 3 15 12 8 8 6

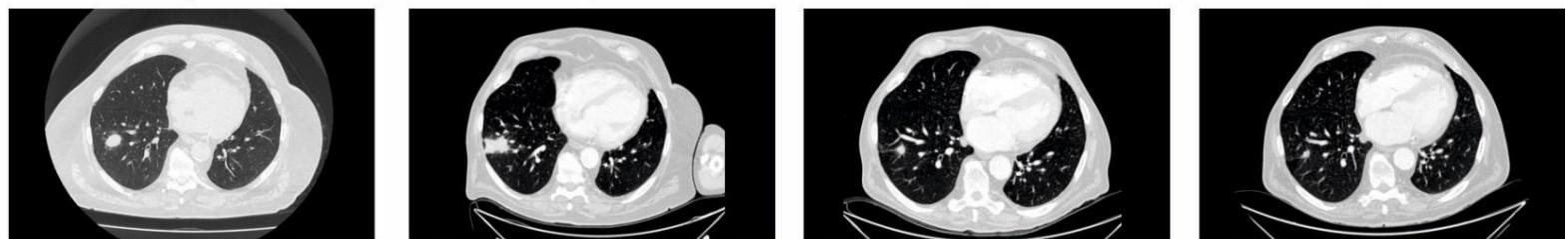
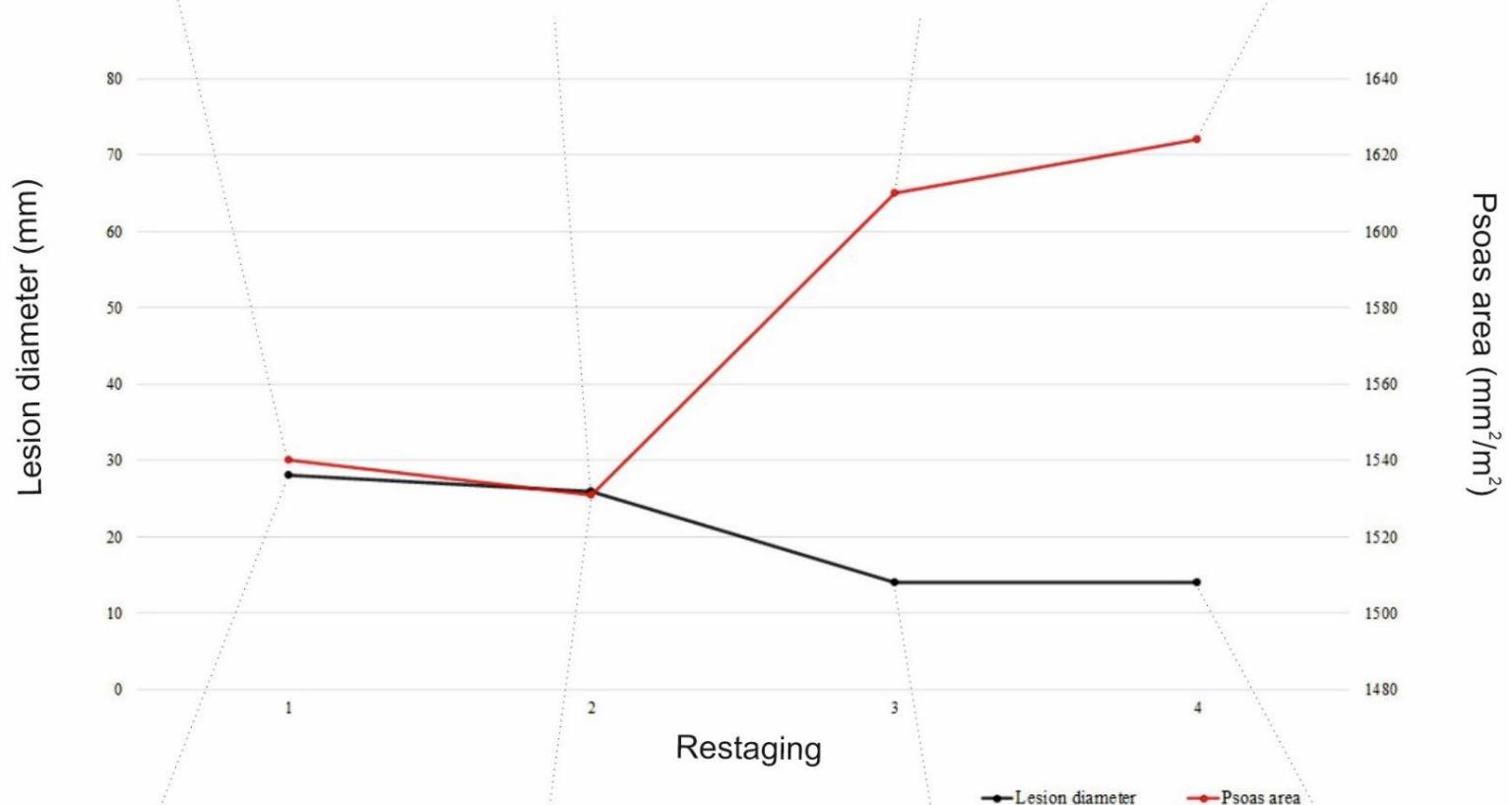
L'indice di massa corporea (IMC) non influenza PFS e OS

Risultati – Deplezione muscolare e immunoterapia

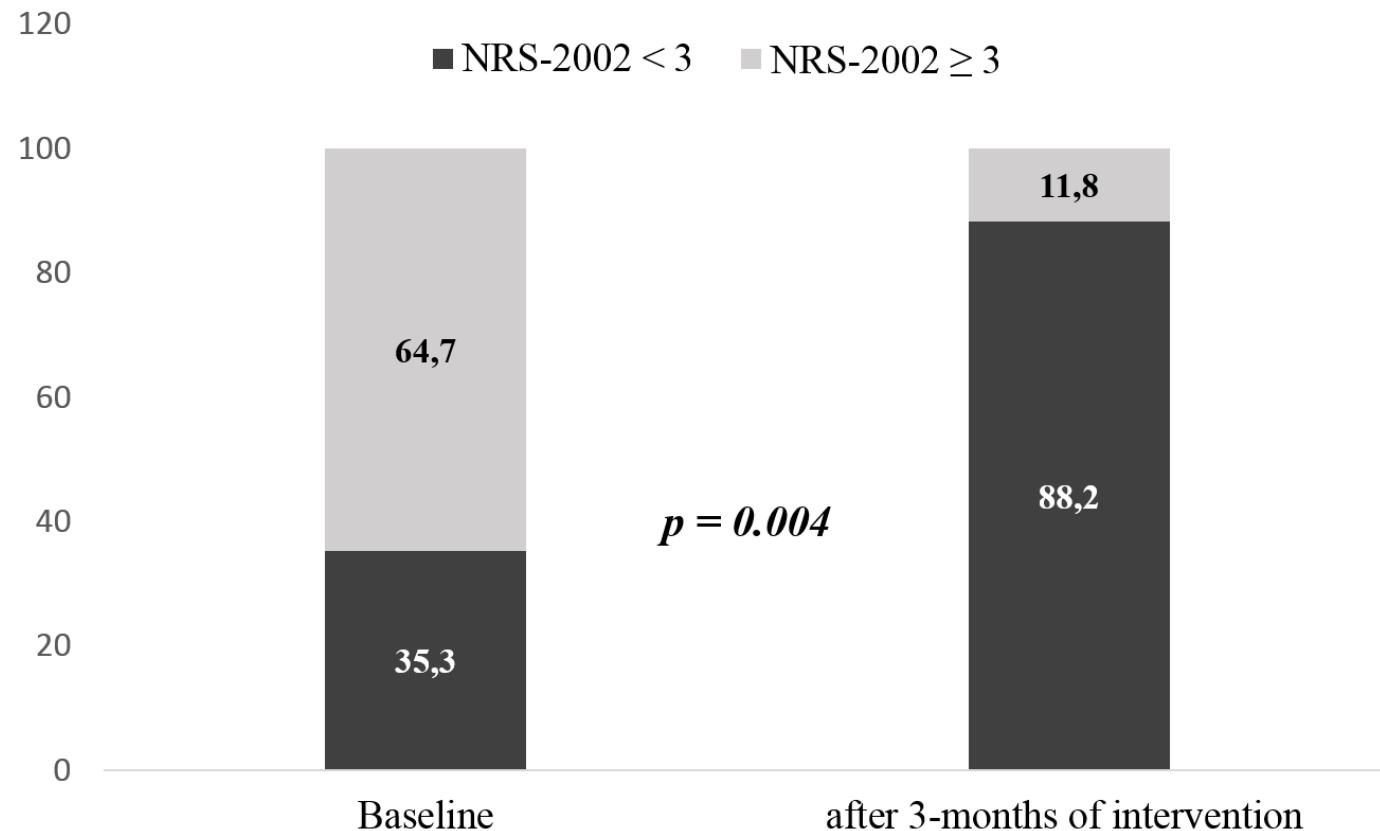
Nei pazienti trattati con immunoterapia (n=16, 42.1%) la riduzione della massa magra correla con un peggior *outcome* (PFS, OS e ORR).



LESION DIAMETER AND MUSCLE MASS OVER TIME



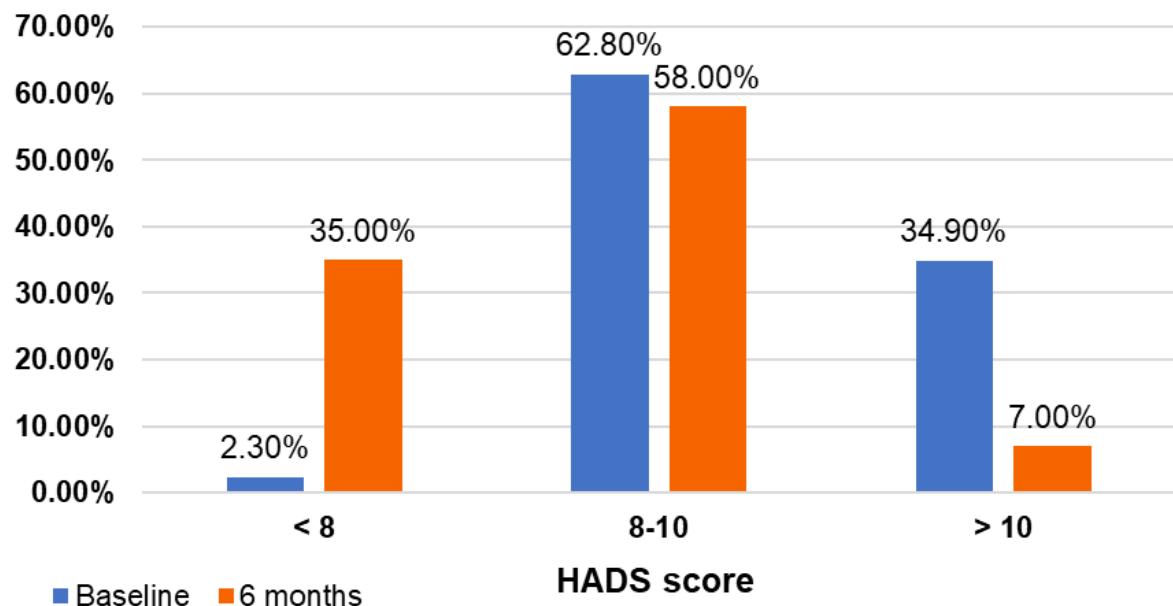
Malnutrition significantly improved after nutritional intervention



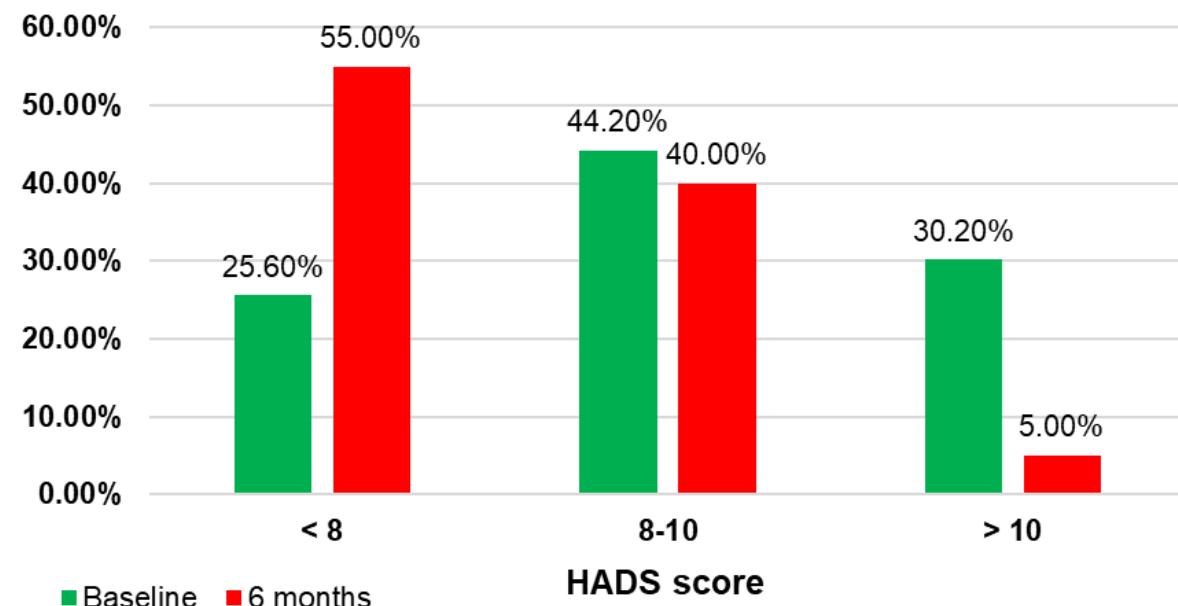
Impact of Cognitive-Behavioral-Therapy (CBT) on levels of anxiety, depression and distress in cancer patients (pts)

D. Tregnago, L. Carbognin, I. Trestini, A. Avancini, G. Sartori, E. Fiorio, V. Parolin, M. Lanza, M. Rimondini, L. Del Piccolo, E. Bria, M. Milella, S. Pilotto.

HADS-A at baseline and 6 months after CTB

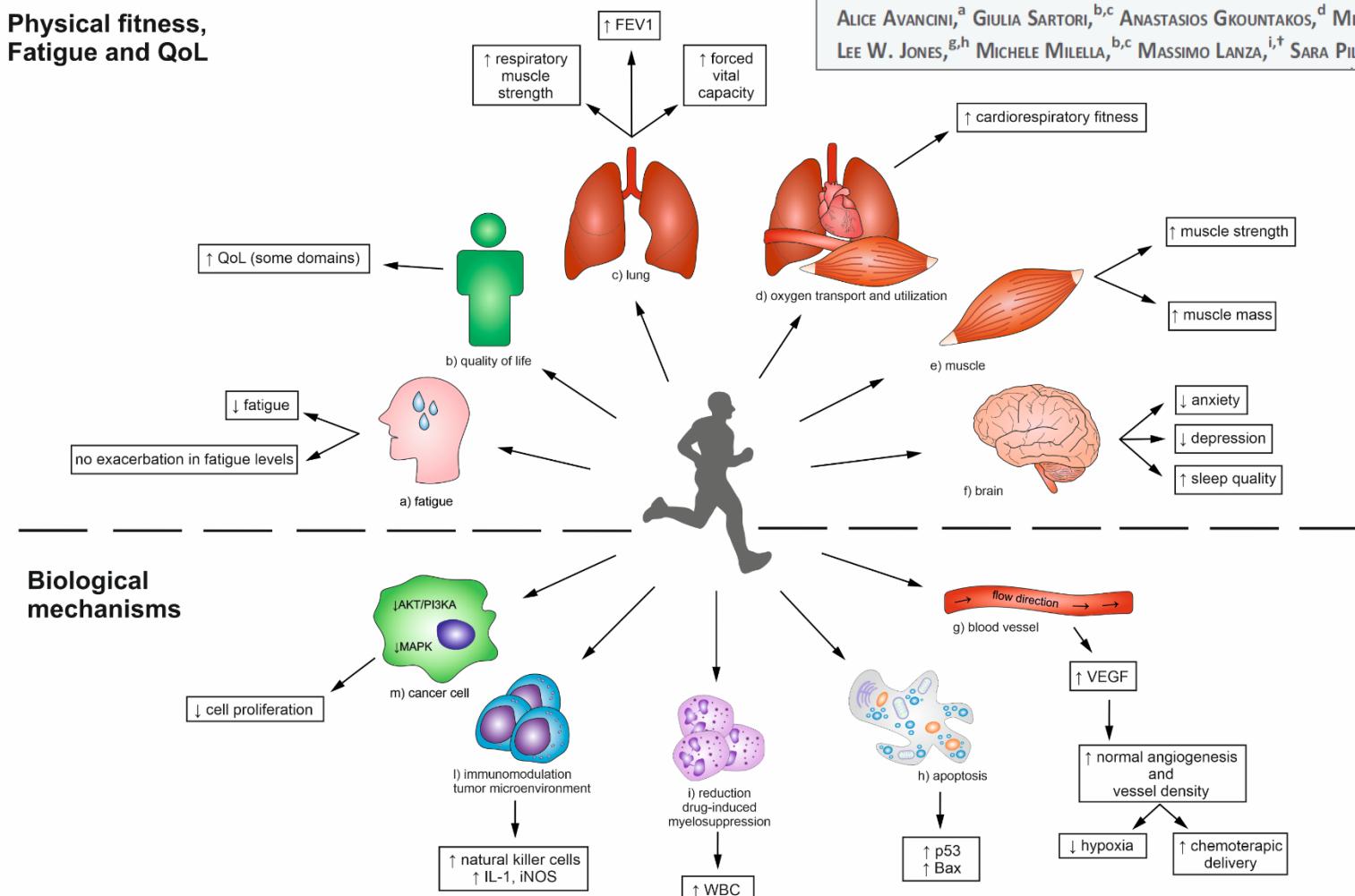


HADS-D at baseline and 6 months after CTB



Physical Activity and Exercise in Lung Cancer Care: Will Promises Be Fulfilled?

Physical fitness, Fatigue and QoL



PROGETTI IN CORSO...

C.H.O.iC.E. (Choose Health: Oncological patients Centered Exercise)

- Trial randomizzato multicentrico, che valuti l'efficacia preliminare, di un programma di esercizio fisico, basato sulle attuali linee guida, ma tenga in considerazione le preferenze delle persone.



M.O.T.O (Motives, Obstacles Towards run in Oncology)

- Analisi qualitativa delle motivazioni e delle barriere nell'attività podistica, nel contesto dell'iniziativa «Run for Science».

E.D.u.C.A. (Educational materials Development for physical activity in CAncer patients)

- Validazione di una guida informativa e pratica sull'attività fisica nei pazienti con diagnosi oncologica.

E.C.H.O. (Exercise in Cancer: the Healthcare professionals Opinion)

- Identificare l'opinione degli operatori sanitari verso la raccomandazione della pratica di esercizio fisico nel contesto oncologico;
- Identificare le conoscenze, le barriere e le motivazioni riguardo la promozione dell'esercizio fisico.

S.P.R.I.N.T. (Short Preoperative tRaining In luNg patienTs)

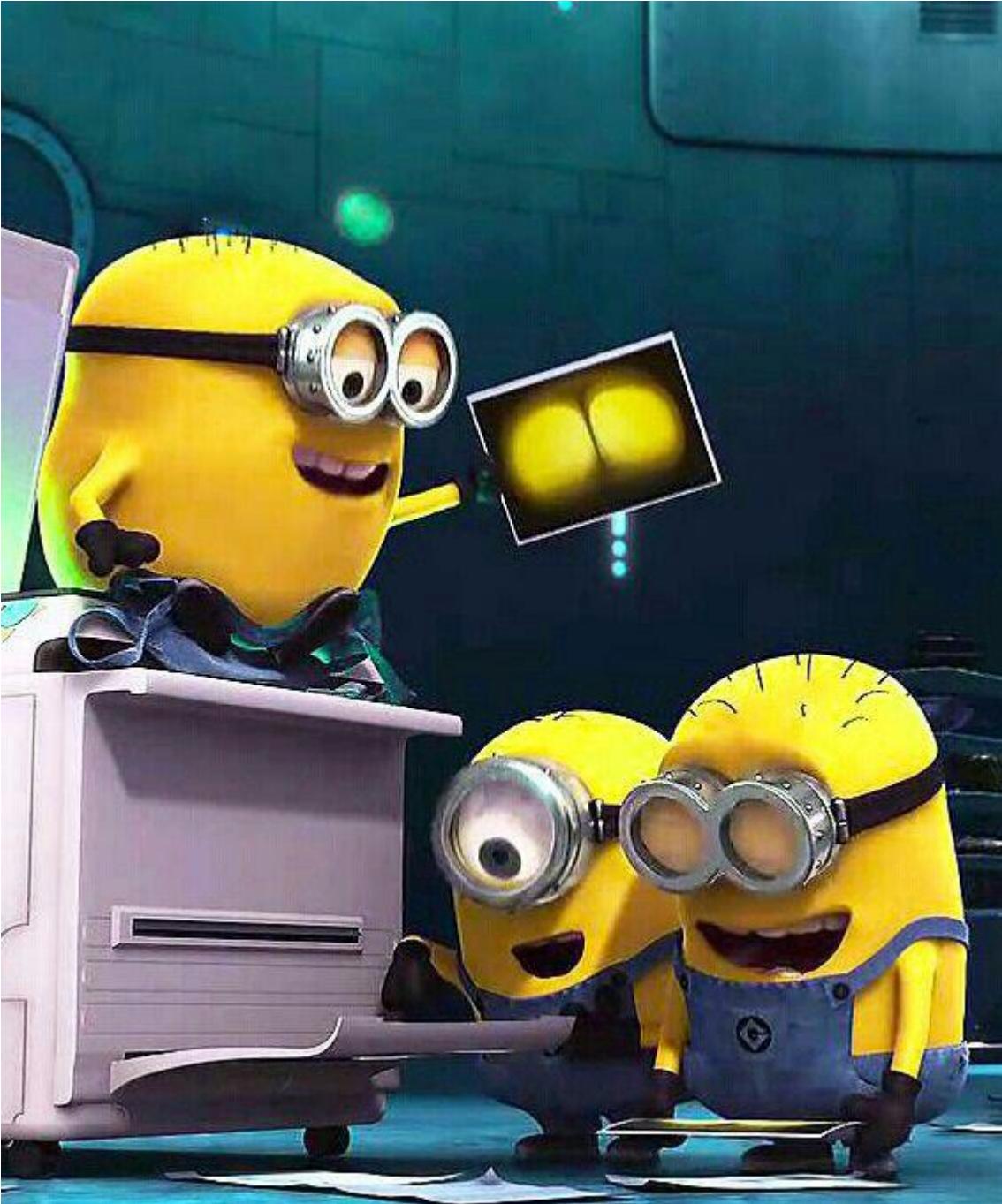
- Trial randomizzato, che valuta l'efficacia, di un programma di esercizio fisico in fase preoperatoria, sulle complicanze postoperatorie;

P.E.P.SY (Preoperative Exercise in Pancreatic SurgerY)

- Studio prospettico osservazionale per valutare il ruolo della fitness fisica nell'outcome chirurgico (complicanze e mortalità).

..e molti altri in arrivo..





*Team Work
makes
Dream Work!*

E.D.u.C.A. (Educational materials Development for physical activity in CAncer patients)

FASE 1

- Obiettivo: esplorare le attitudini le conoscenze, le barriere e le motivazioni verso la pratica dell'attività fisica
- Metodologia: indagine qualitativa (focus group)

FASE 2

- Obiettivo: validazione dell'adeguatezza della guida informativa e pratica sull'attività fisica dopo una diagnosi oncologica, da parte di un gruppo di pazienti ($n=10$) e di esperti ($n=20$)
- Metodologia: indagine quantitativa (cross-sectional)

FASE 3

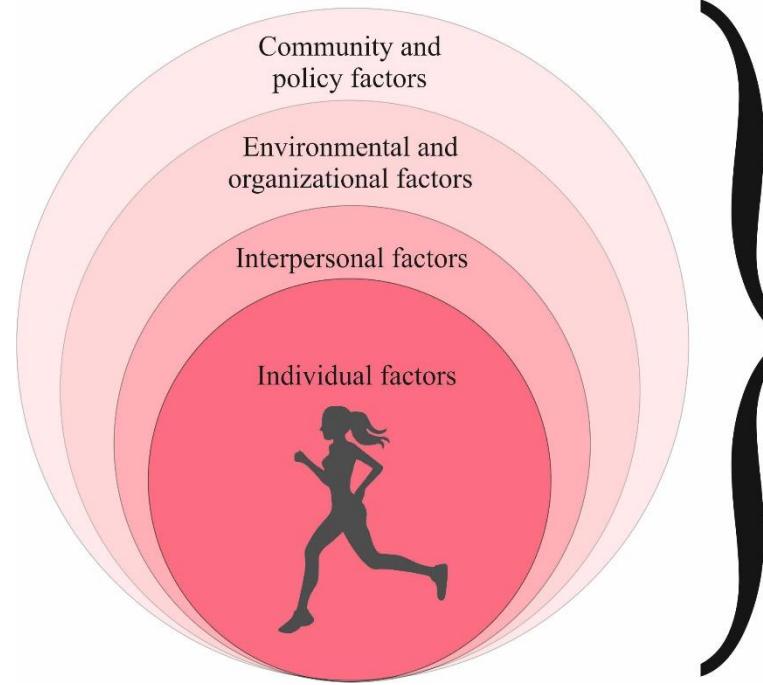
- Obiettivo: verifica della preliminare efficacia della guida;
- Metodologia: interventistico (prospettico longitudinale)

“Informa”

Una guida informativa e pratica
sull'attività fisica dopo la diagnosi



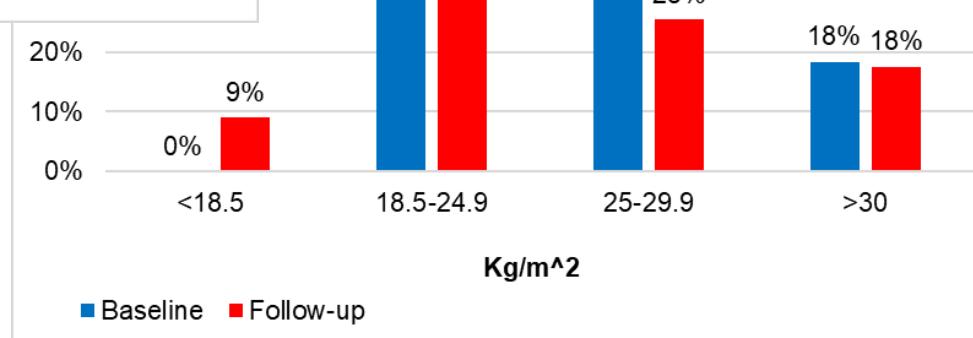
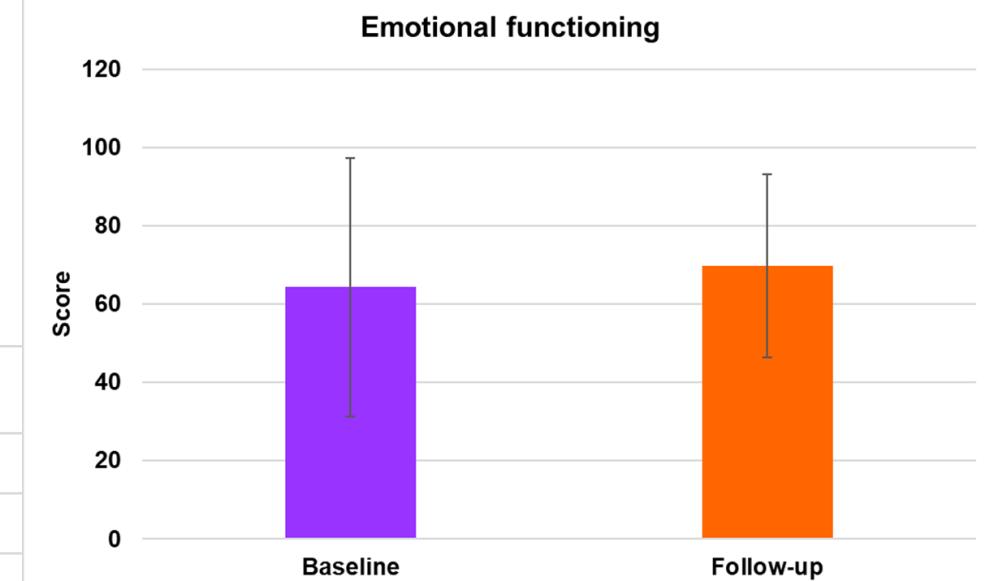
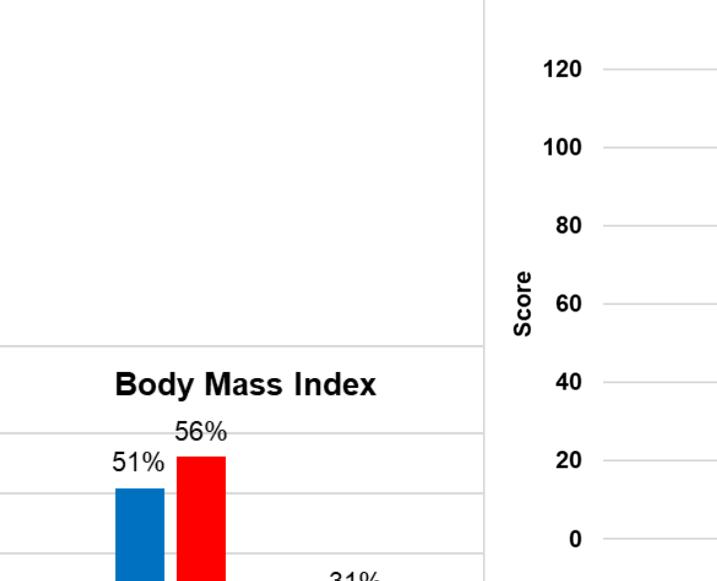
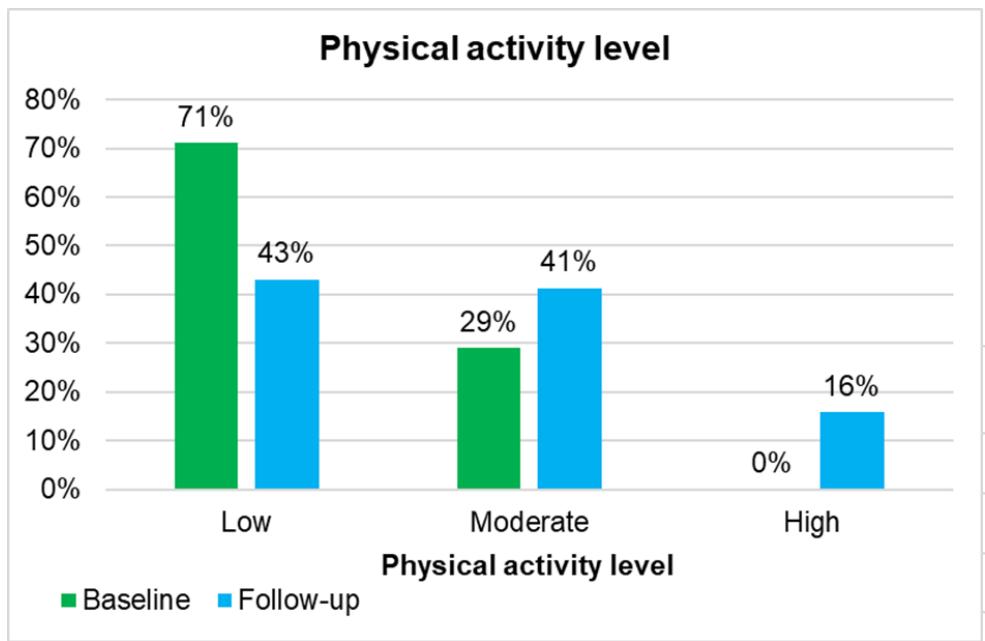
Run with cancer at “*Run for Science*”: a qualitative study to evaluate the barriers and the motivations in running



↑ Adeherence to running program
↑ Compliance to running program

PROSPECTIVE LIFESTYLE (PHYSICAL ACTIVITY, NUTRITION AND PSYCHOLOGICAL ASPECT) ASSESSMENT IN EARLY STAGE BREAST CANCER

Aims: Examine the change of physical activity, weight management and emotional functioning during and after adjuvant therapy for early stage breast cancer.



PROSPECTIVE LIFESTYLE (PHYSICAL ACTIVITY, NUTRITION AND PSYCHOLOGICAL ASPECT) ASSESSMENT IN EARLY STAGE BREAST CANCER

	Body mass index at baseline	Emotional functioning at baseline	Energy expenditure at follow-up	Emotional functioning at follow-up	Body mass index at follow-up
Energy expenditure at baseline	-0,393 P<0,001	0,195 P=0,0575	0,175 P=0,0625	-0,0109 P=0,908	-0,381 P<0,001
Body mass index at baseline		-0,528 P<0,001	-0,088 0,351	-0,152 P=0,106	0,833 p><0,001
Emotional functioning at baseline			-0,112 P=0,275	0,221 P=0,0308	-0,443 P<0,001
Energy expenditure at follow-up				0,247 P=0,0083	-0,0444 P=0,642
Emotional functioning at follow-up					-0,155 P=0,102



A Multidisciplinary Intervention in the Management of Metastatic Pancreatic Cancer: A Case Report

Measure	At baseline	Post-intervention
Resting blood pressure and heart rate		
Resting systolic blood pressure (mmHg)	103	109
Resting diastolic blood pressure (mmHg)	70	61
Resting heart rate (bpm)	68	61
Six minutes walking test (m)	416.0	525.6
Handgrip strength (kg)		
Right arm	22	24
Left arm	22	23
RPE	4.0	5.5
Anthropometric parameters		
Body weight (kg)	49.0	53.2
BMI (kg/m ²)	18.0	19.5
Waist (cm)	67.1	70.5
Hip (cm)	89.3	92.0
NRS-2002 score	3.0	2.0

Measure	At baseline	Post-intervention
Quality of life (score 0-100)		
Physical functioning	73.3	80.0
Emotional functioning	75.0	83.3
Social functioning	33.3	66.7
Fatigue	55.6	66.7
Pain	33.3	50.0
Dyspnea	33.3	66.7
Insomnia	33.3	66.7
Physical activity level (min/week)		
Light	210.0	420.0
Psychological status (score 0-21)		
Hospital Anxiety and Depression Scale – anxiety	16	9
Hospital Anxiety and Depression Scale – depression	18	11
Distress Thermometer	8	4
Nutritional impact symptoms		
Dysphagia	Yes	No
Oral mucositis	Yes	No
Dyspepsia	Yes	No
Nausea or vomiting	Yes	No
Xerostomia	Yes	No
Diarrhea	Yes	No

MAY 28, 2001

www.time.com AOL Keyword TIME

TIME

THERE IS NEW AMMUNITION
IN THE WAR AGAINST
CANCER.
THESE ARE THE BULLETS.

Revolutionary new pills like GLEEVEC
combat cancer by targeting only the
diseased cells. Is this the breakthrough
we've been waiting for?



APRIL 1, 2013

GOP Makeover / Drone Morality / The Marriage Test By Joel Stein

TIME

HOW TO
CURE
CANCER*

*Yes, it's now possible—thanks to
new cancer dream teams that are
delivering better results faster

BY BILL SAPORITO

www.time.com

Impact of a comprehensive lifestyle intervention on immunological parameters and outcome in non-small-cell lung cancer



Hypothesis: A comprehensive lifestyle intervention including:

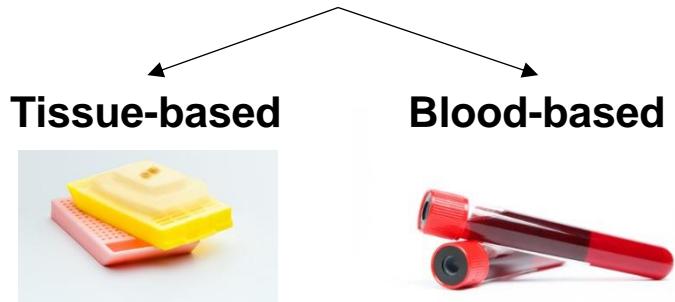
- 1) nutritional management
- 2) physical activity and
- 3) psychological support

may modulate immunological parameters and improve immunotherapy outcome in NSCLC patients.

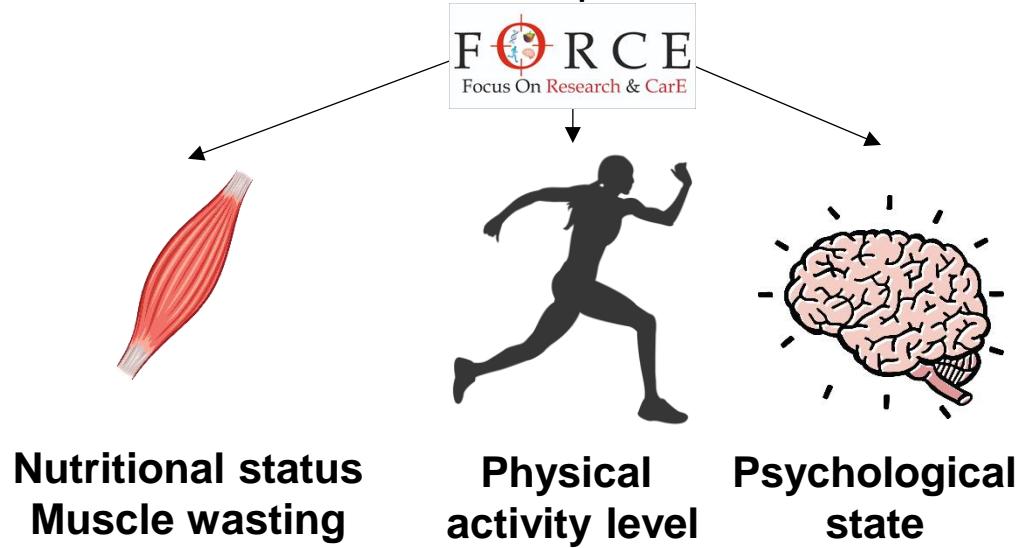
Impact of a comprehensive lifestyle intervention on immunological parameters and outcome in non-small-cell lung cancer

RETROSPECTIVE & PROSPECTIVE PHASE

Task: aims to build a signature for predicting the outcome of immunotherapy-treated NSCLC patients



Task: aims to evaluate the effect of our comprehensive lifestyle approach on the outcome of immunotherapy-treated NSCLC patients



Impact of a comprehensive lifestyle intervention on immunological parameters and outcome in non-small-cell lung cancer

INTERVENTIONAL PRECONDITIONING TRIAL

