

Highlights in Supportive Care Oncology

Highlights
2021

MASCC[®]/ISOO[®]

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2021

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Febrile Neutropenia

Sepsis Management

Cooksley T. *et al.* - MASCC® 2021 - Febrile Neutropenia Session

Guidelines Reminder

Rapoport E. *et al.* - MASCC® 2021 - Febrile Neutropenia Session

Filgrastim IV vs SC: is there any difference?

Pon D. *et al.* - MASCC® 2021 - Febrile Neutropenia Session



Parallel Session: Febrile Neutropenia: The Patient Journey

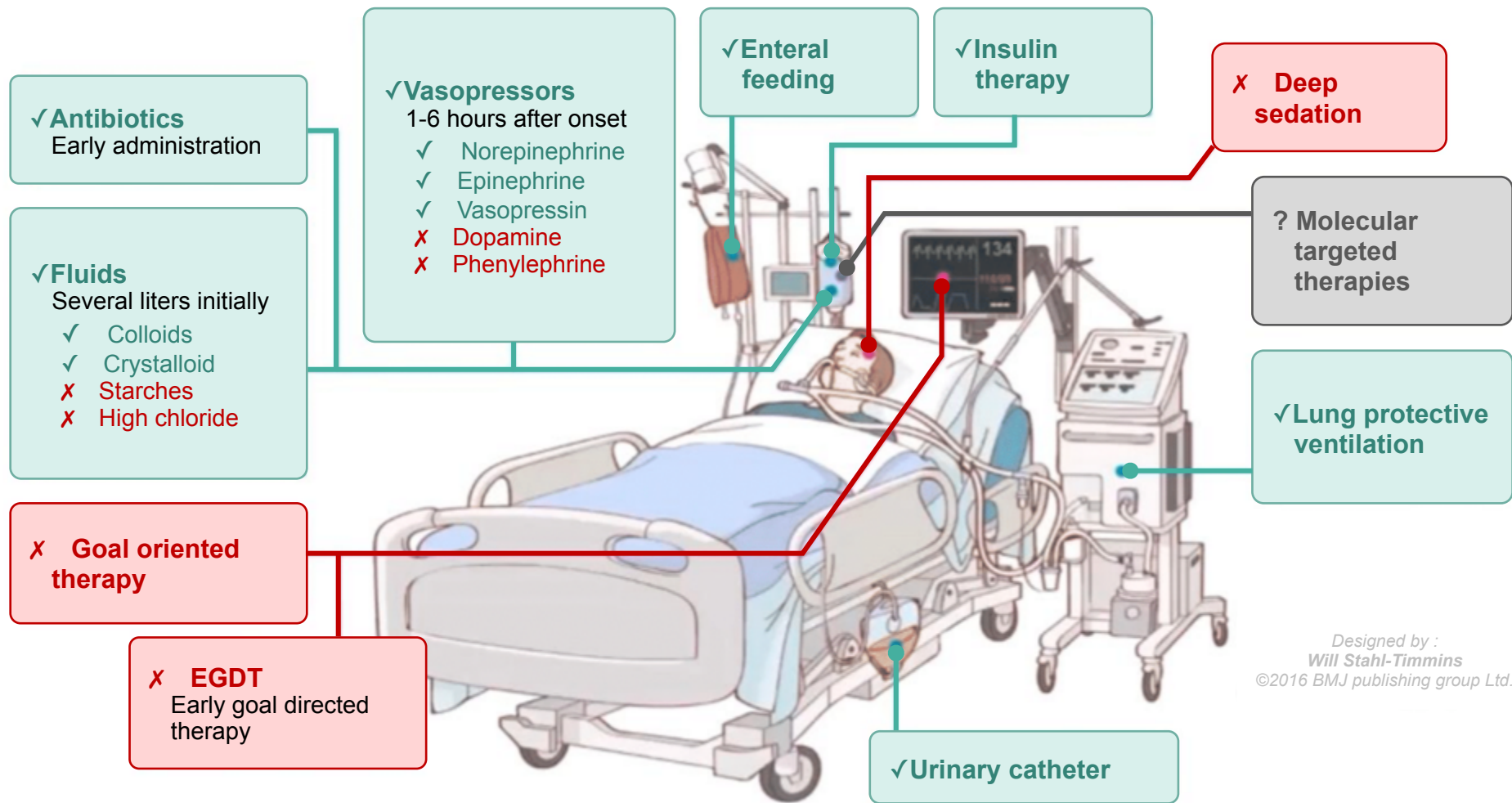
Cooksley T. et al. - MASCC® 2021 - Febrile Neutropenia Session

Rapoport E. et al. - MASCC® 2021 - Febrile Neutropenia Session



Sepsis Management

Treating sepsis : the latest evidence



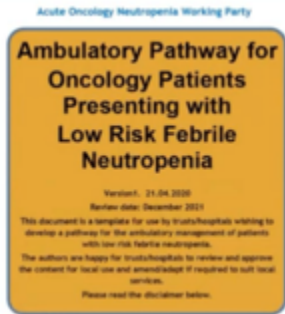
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 Will Stahl-Timmins
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UK Low Risk Febrile Neutropenia Pathway

(adapted figures from Tim Cooksley presentation at MASCC 2021)



MASCC Score ≥ 21 : Complete ambulatory low risk FN pathway checklist :

- Patient > 18 yrs old
- Patient has a solid tumor
- History of temperature $\geq 37^{\circ}5$ or $\leq 36^{\circ}0$
- Patient has received systemic anti-cancer therapy
- Patient has absolute neutrophil count (ANC) $< 1.0 \times 10^9/L$
- First dose of empirical intravenous antibiotic therapy administered
- Patient has ready access to an Emergency Department

The patient should be observed for an agreed minimum period of time to ensure clinical stability. We recommend a minimum of 4 hours

MASCC Score < 21 :

↓

Inpatient Management of neutropenic sepsis

↑

Patients condition worsens, reassess NEWS2 and sepsis Red Flag

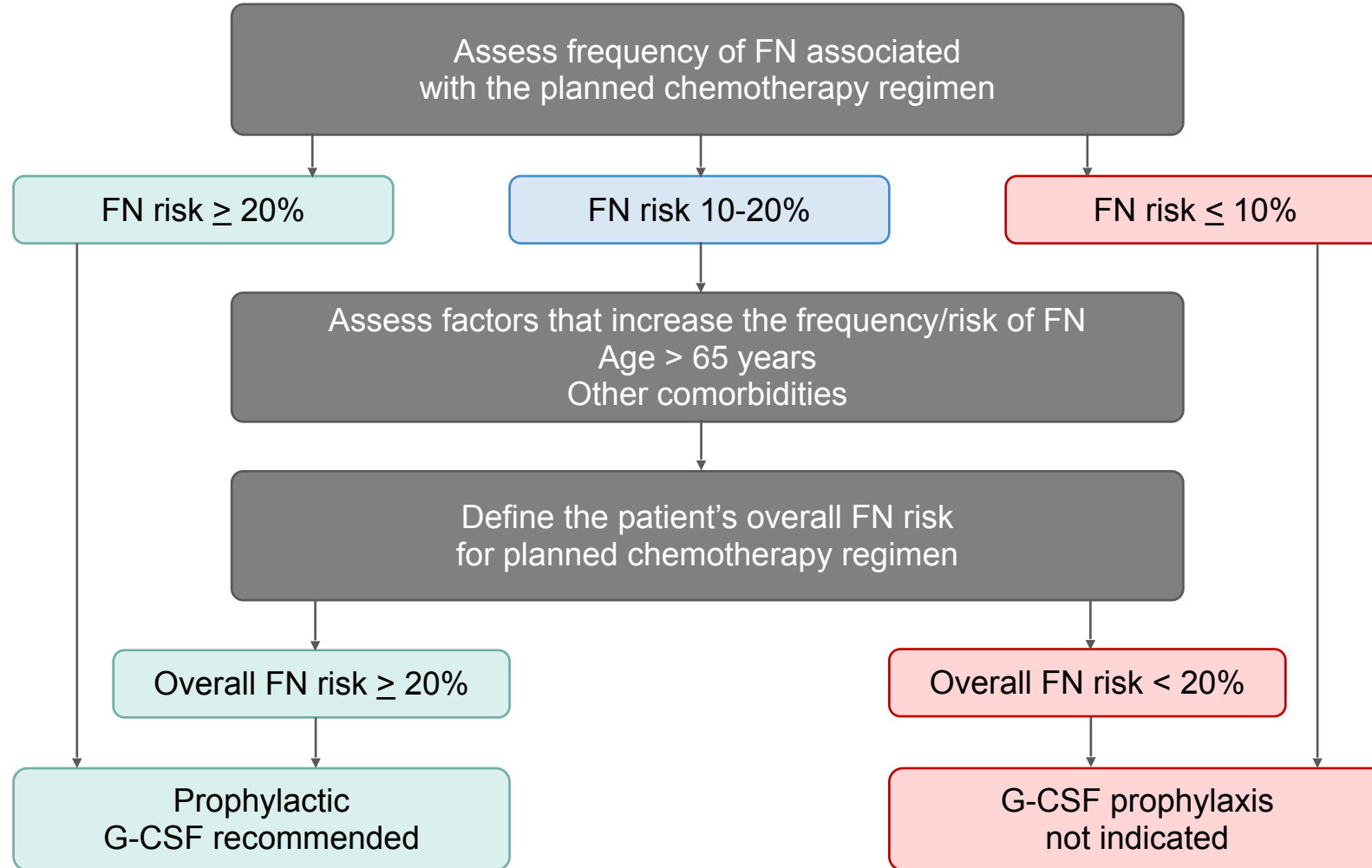
If patient remains stable

If the patient's condition worsens

- Commence **oral** antimicrobial therapy with amoxicillin/clavulanic acid and ciprofloxacin. Consider local sensitivity and resistance.
 - Advise the patient to complete any prophylactic G-CSF previously prescribed but do not start G-CSF
 - Provide additional support treatment as indicated
-
- Update the Acute Oncology Team of assessment and entry onto low risk ambulatory pathway to ensure appropriate follow up and management
 - Ensure patient's appointment for review by telephone or in an ambulatory setting (within 48 hours recommended)
 - Ensure patient's access to 24h specialist oncology telephone advice line
 - Ensure patient's knowledge on signs and symptoms that should trigger medical assessment and when they should return to the hospital
-
- Review the patient by telephone or in an ambulatory setting to assess clinical progress (48h recommended)
 - Repeat full blood count if appropriate
 - Review results of initial cultures
 - Consider rationalising antimicrobials
 - Inform patient's treating oncology team

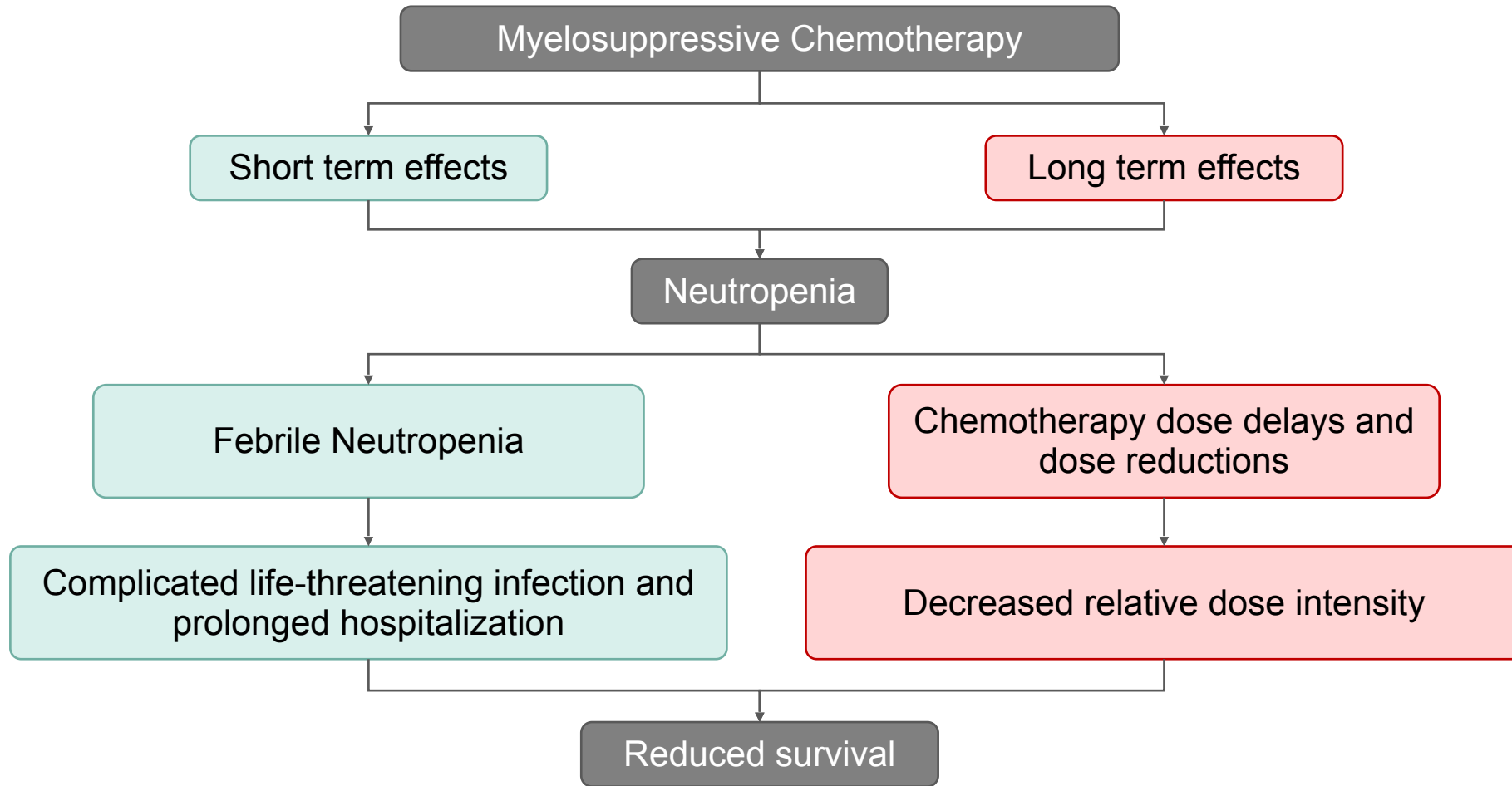


ESMO guidelines / G-CSF primary prophylaxis



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Complications of Myelosuppressive Cancer Chemotherapy



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Summary Febrile Neutropenia (FN)

- ▶ FN requires rigorous initial work-up
- ▶ Early IV antibiotics and source control is main goal of treatment
- ▶ Excellent supportive care is needed
- ▶ Outpatient management of low risk FN is safe and feasible
- ▶ Local pathways and innovative for delivery are required
- ▶ Predictive risk tools are helpful
- ▶ Prophylactic GCSF use decreases FN complications
- ▶ Pegfilgrastim and its biosimilars are recommended in the context of Covid-19 pandemic
- ▶ Use G-CSF in order to avoid FN mortality



Parallel Session: Febrile Neutropenia: The Patient Journey

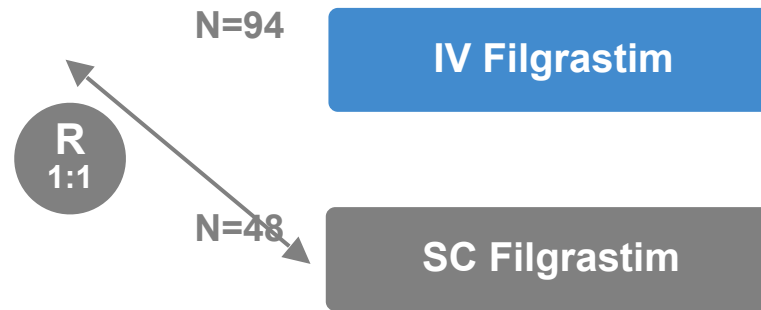
Pon D. et al. - MASCC® 2021 - Febrile Neutropenia Session

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IV vs SC Filgrastim: is there any difference?

Retrospective study

- Auto HSCT
- BEAM regimen,
- Patients to receive ≥ 1 dose filgrastim (start D+5)

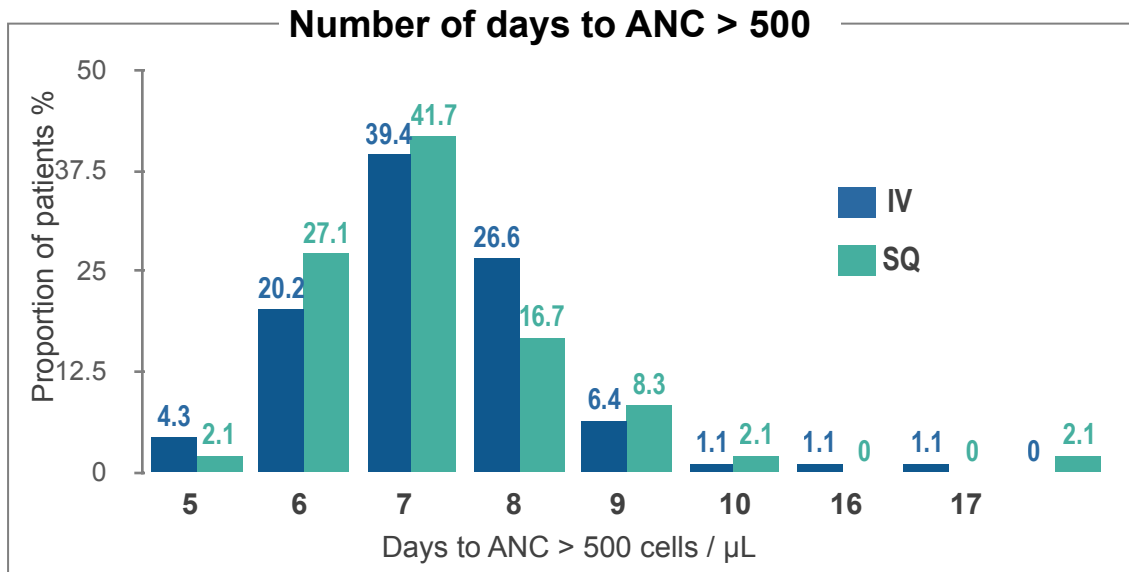


Primary objective:

- Time to ANC > 500 cells/mm³

Secondary objectives:

- Duration of antibiotic coverage
- Hospital length of stay
- 30-day mortality



Global Results			
	IV (n=94)	SC (n=48)	P-value
Days to ANC > 500, mean +/- SD	6.31 \pm 1.88	6.29 \pm 1.47	0.93
Duration of Gram negative antibiotic coverage, mean days +/- SD	9.9 \pm 4.3	11.3 \pm 5.7	0.20
Length of hospital stay, mean days +/- SD	23.5 \pm 4.2	22.7 \pm 3.1	0.24
30-day mortality, N (%)	2 (2.1)	0 (0)	0.54

IV: Intra-venous
 SC: Sub Cutaneous
 ANC: Absolute Neutrophil count

➤ No differences between IV and SC G-CSF route

Survivorship and late effects

Plenary: from definitions to patients' needs

Chan R, Davies A, Nekhlyudov L, Casas A. Survivorship Plenary Session

The skin is a great sentinel

Carlesimo M. *et al.* - MASCC® 2021 *et al.* Parallel Session: Oral and Dermatologic Toxicity of Immunotherapy Oral Proffered Paper 4

The place of acupuncture

Mao J. *et al.*; MASCC® 2021 – Parallel Session - J.Lacey Implementing Integrative Therapies

Integrative oncology

Lacey J. *et al.*; MASCC® 2021 – Parallel Session- Implementing Integrative Therapies

Self management, survival and care organisation

Howell D. *et al.* - MASCC® 2021 – Parallel Session: What Happens After Your Patient Leaves the Consulting Room - Oral Proffered Paper 1



Survivorship:

The plenary of the definitions to the needs of the patients

Chan R. et al. - MASCC® 2021 - Parallel Session: Cancer Survivorship - What Do We Mean?

Davies A. - MASCC® 2021 – Survivorship Plenary Session

SURVIVORSHIP: MASCC® definition

The survivorship study group considers survivorship to span the time between diagnosis and the end of life. Its mission encompasses realization of the fullest potential of cancer survivors in all spheres of life. Accordingly, its areas of effort include:

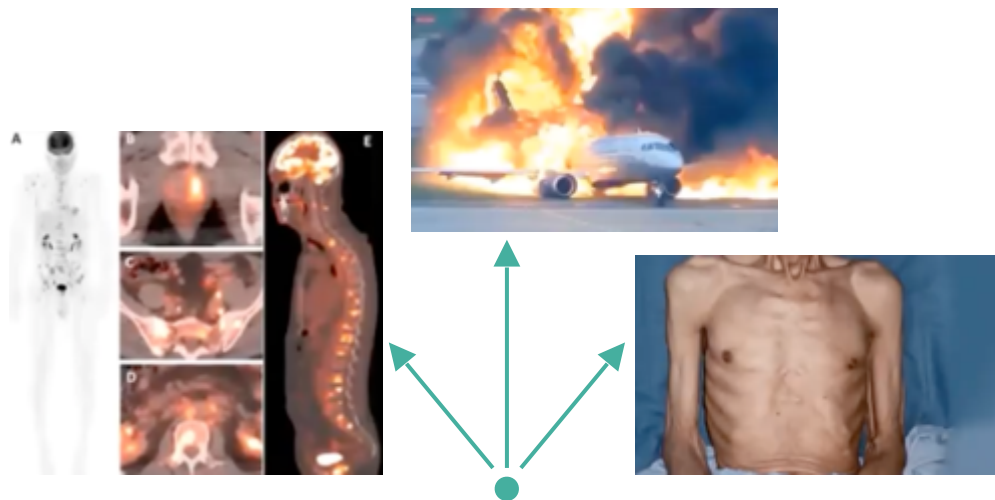
- ▶ Prevention of new or recurrent cancer,
 - ▶ Surveillance for new or recurring cancer,
 - ▶ Interventions for prevention and management of cancer symptoms and treatment side effects (including pre-habilitation and rehabilitation),
 - ▶ Coordination between specialists and primary care providers to ensure that all survivor needs are met
- **" Survivorship" overlaps with "supportive care", "palliative care" and "LIFE"**

The definition needs to be functional and address MASCC®'s mission; inclusiveness and priorities (research and education)

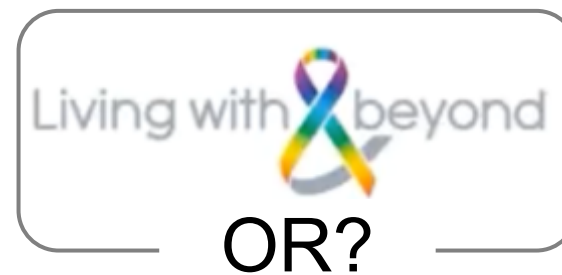
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SURVIVORSHIP: MASCC® definition

"The time between diagnosis and the end of life"



NCI definition: « One who remains alive and continues to function during and after overcoming a serious hardship or life-threatening disease. In cancer, a person is considered to be a survivor from the time of diagnosis until the end of life »



**The Right
to be Forgotten
(ECO 2021)**

***Aversion, discomfort, indifference, reluctance,
acceptance*** (Wee et al. 2021)

Undergoing Treatment: 43.8% agree, 56.2% disagree
Completed treatment: 79.5% agree, 20.5% disagree

SEASONS of SURVIVORSHIP: MASCC® definition

Phases



Be Inclusive but Specific


- ▶ **Acute:** Patients/Survivors at first diagnosis or relapse, who require acute intervention
- ▶ **Chronic:** Patients/Survivors with cancer slowly progresses or alternates between remission and relapse with acceptable QOL
- ▶ **Long Term:** Patients/Survivors in clinical remission for long periods of time or for their entire life, who remain at risk for distant relapse or second tumor and who potentially can experience late treatment medical and psychosocial sequelae
- ▶ **Cured:** disease free Patients/Survivors whose cancer specific mortality and life expectancy years after diagnosis equals that of sex and age matched members of the general population

Surbone, Tralongo. JCO 2016; 34: 3372-3374

SURVIVORSHIP: Patient's Perspective

- ▶ I consider myself as a Person living with cancer,
- ▶ Treatment is over, Now What ?
- ▶ Processing the changes you have experienced and becoming more comfortable with your “New Normal” will help you adapt over time

▶ **The "New Normal Life"**



Late Effects in Oncotherapy : The great sentinel

Carlesimo M. et al. - MASCC® 2021 – EPP 4 – Parallel session

Late Effects in Oncotherapy

The great sentinel

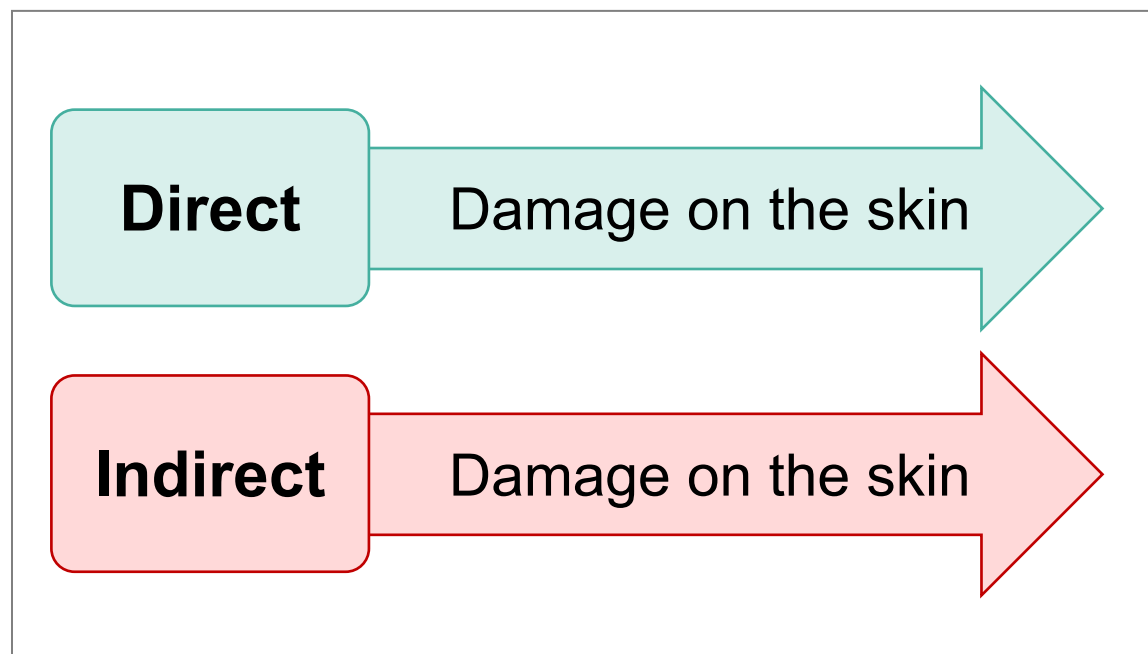
- ▶ Acute skin toxicity of oncotherapy is well known
- ▶ Another spectrum of cutaneous side-effects is emerging: **late effects**
 - Atrophy
 - Loss of strength
 - Loss of flexibility
 - Teleangiectasia
 - Reduced skin elasticity
 - Skin fragility – Purpura – Panniculopathy
 - Hyper/hypo-pigmentation
 - Loss and/or alterations of skin appendages
 - Androgenetic like alopecia
 - Vulvar crurosis



Late Effects in Oncotherapy

The great sentinel

- Where do late effects come from ?



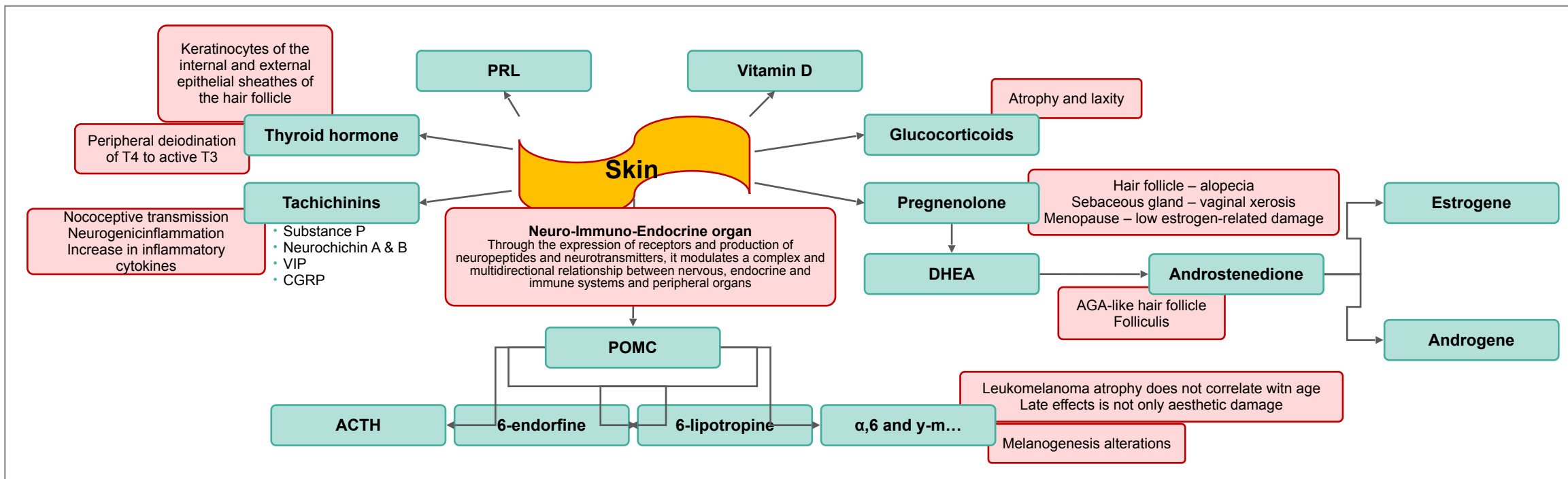


Late Effects in Oncotherapy

The great sentinel

► Direct damage on the skin

- Metabolic function
 - Presence of enzymatic structures typical of the metabolic pathways of carbohydrates, lipids, proteins and some trace elements
- Endocrine function
 - Specific hormone receptor expression, hormone synthesis and catabolism through specific enzymes present



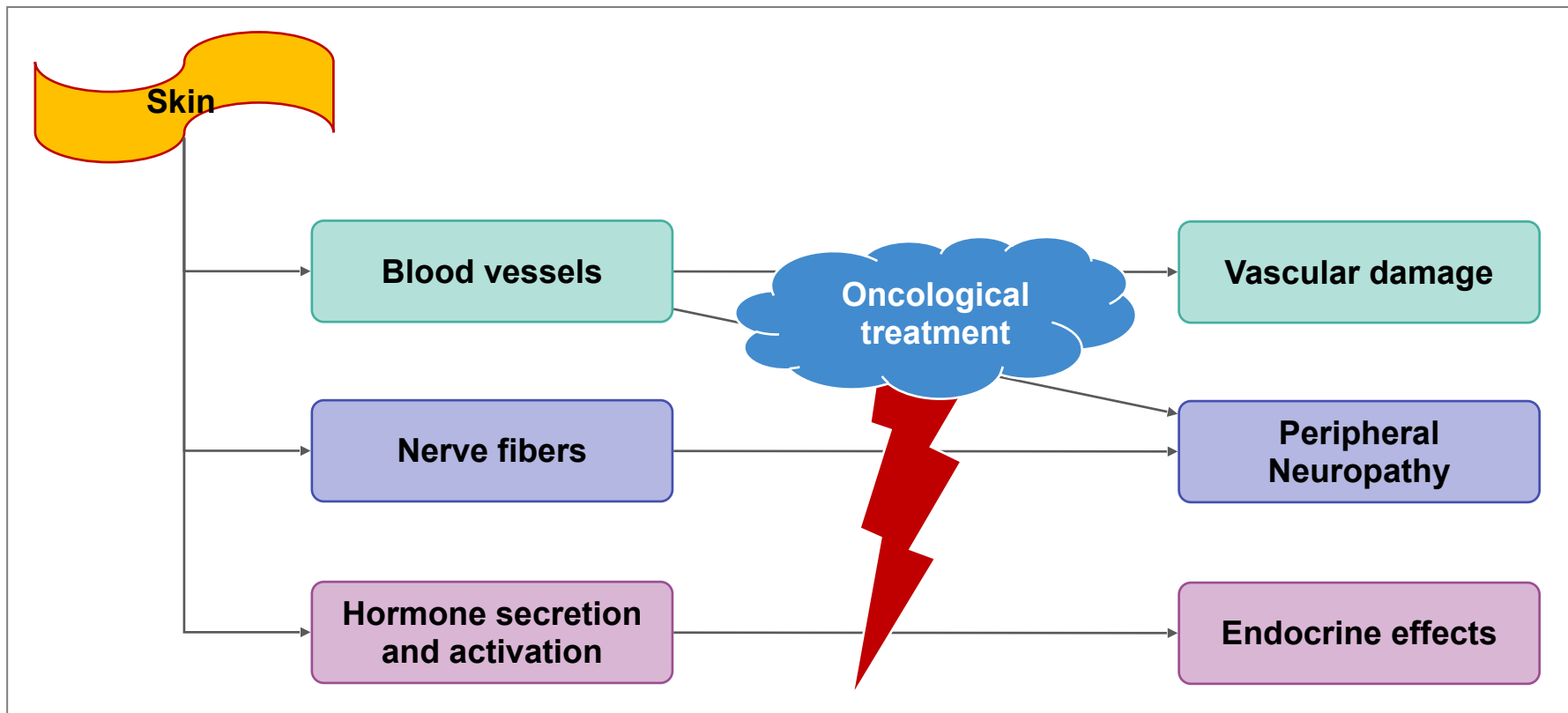
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Late Effects in Oncotherapy

The great sentinel

► Indirect damage on the skin



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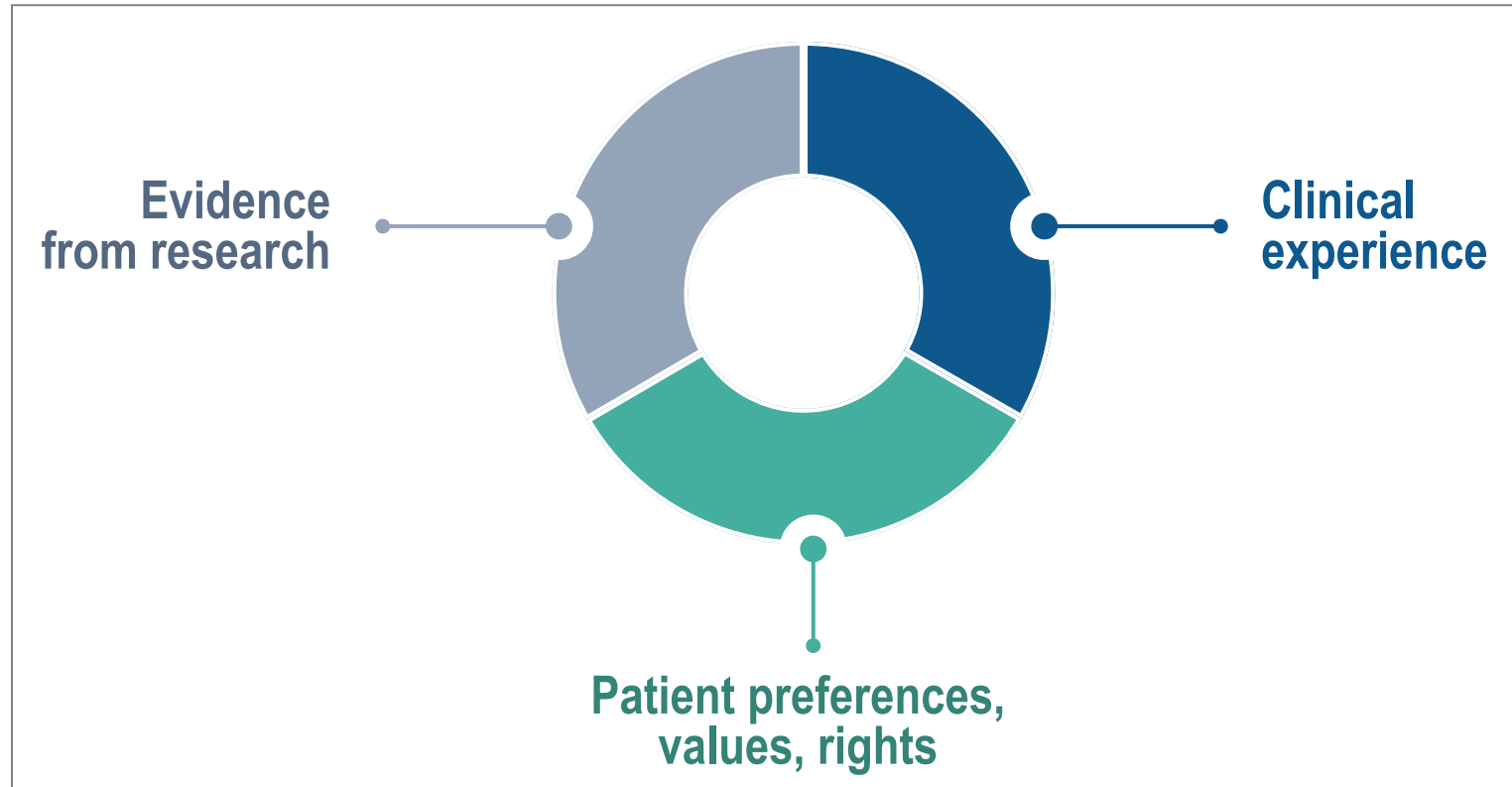
● Complementary Practices: Acupuncture Update

Mao. JL. et al. - MASCC® 2021 - Parallel Session: Implementing Integrative Therapies for Supportive Care in Clinical Practice: Lessons Learned and Future Directions




Integrative Medecine: Acupuncture


- ▶ The integration of the best available research evidence with our clinical expertise and our patients' values and circumstances



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Integrative Oncology : Survivorship



Lacey J . et al.; MASCC® 2021 – PS - Implementing Integrative Therapies



Integrative Oncology: Survivorship



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Integrative Oncology: Survivorship

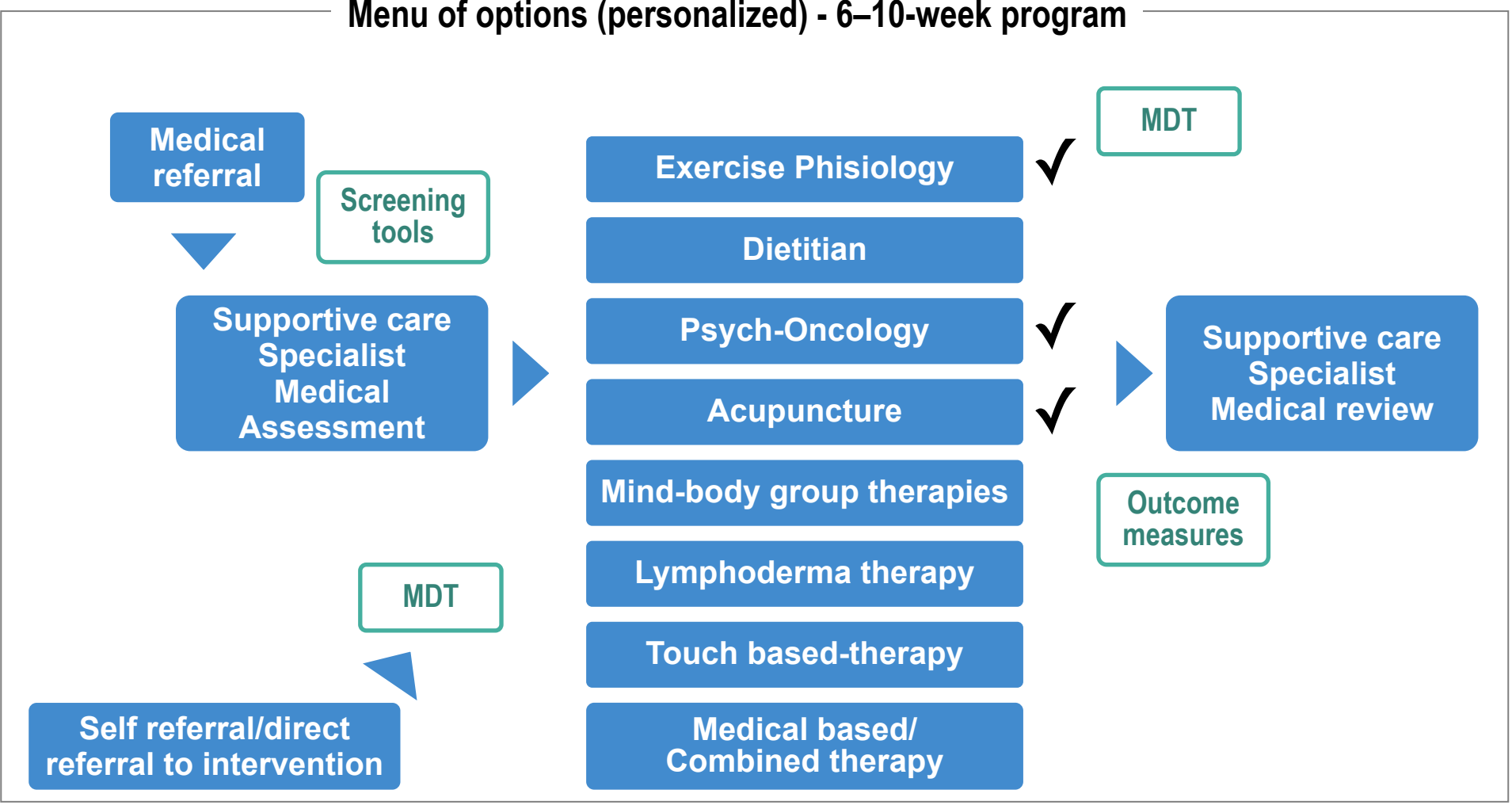


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Integrative Oncology: A model

Our enhanced supportive care model



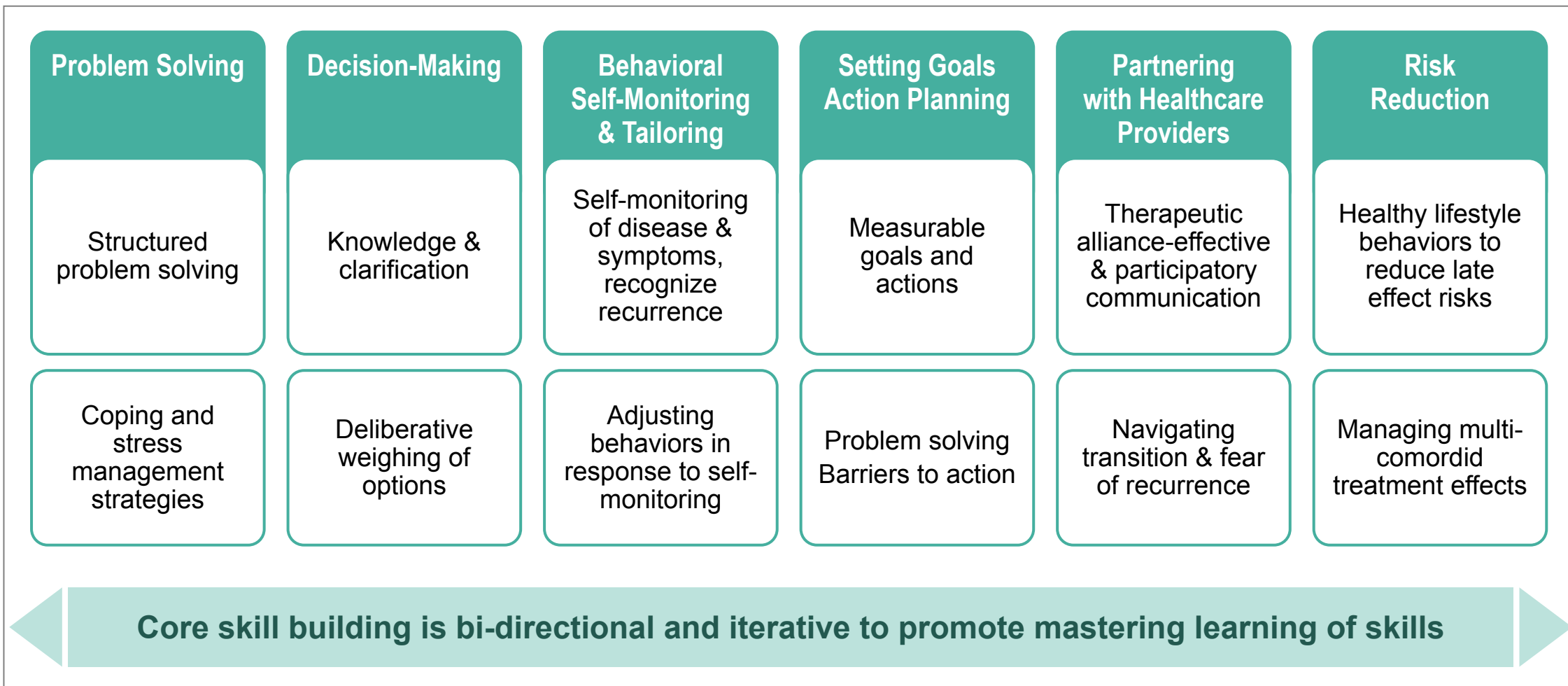
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● Self management, survival and care organisation

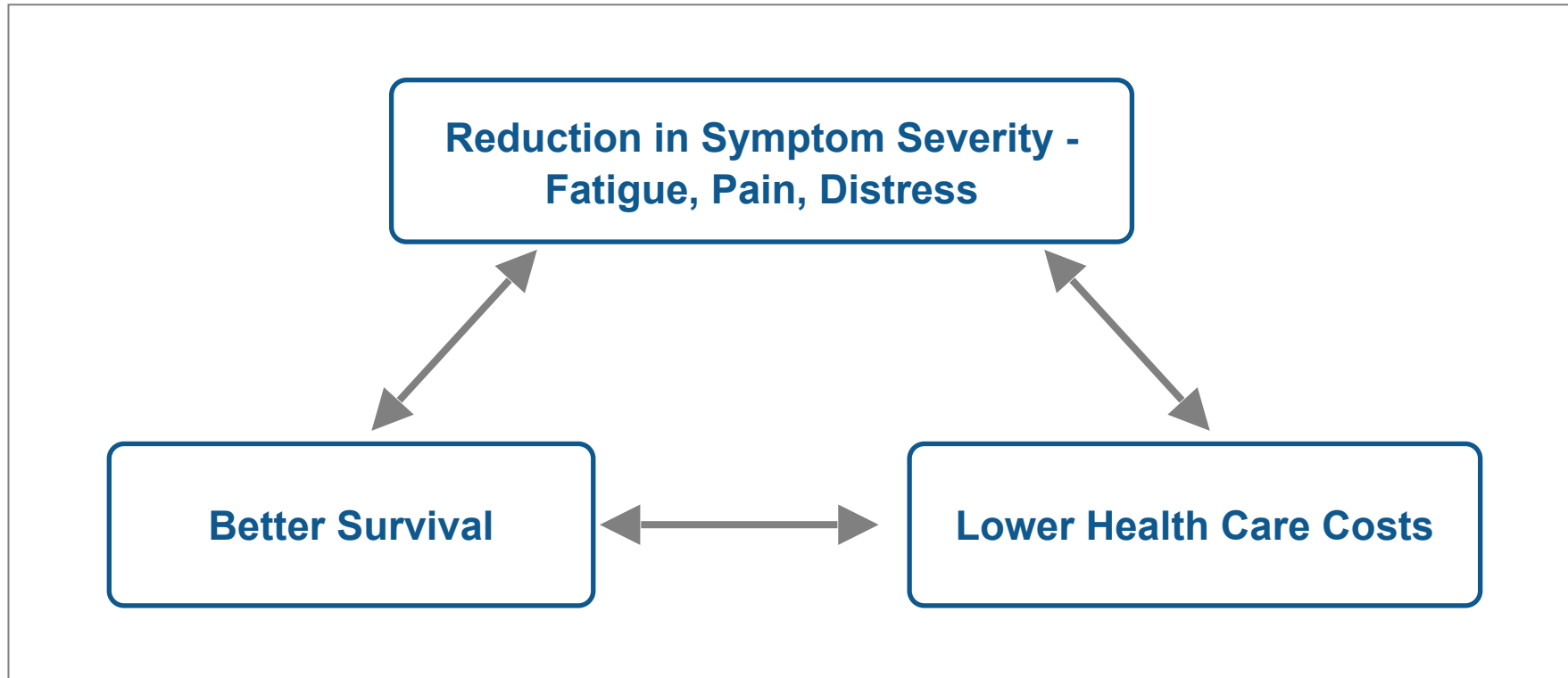
Howell D. et al. - MASCC® 2021 –Parallel Session: What Happens After Your Patient Leaves the Consulting Room - Self-Management in Cancer, Why it Matters and How Do We Make It Work? Oral Proffered Paper 1

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Building of self-efficacy and core skills for effective self-management



Self-management support = Better health outcomes



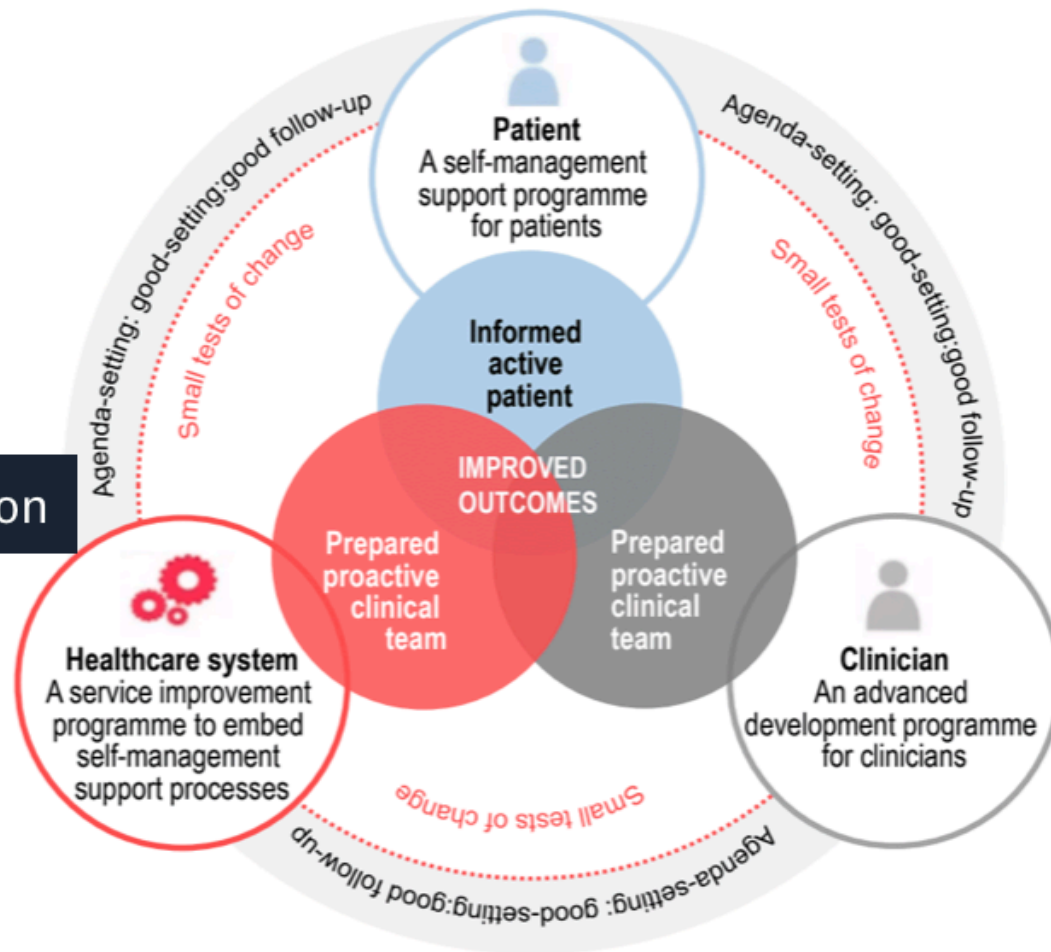
Howell et al. Supportive care in cancer 2017;25(4):1323-1355. Boland, L et al. Support Care Cancer 2018;26:1585-1595; Kim et al. OncoL Nurs Forum 2017;44(6): 719-728. Cuthbert et al. Psycho-Oncology 2019. Friedenreich. Physical Activity and Mortality in Cancer Survivors: A systematic review and Meta-Analysis. JNCI Cancer Spectr. 2019 Oct 17;4(1): Barker BMJ Quality & Safety, 2018; Demark-Wahnefried CA Cancer J Clin 2015; 65:1-54

Implementing SMS requires whole system change

Co-creating health: a self-management support programme



Select an area to comment on



SMS: Self-Management Support

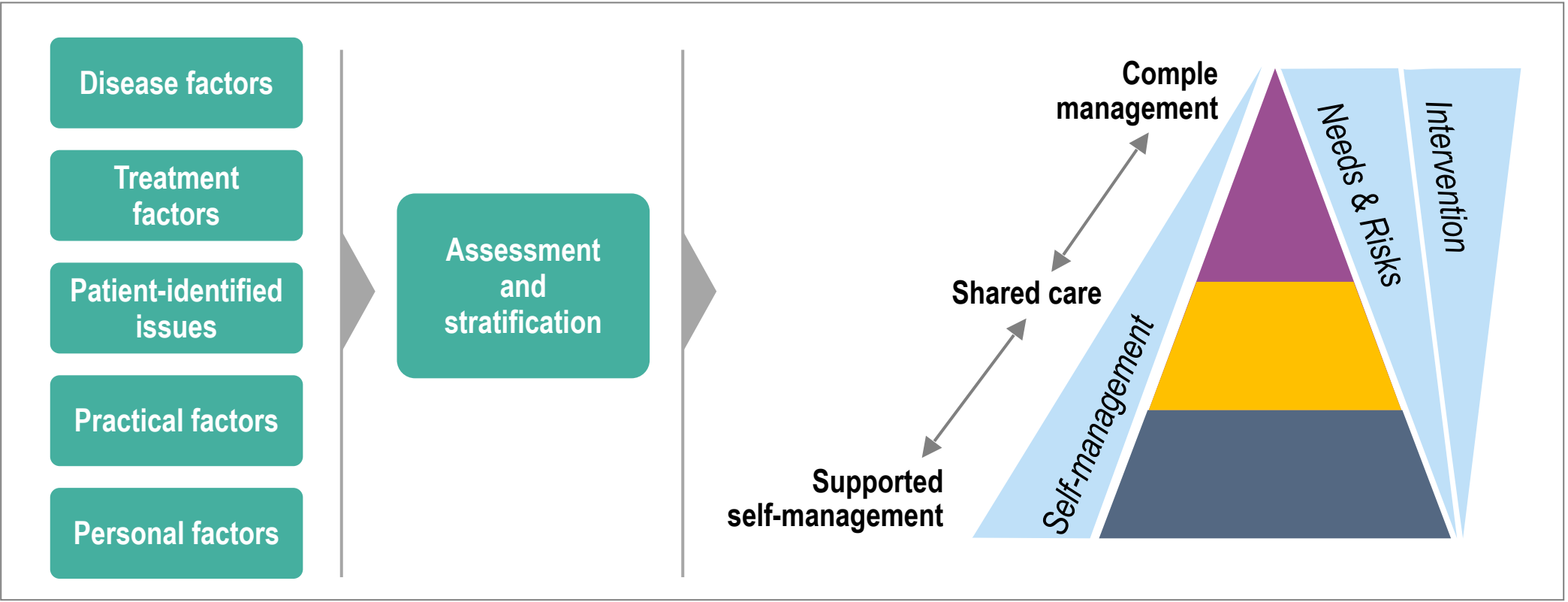
The Health Foundation. Ideas into action: person-centred care in practice. The Health Foundation, 2014.
www.health.org.uk/sites/default/files/IdeasIntoActionPersonCentredCareInPractice.pdf

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Promising practices: embedding SMS into risk-based survivorship care

Stratified/personalized pathway (based on UK model)



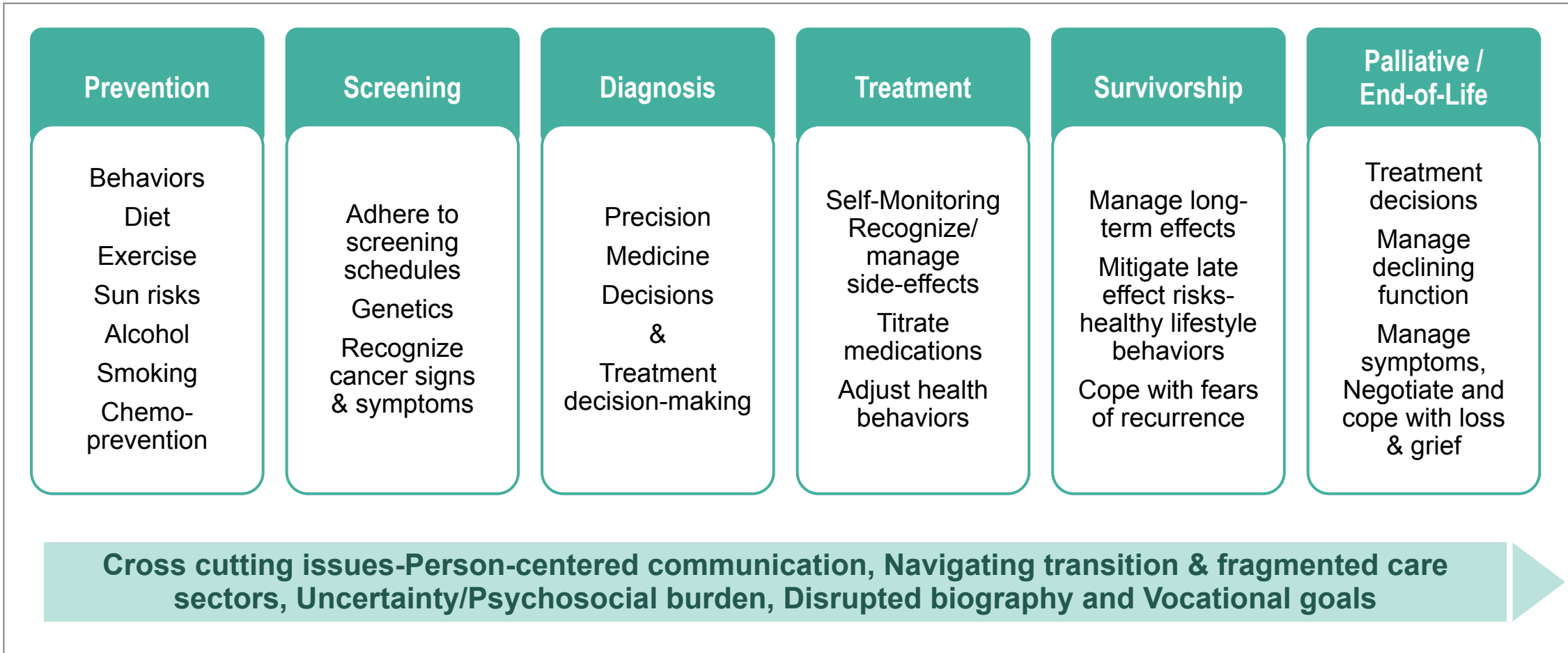
SMS: Self-Management Support

Innovation to implementation : stratified pathways of care for people living with or beyond cancer. NHS improvement, 2015. Alfano et al. Building personalized cancer follow-up care pathways in the united States: Lessons learned from implementation in England, Northern Ireland, and Australia, Am Soc Clin Oncol Educ Book. 2019 Jan; 39:625-639

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Every cancer phase is a "teachable" moment for behavior change



Thrombosis and Cancer

Anticoagulants – Bleeding and EMA Pharmacovigilance

Elalamy I *et al.* - MASCC® 2021 - Long-Term VTE-Related Complications in Cancer Patients

Prognostic relevance of PE at diagnosis

Muñoz Guglielmetti D *et al.* - MASCC® 2021 - Long-Term VTE-Related Complications in Cancer Patients

PrediCAre : Identifying the risk of thromboembolic recurrence

Scotté F. *et al.* - MASCC® 2021 - Long-Term VTE-Related Complications in Cancer Patients

● Anticoagulants – Bleeding and EMA Pharmacovigilance: Comparison of anticoagulant toxicities

Elalamy I. et al. - MASCC® 2021 - Parallel Session: Long-Term VTE-Related Complications in Cancer Patients Oral Proffered Paper 2

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Anticoagulants – Bleedings EMA's Pharmacovigilance

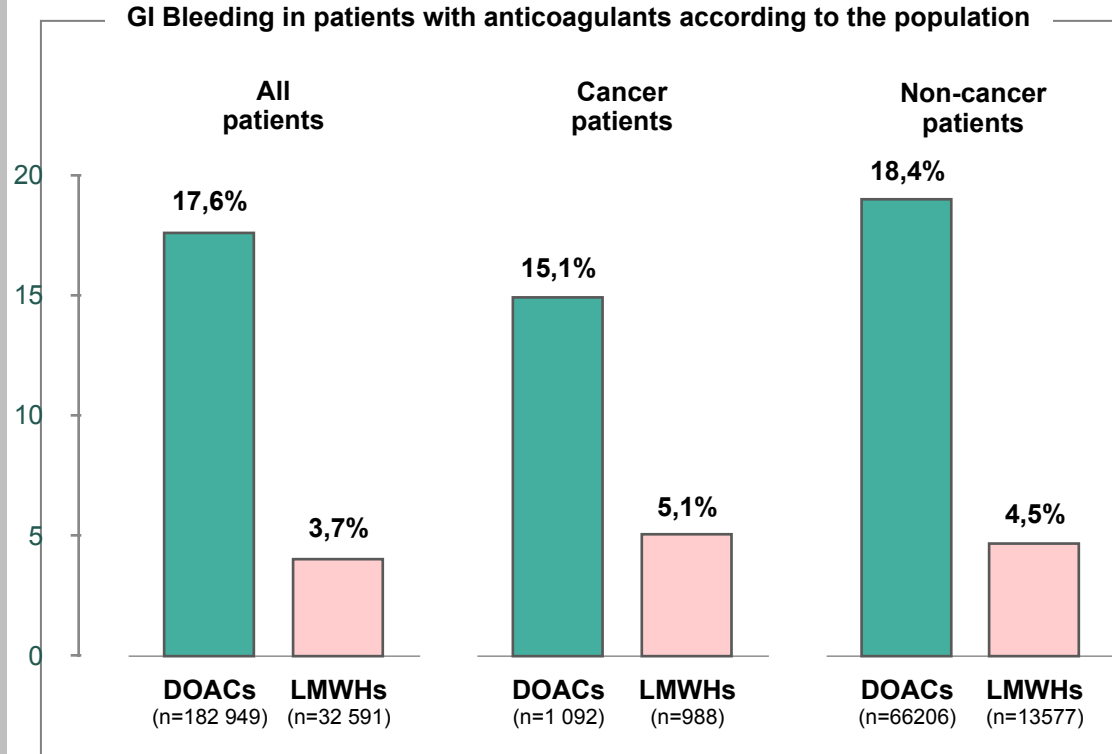
DOACs vs LMWHs comparison in all anticoagulation indications (venous and arterial)

- ▶ 216 540 cases (2080 cancer patients, 79783 non-cancer - and 134677 unknown status)
- ▶ VKA not included
- ▶ Cancer patients = patients under anticancer drug
- ▶ No data differences between major bleedings and clinically relevant non major bleedings
- ▶ No gender influence on bleedings
- ▶ LMWHs = 32591 cases
- ▶ DOACs = 183949 cases
- ▶ GI bleedings common in both cancer (10.3%) and non cancer patients (16.0%) under anticoagulation



Anticoagulants – Bleedings EMA’s Pharmacovigilance

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GI Bleedings in patients with anticoagulants

	All Patients		Cancer Patients		Non-Cancer Patients	
	DOAC N=183949	LMWHs N=32591	DOAC N=1092	LMWHs N=988	DOAC N=66206	LMWHs N=13577
GI Bleedings	32411 (17.6%)	1199 (3.7%)	165 (15.1%)	50 (5.1%)	12197 (18.4%)	606 (4.5%)
Upper GI Bleedings	3959 (2.2%)	152 (0.5%)	19 (1.7%)	14 (1.4%)	1918 (2.9%)	84 (0.6%)
Lower GI Bleedings	2798 (1.5%)	61 (0.2%)	20 (1.8%)	2 (0.2%)	1335 (2.0%)	28 (0.2%)

➤ **HBPMs seems less harming for GI bleedings than DOACs**

● Assess the prognostic relevance of the "situation" at the time of PE diagnosis.

Muñoz Guglielmetti D.et al. - MASCC® 2021 –Parallel Session: Long-Term VTE-Related Complications in Cancer Patients Oral Proffered Paper 4

Assess the Prognostic relevance of the "Setting" at PE Diagnosis

▶ 617 patients **85%** (522) outpatients vs **15%** (95) inpatients

	Outpatients	Inpatients	p value
Classification of PE			0.005
Acute symptomatic	43.5%	58.9%	
Unsuspected	56.5%	41.1%	
SBP < 100 mmHg	7.1%	11.6%	0.133
HR > 100 bpm	23%	33.7%	0.026
SpO2 < 95%	28.9%	55.8%	< 0.005
Concomitant VTE	19.5%	22.1%	0.541

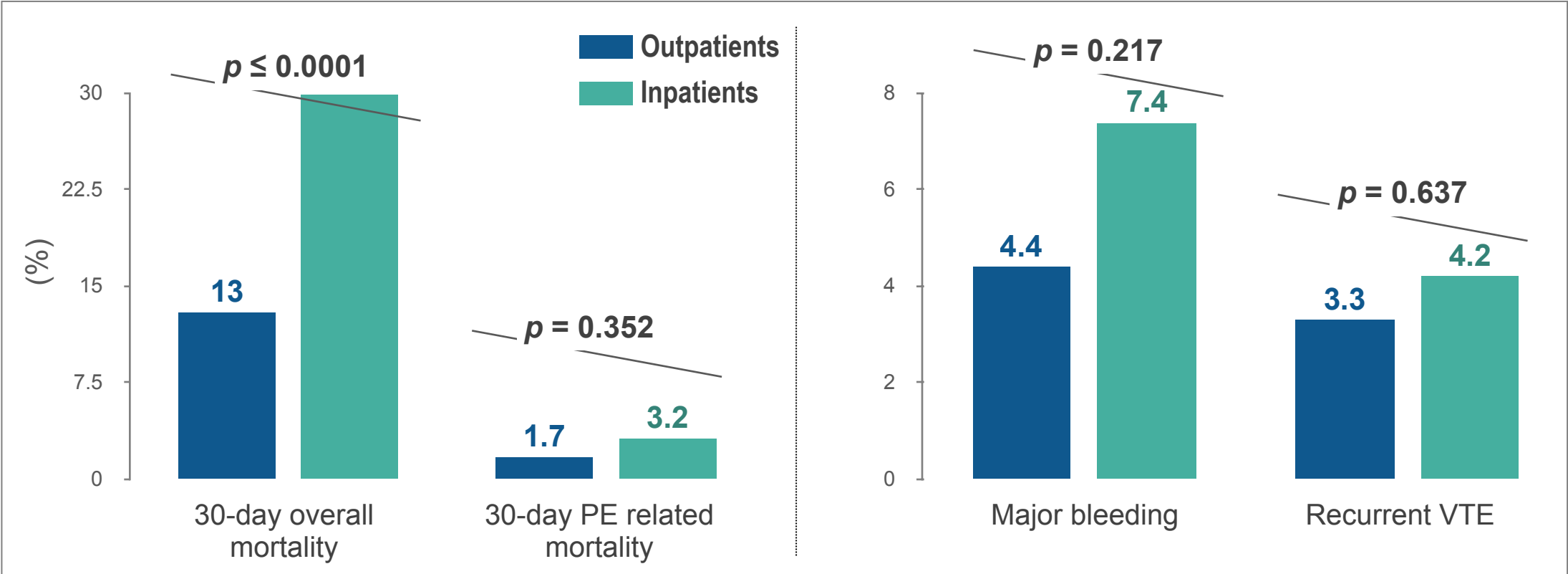
	Outpatients	Inpatients	p value
Age	66 (19-91)	64 (40-87)	0.593
Male	61%	65.3%	0.423
ECOG ≥2	13.8%	43.2%	<0.005
Cardiac failure	9%	10.5%	0.637
COPD	22.6%	30.5%	0.096
Previous VTE	13.4%	10.5%	0.442
Chemotherapy	50.1%	32.6%	0.002
Primary Tumor			0.180

➤ **HBPMs seems less harming for GI bleedings than DOACs**



Assess the Prognostic relevance of the "Setting" at PE Diagnosis

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➤ Risk Assessment Models should consider unsuspected pulmonary embolism

● PrediCAre : Identifying the risk of thromboembolic recurrence

Scotté F. et al. - MASCC® 2021 - Parallel Session: Long-Term VTE-Related Complications in Cancer Patients

PREDICARE : Identification of recurrent VTE high risk

Ottawa risk score validation in patients with CAT with curative tinzaparin

- ▶ Prospective, observational, multicenter, national (French) cohort study NCT03099031
- ▶ Follow-up visits or medical contact at 3- and 6-months post-inclusion
- ▶ Primary outcome measure: Incidence of recurrent VTE during 6-months follow-up
- ▶ Secondary objectives: Incidences of major bleeding, HIT and deaths
- ▶ Target C-statistic value ≥ 0.70 (and lower limit of 95%CI ≥ 0.65) to externally confirm the predictive value of the Ottawa score

CAT = Cancer-Associated Thromboembolism
HIT= Heparin Induced Thrombocytopenia

PREDICARE : Identification of recurrent VTE high risk

► 409 Cancer patients enrolled / 104 without 3 months follow-up (deaths)

Variable	Points
Female	1
Lung cancer	1
Breast cancer	-1
TNM stage I	-2 (-1*)
Previous VTE	1

Original Score	Recurrent VTE Risk
Low (≤ 0)	4,5%
High (≥ 1)	19,7%
Modified Score*	
Low (≤ -1)	5,1%
Intermediate (0)	9,9%
High (≥ 1)	15,8%

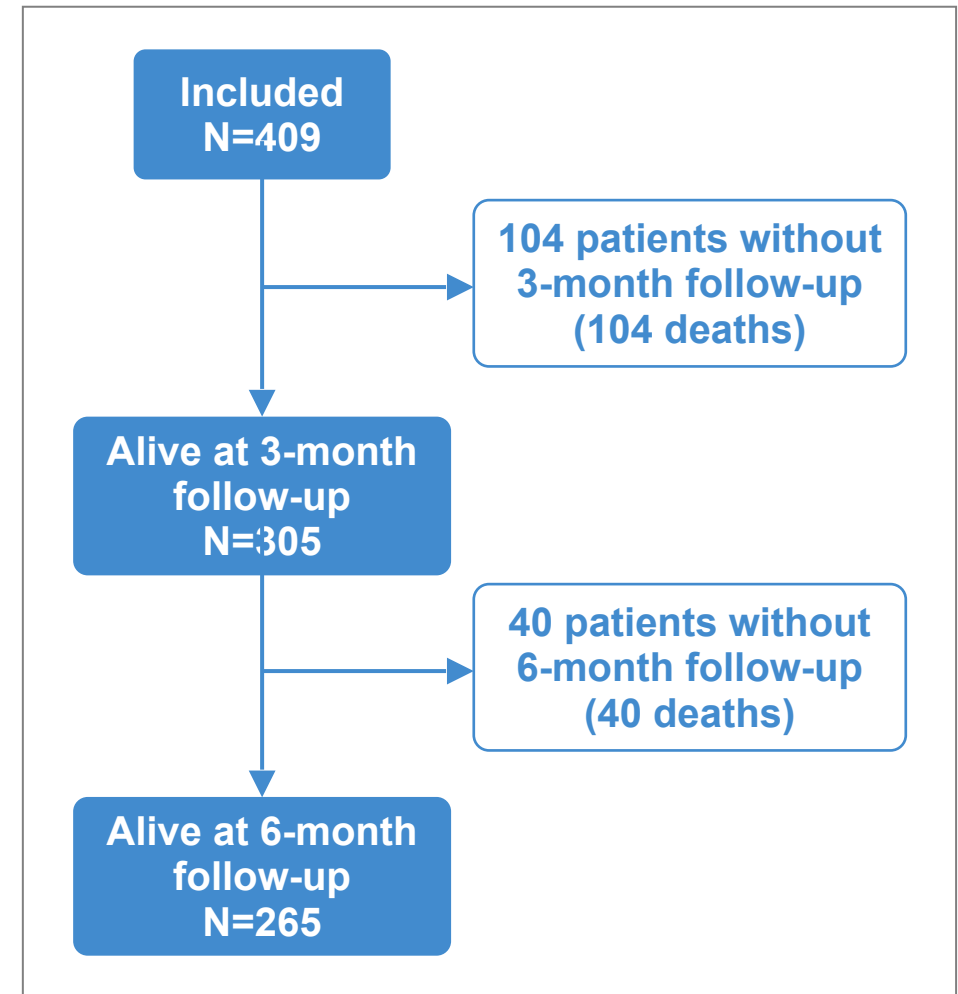
* Modified score; hematological malignancy: 0 points

Louzada et al., Circulation 2012, 26:448-454

Results

Main clinical characteristics of patients (cont.)

Qualifying VTE event	PE (with or without DVT)	247 (60.4%)
	Isolated DVT	162 (39.6%)
Isolated distal DVT		68 (16.6%)
Proximal DVT with or without distal DVT		94 (23.0%)
Symptomatic VTE		271 (66.3%)
Ottawa score	Low (≤ 0)	168 (42%)
	High (≥ 1)	232 (58.2%)
Modified Ottawa score	Low (≤ -1)	33 (8.3%)
	Intermediate ($= 0$)	148 (37.0%)
	High (≥ 1)	219 (54.8%)

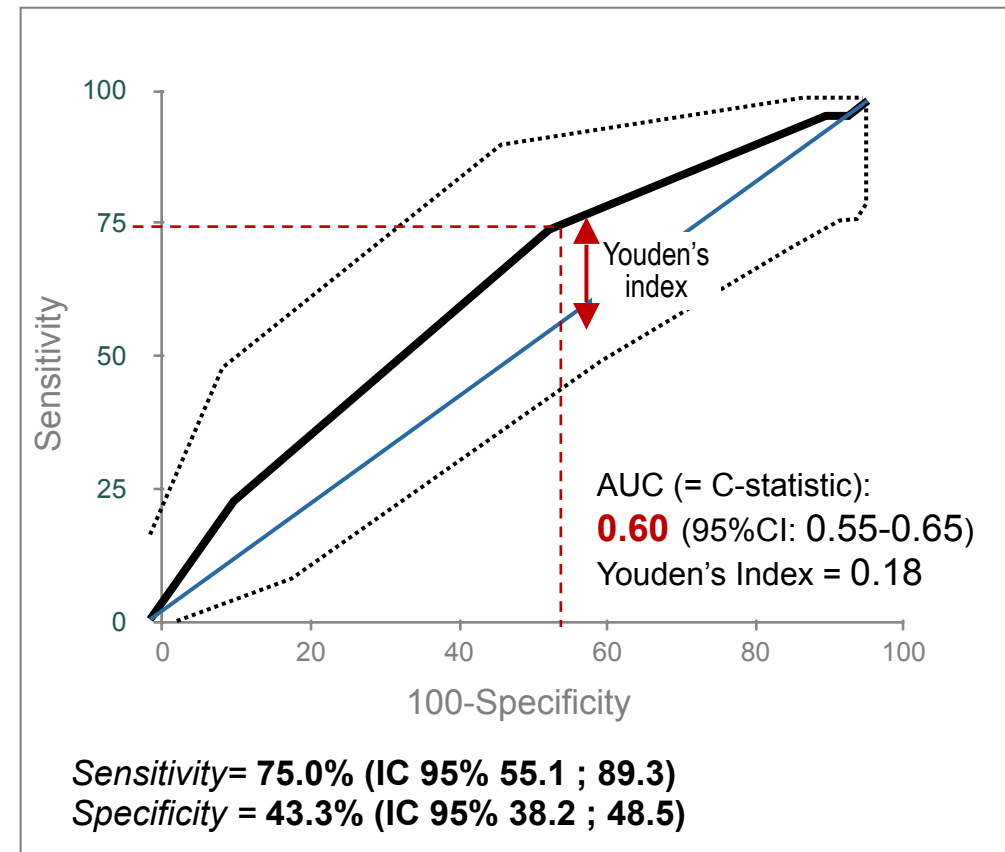


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Results

Recurrent VTE at 6 months		
Total (cumulated incidence)	PE (with or without DVT)	28 (7.3%)*
Fatal PE		15
Isolated DVT		5
Isolated distal DVT		13
Proximal DVT with or without distal DVT		4
Symptomatic VTE		11
Ottawa score	Low (≤ 0)	4.2% (1.7-8.4)*
	High (≥ 1)	9.1% (6.1-13.6)*
Modified Ottawa score	Low (≤ 1)	8.9% (2.9-27.4)*
	Intermediate (=0)	4.4% (1.8-11.2)*
	High (≥ 1)	9.2% (6.0-14.1)*

Primary Objective AUC > 0.7 unreachable



➤ **HBPMs seems less harming for GI bleedings than DOACs**

Pain / Palliative Care / End of Life

Ethical dilemma at the end of life

Tuca A. *et al.* - MASCC® 2021 - Parallel Session: Making Ends Meet: Ethics of Care at Opposite Ends of the Spectrum Oral Proffered Paper 1

Causes of death of cured cancer patients

Koczwara B. *et al.* - MASCC® 2021 - Parallel Session: President Pick's, Oral Proffered Paper 6

Levorphanol as a Second Line Opioid

Reddy A. *et al.* - MASCC® 2021 - Parallel Session: President Pick's, Oral Proffered Paper 2

● Prevalence of ethical dilemmas in the end-of life process of advanced cancer patients

*Tuca et al. - MASCC® 2021 – OPP1 - Parallel Session: Making Ends Meet:
Ethics of Care at Opposite Ends of the Spectrum*

Ethical dilemmas: conflict in decision including the need to choose between morally acceptable opposing options

A cross sectional, multicenter study

► **Principal Outcome** : prevalence of ethical dilemmas

Eligible advanced cancer patients with expected survival \leq 6 months (N=324)

Hospital	181 (55.8%)	N without ethical dilemma	234 (72.2%)
Palliative Care Home Teams	71 (22.9%)	N with \geq 1 ethical dilemma	90 (27.8%)
Medium-long-term stay units	44 (13.6%)		
Primary Care	8 (8.6%)		

Ethical dilemmas: conflict in decision including the need to choose between morally acceptable opposing options

A cross sectional, multicenter study

Prevalence of ethical dilemmas by categories	N	%	p
≥ 1 ethical dilemma	90	27.8%	
Number of ethical dilemma	117	mean 1.3/patient	
By patient characteristics	N	%	p
Male	67	66.7%	<0.002
Chemotherapy	55	61.1%	<0.035
Psychological distress	66	73.3%	<0.001
Functional impairment	53	59.9%	0.091

Ethical dilemmas: conflict in decision including the need to choose between morally acceptable opposing options

A cross sectional, multicenter study

Prevalence of ethical dilemmas by categories	N	%
Conflict associated to information	51	15.7
Therapeutic proportionality, discrepancies	54	16.7
<ul style="list-style-type: none">• Within the family	26	8.0
<ul style="list-style-type: none">• Between health team and patient or family	14	4.3
<ul style="list-style-type: none">• Within care team	12	3.7
<ul style="list-style-type: none">• Respect with withdrawall life-support	2	0.6
Conflicts associated with expected outcome of clinical trails	8	2.5
Request of euthanasia or medical assisted suicide	4	1.2

● **What do Cancer Survivors Die of :** **An Australian Population-based Study of** **Patters of Late Mortality after Cancer.**

Koczwara B. et al. - MASCC® 2021 - OPP 6 - Parallel Session: President's Pick

Survivors causes of Death

South Australian Cancer Registry Data

Cause of death	Freq	%
Overall		
Ischemic heart disease	2393	15.7
Malignant neoplasm of prostate	1424	9.3
Cerebrovascular disease	1175	7.7
Malignant neoplasm of breast	1118	7.3
Malignant neoplasm of lymphoid, hematopoietic and related tissue	1078	7.07
Females		
Malignant neoplasm of breast	1112	17.1
Ischemic heart disease	940	14.5
Cerebrovascular disease	546	8.4
Dementia and Alzheimer disease	466	7.2
Malignant neoplasm of lymphoid, hematopoietic and related tissue	463	7.1
Males		
Ischemic heart disease	1453	16.6
Malignant neoplasm of prostate	1424	16.3
Cerebrovascular disease	629	7.2
Malignant neoplasm of lymphoid, hematopoietic and related tissue	615	7.0
Malignant neoplasm of trachea, bronchus and lung	519	5.9

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SMRs vary by sex, age at diagnosis and cancer type

CVD major cause of competing mortality with higher than expected SMR

Variable	Overall	Cardiovascular disease
overall	1.24	1.42
sex : male	1.34	1.69
female	1.11	1.17
age at diagnosis (years)		
0-14	16.14	-
15-40	5.59	61.85
40-49	4.6	20.33
50-59	3.48	13.12
60-69	2.49	4.87
70-79	1.06	1.59
≥80	0.48	0.57
First cancer site : lung	2.42	3.27

CVD major cause of competing mortality with higher than expected SMR

CVD= Cardio Vascular disease
SMR= Standardized Mortality Ration

● Levorphanol as a Second Line Opioid in Cancer Patients Presenting to an Outpatient Supportive Care Center: An Open-Label Study

Reddy A. - MASCC® 2021 - President Pick's, Oral Proffered Paper 2

Levorphanol : a new option for opioid rotation ?

Pharmacology

- ▶ « Old drug » approved in US in the 1950s
 - Agonist of opioid receptors mu, kappa and delta
 - NMDA receptor antagonist
 - Serotonin reuptake inhibitor

- ▶ Can be used orally, IV and sub-cutaneously
 - Short onset of action PO (30 minutes)
 - Half-life 11 to 16 h, steady state in 3 days

- ▶ 6 to 8 times more powerful than morphine

Levorphanol : a new option for opioid rotation ?

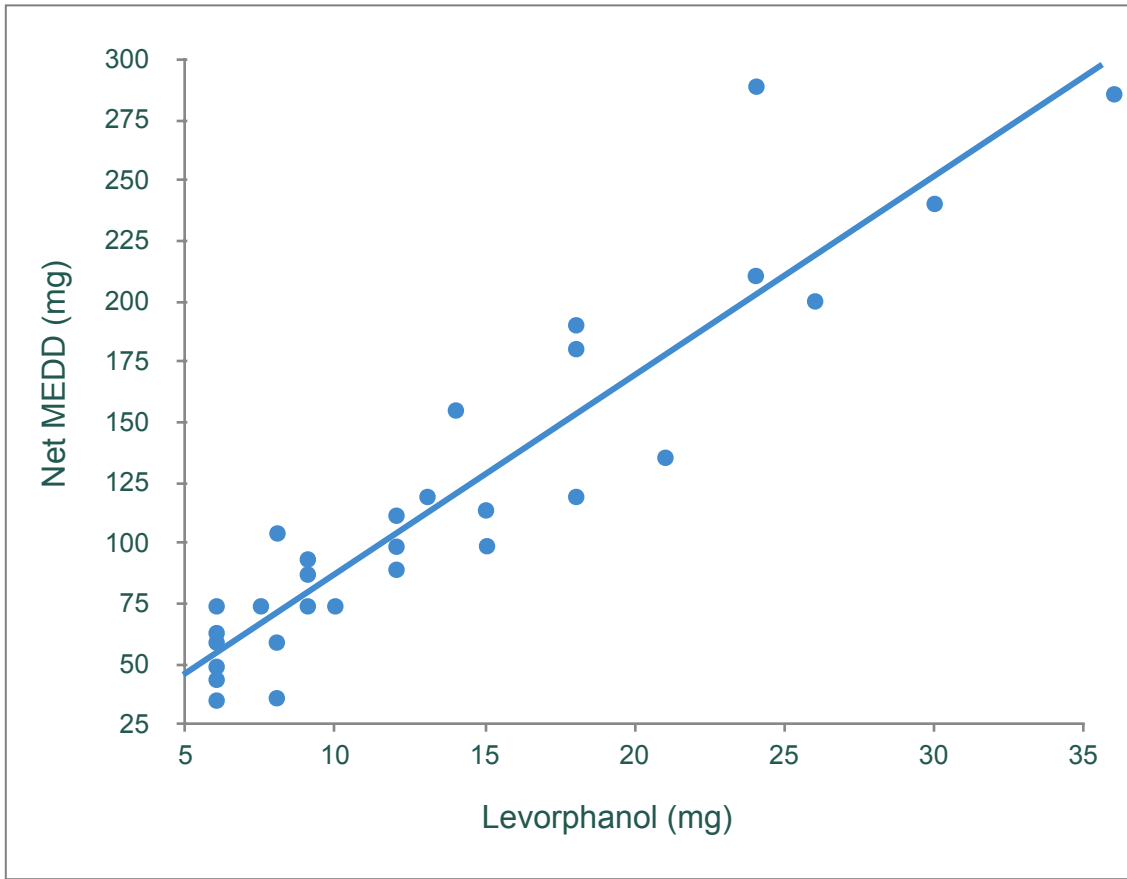
Pilot study: assess feasibility and define opioid rotation ratio

- ▶ 40 patients, adults, already treated by strong opioid
 - Ambulatory patients, follow-up by phone.
- ▶ Levorphanol was given orally /8h ATC
 - Initial ratio morphine equivalent daily dose (MEDD)/10
 - Breakthrough pain also treated by Levorphanol.
- ▶ Rotation was possible for 33 patients
 - Tolerance was good
- ▶ Opioid rotation ratio of 8.5.



Levorphanol: a new option for opioid rotation?

- ▶ There is a strong correlation between MEDD (Morphine Equivalent Daily dose) and daily dose of Levorphanol
- ▶ Levorphanol could be an option for opioid rotation
 - Confirmation by prospective randomized trials is required
 - Should be tested in neuropathic pain, according to pharmacological profile



Linear Regression of daily Levorphanol Dose according to MEDD

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Nausea and Vomiting

Olanzapine vs Metoclopramide and refractory CINV in paediatrics

Vishwajeeth Pet *et al.* - MASCC® 2021 - Parallel Session: Making Ends Meet: Ethics of Care at Opposite Ends of the Spectrum Oral Proffered Paper 1

The importance of recommendations

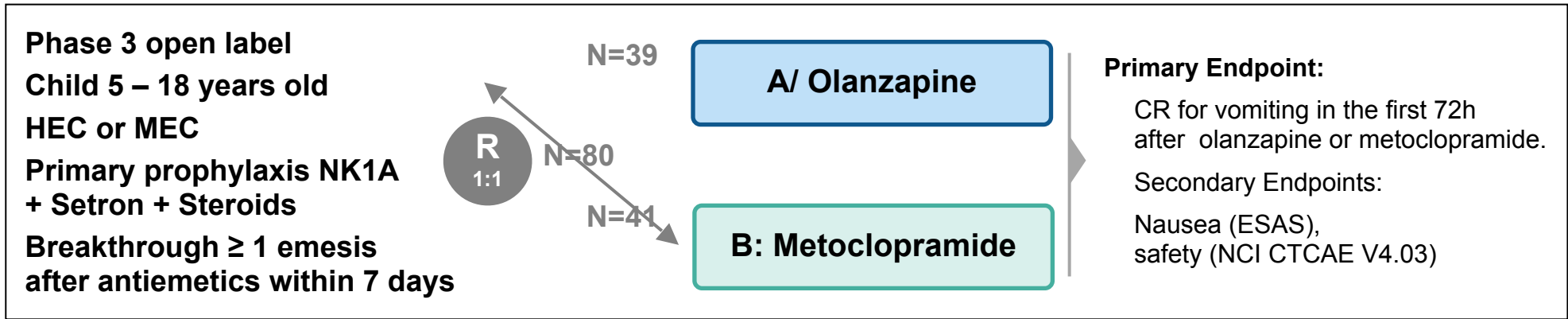
Koczwara B.*et al.* - MASCC® 2021 - Parallel Session Fake news and real news Oral Proffered Paper 2

● Chemotherapy Induced Nausea and Vomiting:

Vishwajeeth P. et al. - MASCC® 2021 - Parallel Session Fake news and real news Oral Proffered Paper 2

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Olanzapine vs Metoclopramide in pediatric breakthrough CINV



Drug doses

Olanzapine:

- 10-20 kg: 2.5 mg OD po
- > 20 kg: 5 mg OD po

Metoclopramide:

- 10-35 kg: 0.15mg/kg/dose Q8h po
- > 35 kg/ 14 ys: 10 mg Q8h po

Grade of Vomiting

Grade	Severity of vomiting
0	No vomiting
1	1-2 episodes in 24h
2	3-5 episodes in 24h
3	≥ 6 episodes in 24h, tube feeding, hospitalization
4	Life threatening consequences, urgent intervention

CINV= Chemotherapy Induced Nausea and Vomiting
 HEC= high emetogenic chemotherapy
 MEC= Moderate emetogenic chemotherapy
 OD= Once Daily
 CR= Complete Response

Olanzapine vs Metoclopramide in pediatric breakthrough CINV

CR for vomiting

	Olanzapine	Metoclopramide	<i>P-value</i>
0 = CR	28 (71.8%)	16 (38.2%)	0.003
Grade 1	9 (23%)	15 (36.5%)	
Grade 2	2 (5.1%)	3 (7.3%)	
Grade 3	0 (0%)	7 (17%)	

CR for nausea

	Olanzapine	Metoclopramide	<i>P-value</i>
0 = CR	23 (59%)	14 (34.1%)	0.022
Grade 1	14 (35.8%)	24 (58.5%)	
Grade 2	2 (5.1%)	3 (7.3%)	
Grade 3	0 (0%)	0 (0%)	

Cross over due to grade 3 or 4 vomiting

Cross over rates	Olanzapine	Metoclopramide	<i>P-value</i>
YES	0 (0%)	7 (17%)	0.003
NO	39 (100%)	34 (83%)	

Safety :

- Drowsiness Olanzapine > p=0.0004

➤ Olanzapine > Metoclopramide in pediatrics 5 - 18 years

● Nausea and vomiting: The importance of recommendations

Aapro M. et al. - MASCC® 2021 - Parallel Session

Guidelines definition

Chemotherapy	Acute phase (day 1)	Delayed phase (days 2-5)
Non-AC HEC	5-HT ₃ RA + DEX + NK ₁ RA	DEX or (if APR 125mg for acute: either MCP + DEX or APR + DEX)
AC HEC	5-HT ₃ RA + DEX + NK ₁ RA	None or (if APR 125mg for acute: DEX or APR)
Carboplatin	5-HT ₃ RA + DEX + NK ₁ RA	None or (if APR 125mg for acute: APR)
MEC	5-HT ₃ RA + DEX	No routine prophylaxis

AC : Anthracycline/cyclophosphamide; HEC : highly emetogenic chemotherapy; MEC : moderately emetogenic chemotherapy; DEX : dexamethasone (=any corticosteroid); APR : aprepitant; MCP : metoclopramide

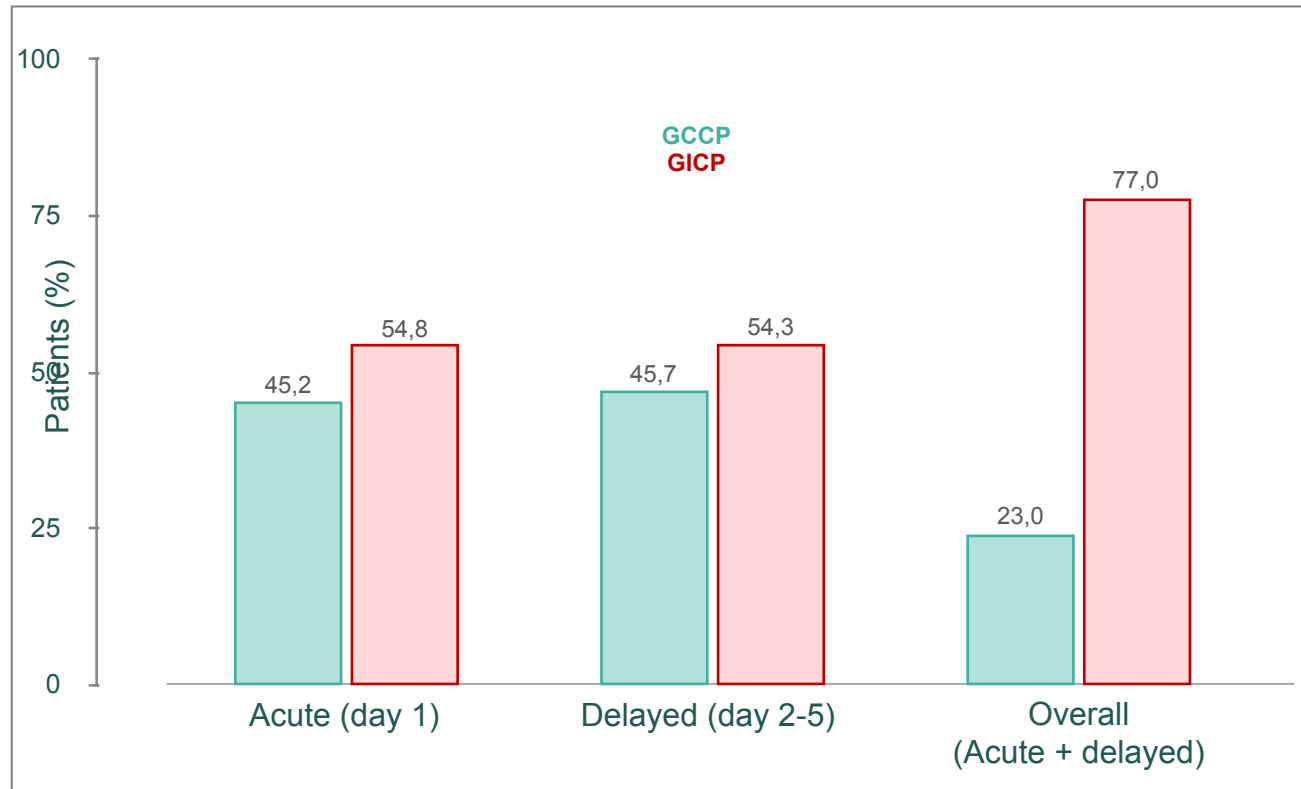
Patient characteristics

Characteristics	Overall (n=1089)	GCCP (n=251)	GICP (n=838)
Gender			
- Male	277 (25,4%)	54 (21,5%)	223 (26,6%)
- Female	812 (74,6%)	197 (78,5%)	615 (73,3%)
Age (years)			
- Median (IQR)	59,1 (48,3-66,7)	58,4 (47,9-65,1)	59,3 (48,5-67,3)
ECOG			
- 0	337 (61,2%)	157 (62,5%)	510 (60,9%)
- 1	407 (37,4%)	89 (35,5%)	318 (37,9%)
- 2	15 (1,4%)	5 (2,0%)	10 (1,2%)
Primary cancer diagnosis (>5%)			
- Breast	502 (46,1%)	122 (48,6%)	380 (45,3%)
- Lung	144 (13,2%)	45 (17,9%)	99 (11,8%)
- Colorectal	90 (8,3%)	25 (10,0%)	65 (7,8%)
- Ovarian	87 (8,0%)	17 (6,8%)	70 (8,4%)
- Urogenital	73 (6,7%)	11 (4,4%)	62 (7,4%)
- Hematological	67 (6,2%)	7 (2,8%)	60 (7,2%)
- Gastrointestinal tract	68 (6,2%)	16 (6,4%)	52 (6,2%)
Prior chemotherapy			
- Naive	531 (48,8%)	128 (51,0%)	403 (48,1%)
- Non-naive	558 (51,2%)	123 (49,0%)	435 (51,9%)

GCCP : guideline-consistent CINV prophylaxis; GICP : guideline-inconsistent CINV prophylaxis; IQR :interquartile range



Percentage of all patients receiving GCCP vs GICP



GCCP : guideline-consistent CINV prophylaxis; GICP : guideline-inconsistent CINV prophylaxis

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Complete Response (No emesis/No rescue use) rates by guidelines consistency

	Proportion of patients who received :		Overall (0-120h) cycle 1 Complete response rate	
	GCCP	GICP	GCCP	GICP
All patients (n=1089)	251/1089 (23,0%)	838/1089 (77,0%)	156/251 (62,2%)*	441/838 (52,6%)
HEC : Non-AC +AC (n=708)	166/708 (23,4%)	542/708 (76,6%)	100/166 (60,2%)*	259/542 (47,8%)
MEC (n=189)	61/189 (32,3%)	128/189 (67,7%)	45/61 (73,8%)*	74/128 (57,8%)

**Statistically significant difference (p<0,05, chi-square test) between GCCP vs GICP group
 AC : Anthracycline/cyclophosphamide; HEC : highly emetogenic chemotherapy; MEC : moderately emetogenic chemotherapy
 GCCP : guideline-consistent CINV prophylaxis; GICP : guideline-inconsistent CINV prophylaxis; IQR :interquartile range*

Immune mediated toxicities

Connectivitis with skin involvement associated with IT


Bui A-T. *et al.* - MASCC® 2021 - Parallel Session Challenges in the Management of Patients Undergoing Immunotherapy Oral Proffered Paper 2

Using PROs to diagnose adverse effects

Pappot H. *et al.* - MASCC® 2021 - Parallel Session: Challenges in the Management of Patients Undergoing Immunotherapy, Oral Proffered Paper 1

Multidisciplinary approach to endocrine toxicities

Sbrana A. *et al.* - MASCC® 2021 - Parallel Session Endocrine and Menopausal Symptom Management



Cutaneous Connective Tissue Disease Temporally Associated with Immune Checkpoint Inhibitor Therapy: A Retrospective Analysis

Bui A-T. et al. - MASCC® 2021 – OPP2 – Parallel session

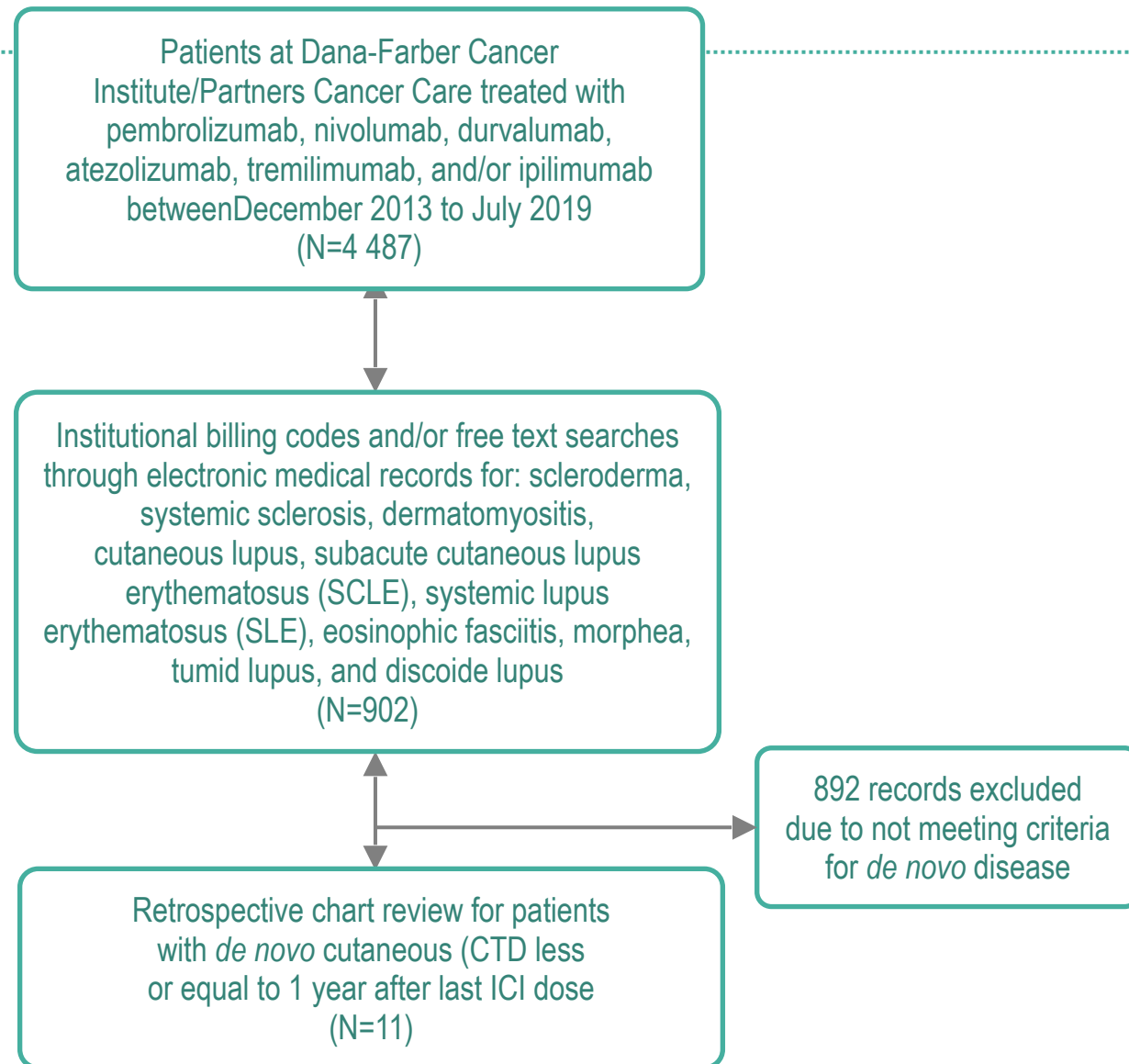
Method and design

A retrospective cohort study

- **Study objectives :**
to evaluate the frequency of IO-associated *de novo* cutaneous CTD and report clinical features and management

- Scleroderma
- Systemic sclerosis
- Dermatomyositis
- Cutaneous lupus (acute and chronique)
- Subacute cutaneous lupus erythematosus
- Eosinophilic fasciitis
- Discoide and tumid lupus

CTD : Connective Tissue Disease; IO: Immuno-Oncology therapy



Results

A retrospective cohort study

- ▶ A total of 4,487 patients received IO between December 2013 and July 2019 in Dana-Farber Cancer Institute and Mass General Brigham
- ▶ 11 patients had confirmed IO-associated cutaneous CTD (0.025%)

Cutaneous CTD	N	Treatments	Skin responses	IO interruption
SCLE	8 (72.7%)	Topical corticosteroids, antihistamines, photoprotection and for 3 patients hydroxychloroquine	6 PR, 1 CR, 1 N/R	For 4 patients temporarily
SLE	1 (9.1%)	Topical corticosteroids, photoprotection	N/R	Not interrupted by SLE but previously for colitis
EF	1 (9.1%)	Topical corticosteroids, natural UV light, physical therapy	PR	None
Dermatomyositis	1 (9.1%)	Systemic steroids, topical corticosteroids, topical tacrolimus, hydroxychloroquine	PR	Permanently

CTD : Connective Tissue Disease; IO: Immuno-Oncology therapy ; SCLE : Subacute cutaneous lupus erythematosus ; SLE : Systemic lupus erythematosus ; EF : eosinophilic fasciitis ; PR : partial response ; CR : complete response ; N/R : not reported

● The Use Of Patient-Reported Outcomes To Detect Adverse Events In Metastatic Melanoma Patients Receiving Immunotherapy: A Randomized Controlled Trial

Pappot H - MASCC® 2021 -Challenges in the Management of Patients Undergoing Immunotherapy, Oral Proffered Paper 1

Evaluation of PRO to detect adverse events in patients receiving immunotherapy for melanoma

Clinical Study

- ▶ Value of PRO (patient Reported Outcomes programs) is well established for patients with chemotherapy or targeted therapies
- ▶ Specific toxicities with checkpoint inhibitors (anti PD1/PDL1, anti CTLA4)
 - Almost all organs can be involved
 - Non-specific symptoms and presentation
 - Impossible to predict
- ▶ Prospective randomized trial
 - 146 patients
 - Immunotherapy in adjuvant or metastatic setting
 - Usual follow-up : physician consultation / 3 weeks
 - Follow-up with PRO: patients report symptoms on tablet once a week, analyses made with physician during consultation / 3weeks

Evaluation of PRO to detect adverse events in patients receiving immunotherapy for melanoma

Results:

- ▶ No benefit on side effect incidence or severity
- ▶ No impact on non-scheduled consultations
- ▶ Important reduction of phone calls

➤ **This study does not show a benefit for the use of PRO in patients undergoing immunotherapy for melanoma**

➤ ***Maybe the choice of the symptoms reported or their analysis every 3 weeks explain these findings.***

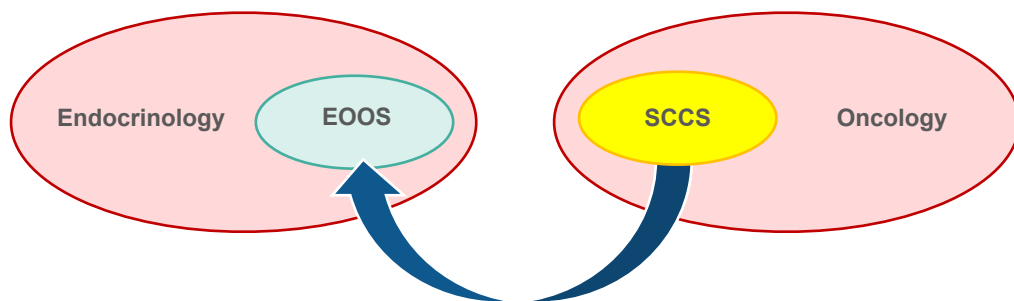


Multidisciplinary Treatment of Endocrine Toxicities from Targeted Therapy and Immunotherapy : An Integrated Management Model

Sbrana A. et al. - MASCC® 2021 – OPP1 – Parallel session

Multidisciplinary Treatment of Endocrine Toxicities from Targeted Therapy and Immunotherapy

An Integrated Management Model



Oncological characteristics	
Primary site of tumor	N (%)
Lung cancer	31 (32,98%)
Genitourinary cancers	27 (28,72%)
Melanoma	18 (19,15%)
Other	18 (19,15%)
<i>All patients were affected by advanced/metastatic disease</i>	
Line of treatment	
First	43 (45,74%)
Second and later	51 (54,26%)
Cancer therapy	
ICI	79 (84,04%)
TKI	15 (15,96%)

EOOS : endocrino oncology outpatient service ; SCCS : supportive care in cancer service

Multidisciplinary Treatment of Endocrine Toxicities from Targeted Therapy and Immunotherapy

An Integrated Management Model

- ▶ Endocrine toxicities :
 - 51 (54,26%) patients developed any-grade ET

- ▶ Oncology treatment :
 - How we behave ?

Endocrine Toxicities	
Thyroid dysfunction	46 (90,2%)
- Hypothyroidism	44 (86,28%)
- Hyperthyroidism	2 (3,92%)
Adrenal insufficiency	3 (5,88%)
Hypophysitis	2 (3,92%)
Endocrine Severity	
G1-G2	44 (86,27%)
G3-G4	7 (13,73%)

Oncology treatment	
Dose reduction	4 (7,84%)
Temporary interruption	13 (25,49%)
Permanent discontinuation	1 (1,96%)
Hormone replacement therapy	49 (96,08%)
Corticosteroids	13 (25,49%)
- Oral	9 (17,55%)
- Intravenous	4 (7,84%)

ET : endocrine toxicity

COVID-19

The impact of the Covid-19 pandemic on oncology activity

Manzano J. *et al.* - MASCC® 2021 - The Impact of COVID-19 on Supportive Care - Session 1

Vaccine and antibodies in the prevention of SARS-COV-2

Verschoor C. *et al.* - MASCC® 2021 - ISOO Parallel Session 2

COVID-19, thrombosis and breast cancer

Illarramendi J. *et al.* - MASCC® 2021 - Parallel session The Impact of COVID-19 on Supportive Care - Session 1 Oral Proffered Paper 3

Mortality in cancerology

Kuderer N *et al.* - MASCC® 2021 - Parallel Session The Impact of COVID-19 on Supportive Care - Session 1

● The impact of the Covid-19 pandemic on oncology activity: Italian experience

Manzano J. et al. - MASCC® 2021 - Parallel Session: The Impact of COVID-19 on Supportive Care - Session 1

The impact of COVID-19 pandemic on oncology workload in an Italian reference cancer center

Results

	Feb-May 2019	Feb-May 2020	Difference
New patient referrals	503	474	-29 (-6%)
First consultations	470	457	-13 (-3%)
New therapy assignments	777	755	-22 (-3%)
Treatment prescription visits	4036	3938	-98 (-2%)
Therapy administrations	5884	5856	-28 (0%)
Disease re-assignment visits	1158	1081	-77 (-7%)
Follow-up visits	1995	984	-1011 (-51%)
Tele-examinations	0	741	
Unplanned presentations	629	479	-150 (-24%)

Hospitalization characteristic

- ▶ Mean LOS = 11,2 days (median 6 days, min 0 – max 87)
- ▶ ICU events = 24% (Mean LOS=21 days)
- ▶ Discharge disposition = 81% discharge home/home with service

COVID hospitalization outcomes

Severe Disease = 25%

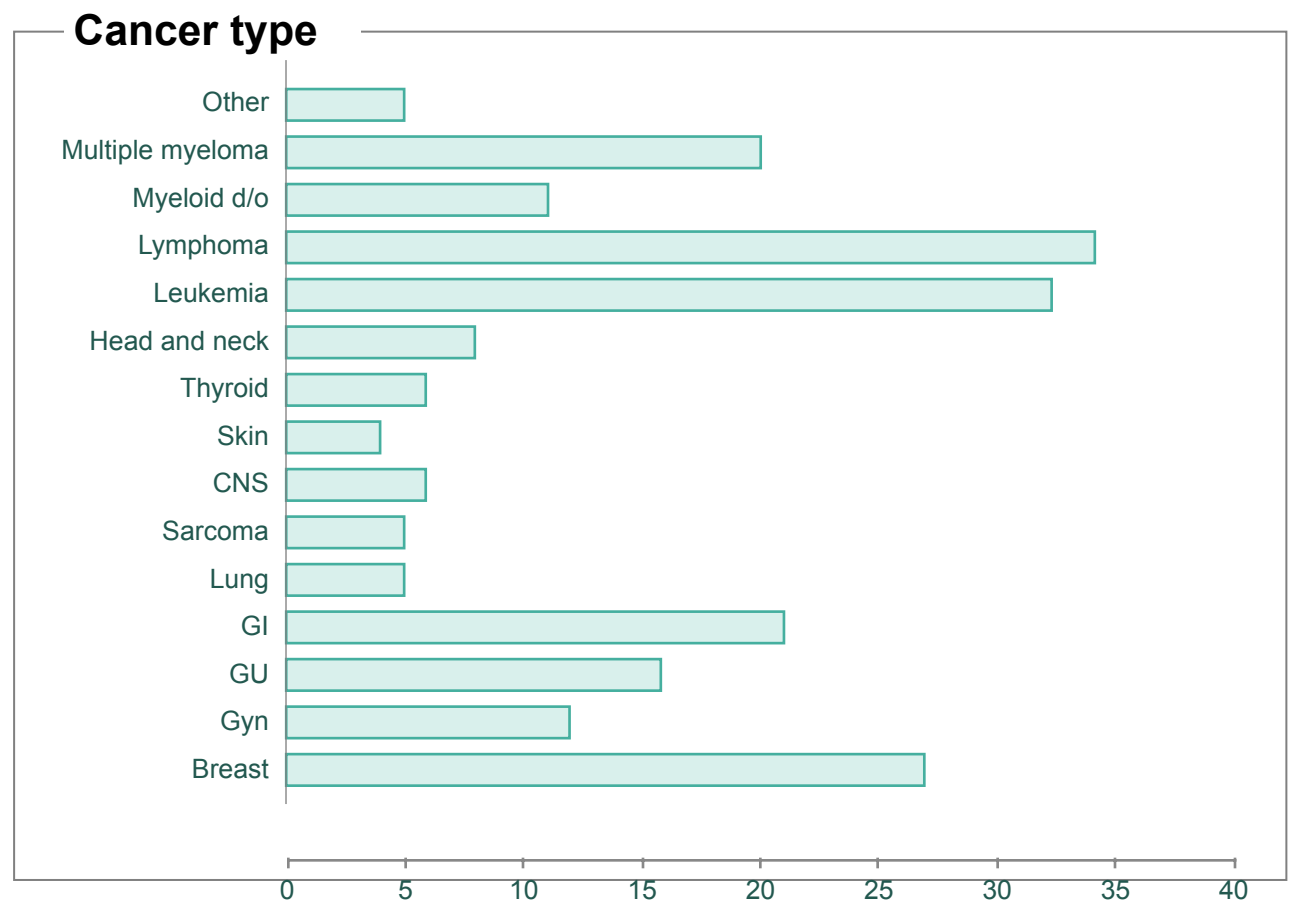
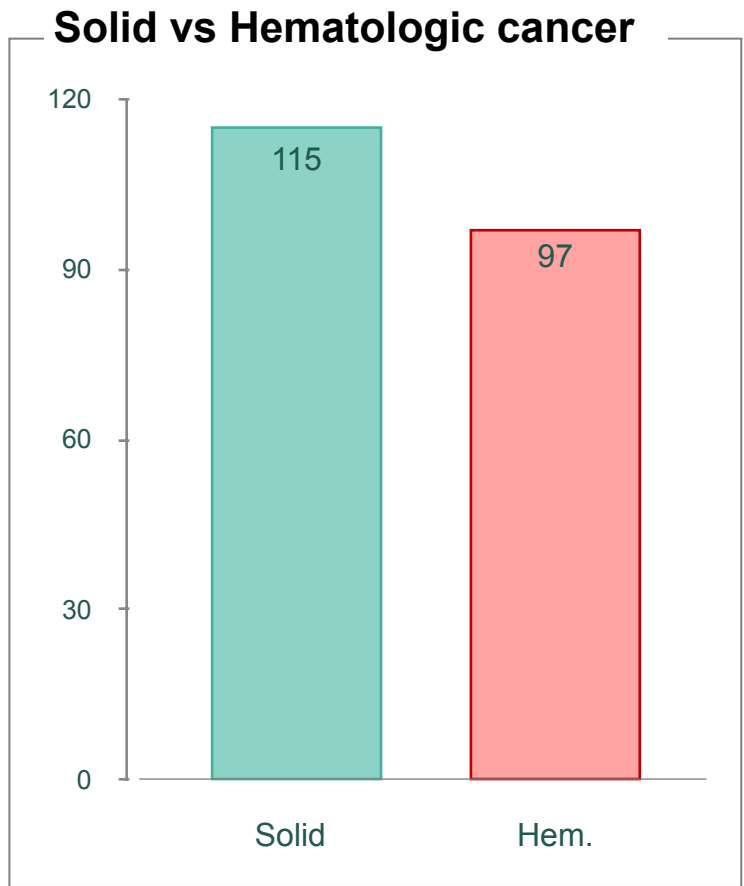
- ▶ Mechanically ventilated = 8,5%
- ▶ Inpatient Mortality = 10,8%
- ▶ 30-Day Mortality = 24,5% (29 deaths 30 days post discharge)
- ▶ 30-Day all-cause readmission = 32,8% (of 189 patients discharged alive)

Highest_O2_Device	count
High_flow_nasal_cannula	31
Mechanical_ventilation	18
Nasal_cannula	77
NIV	5
Non-rebreather	9
None	69
Venturi mask/simple ...	3
Grand total	212



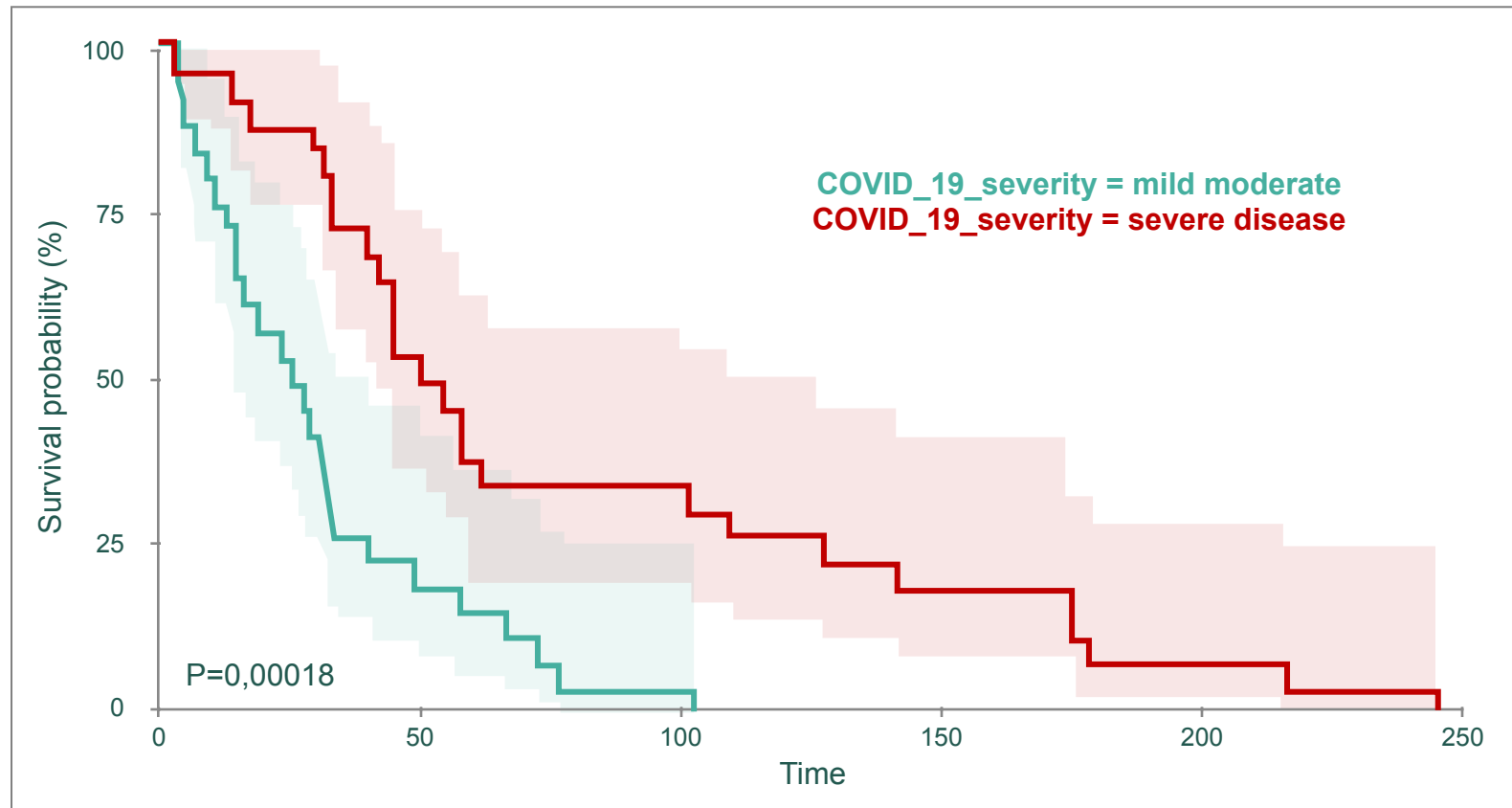
Population characteristic (n=212)

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Survival curve by COVID-19 severity



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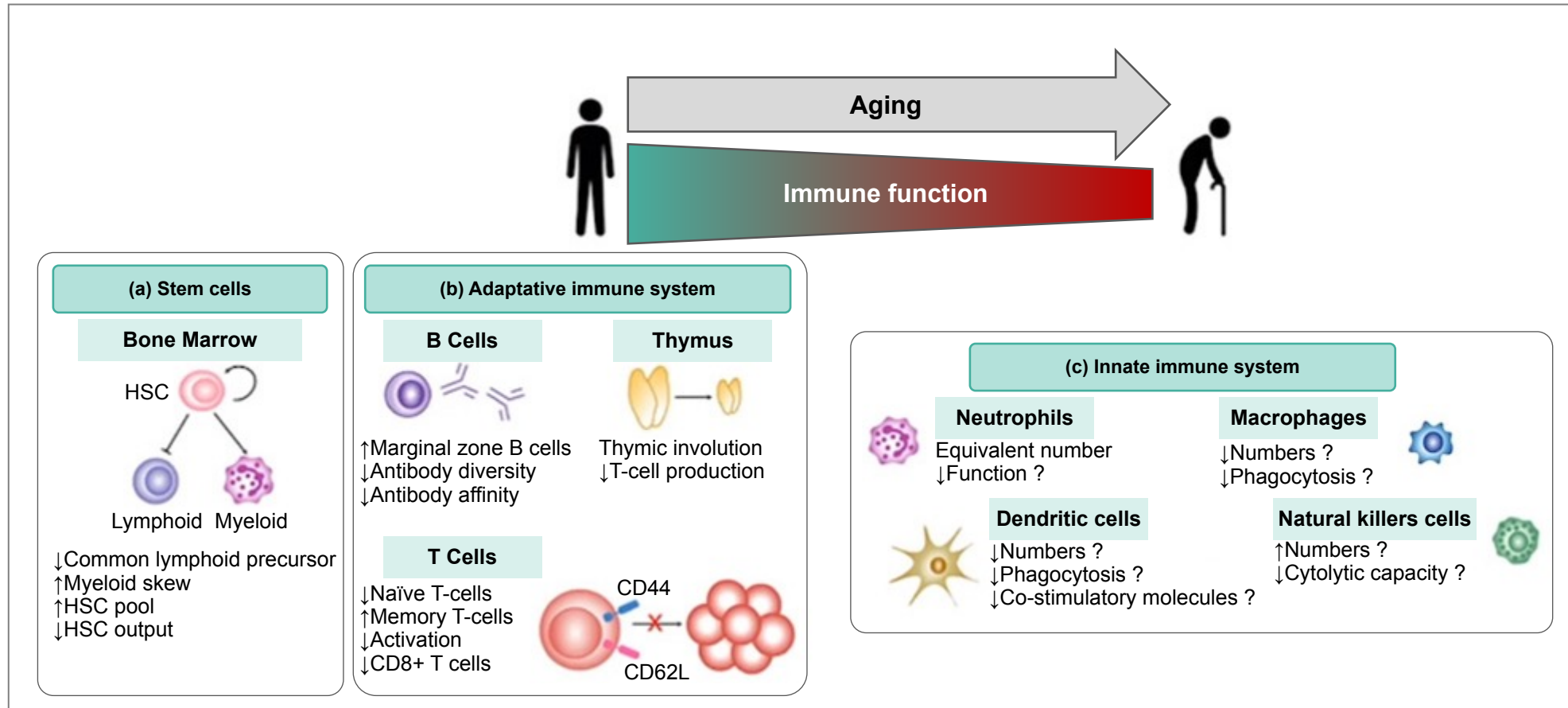
Vaccine and Antibody Mediated Prevention of SARS-COV-2 Infection and Severe Outcomes : **Importance for Older Adults**

Verschoor C. et al. - MASCC® 2021 - ISOO Parallel Session 2

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The aging immune system and COVID19

Why is age associated with severe outcomes ?

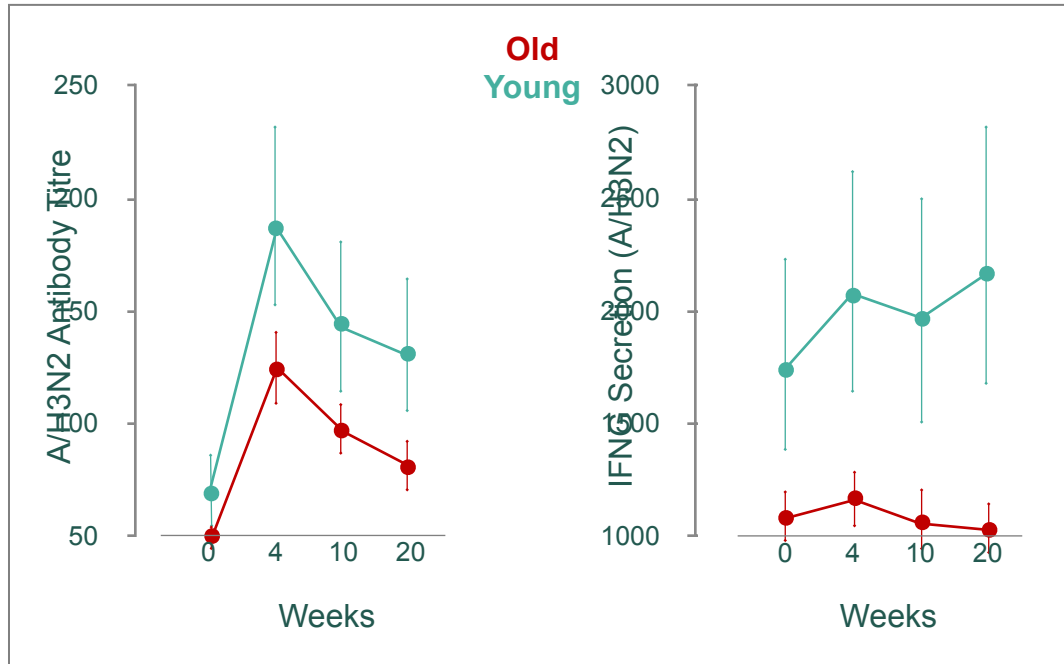


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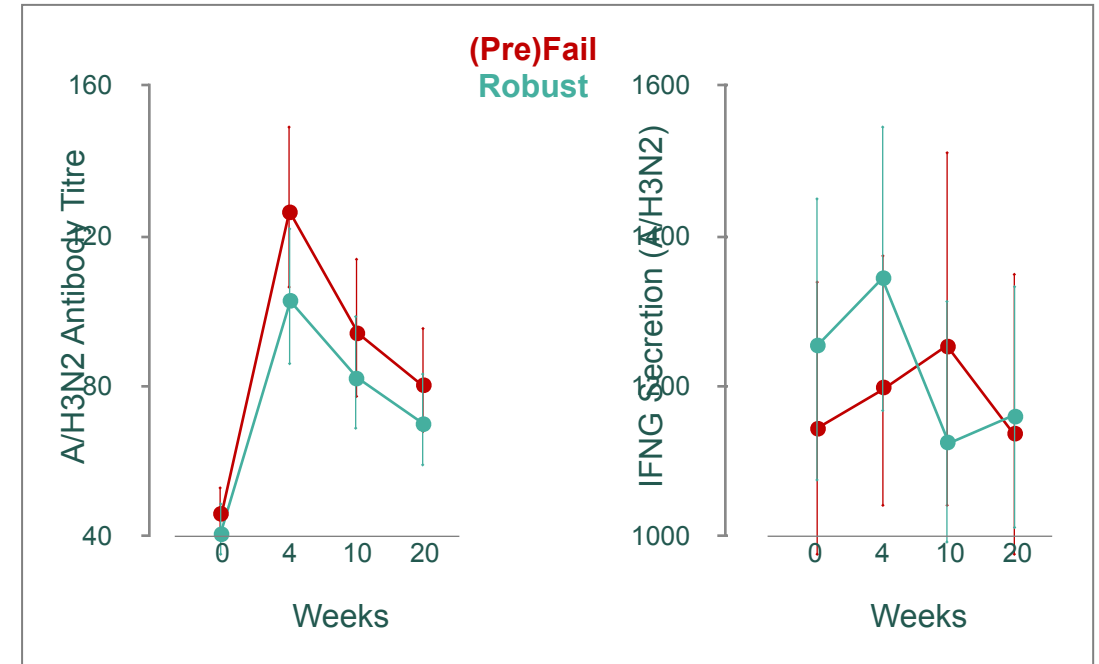
The aging immune system and COVID19

Why does frailty impact COVID outcomes ?

- ▶ How frailty affects immunity is poorly understood



▶ Antibody and cellular response to vaccination decrease with age



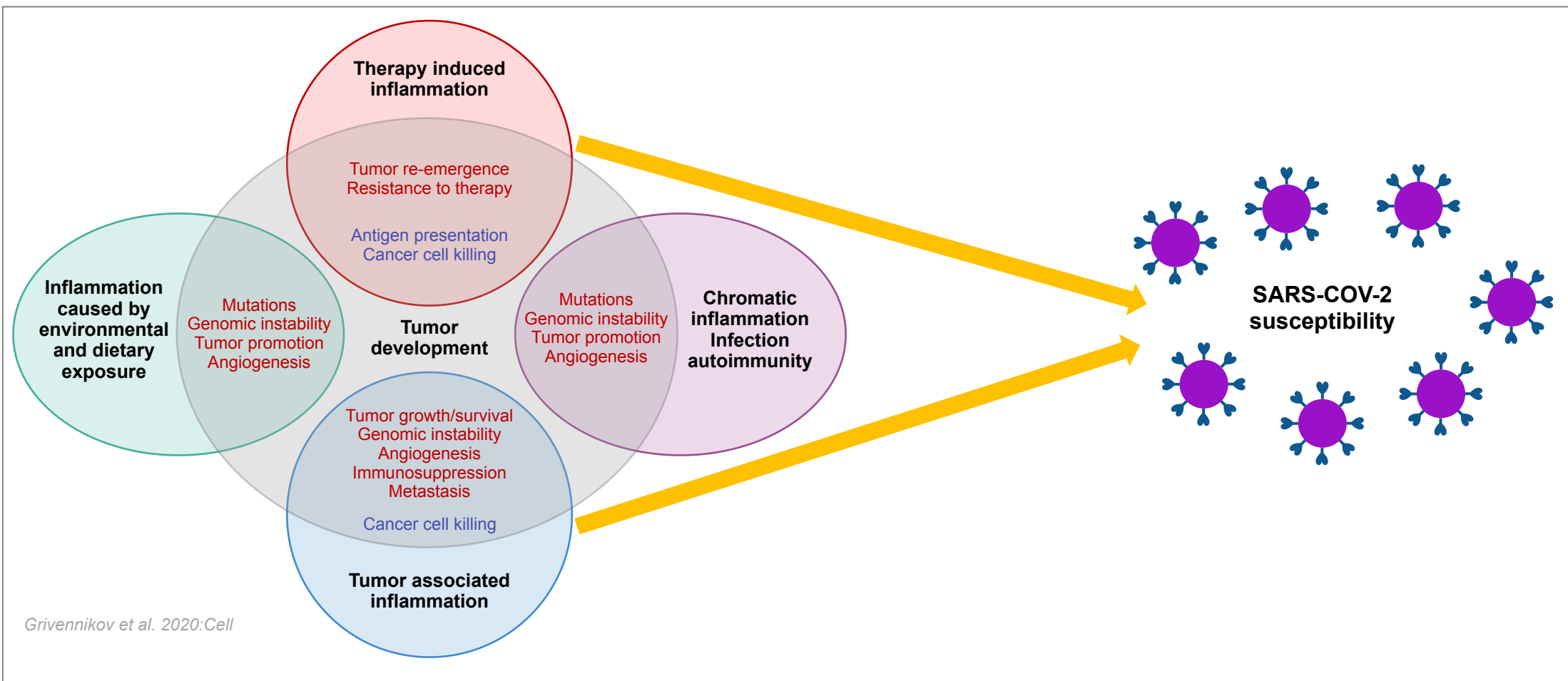
▶ Only cellular response seem to decline with frailty



The aging immune system and COVID19

Implications for the treatment and care of cancer patients ?

► Sources of inflammation during cancer care



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● Observational Study on Thromboembolic Events During COVID-19 Infection in Patients with Breast Cancer

Illarramendi J. et al. - MASCC® 2021 – EPP3 – Parallel session

Observational Study on Thromboembolic Events During COVID-19 Infection in Patients with Breast Cancer (BC)

Description of the study population

Characteristics	n=189
Mean age (Range)	66 years (34-95)
Maintenance anticoagulation before COVID-19	18/189 (9,8%)
Active systematic anticancer therapy	62/188 (32,8%)
Follow-up surveillance	114/188 (60,3%)
Other treatments or before BC diagnosis	12/188 (6,3%)

Observational Study on Thromboembolic Events During COVID-19 Infection in Patients with Breast Cancer

Patient outcomes

Outcomes	N (%)
Hospital admission*	56/188 (29,6)
Deaths (lethality)**	10/188 (5,2)

*Including patients with at-home hospitalisations and/or hospitalisations in conditioned hotels during the peak of the first wave

**Deaths during the next 30 days following the diagnosis

Deaths	
Mean age (range)	83,9 years (IC _{95%} =76-90)
Severe pneumonia	8
Guillain-Barré syndrome	1
Aortic dissection	1

Thrombo-embolic events (TEE)	N (%)
Overall cohort	5/188
Hospitalised patients*	5/56 (8,9)
Ambulatory patients	0/132 (0)
Pulmonary embolisms	4/5 cases
Acute femoral embolism	1/5 cases
Deep vein thrombosis***	0/5 cases

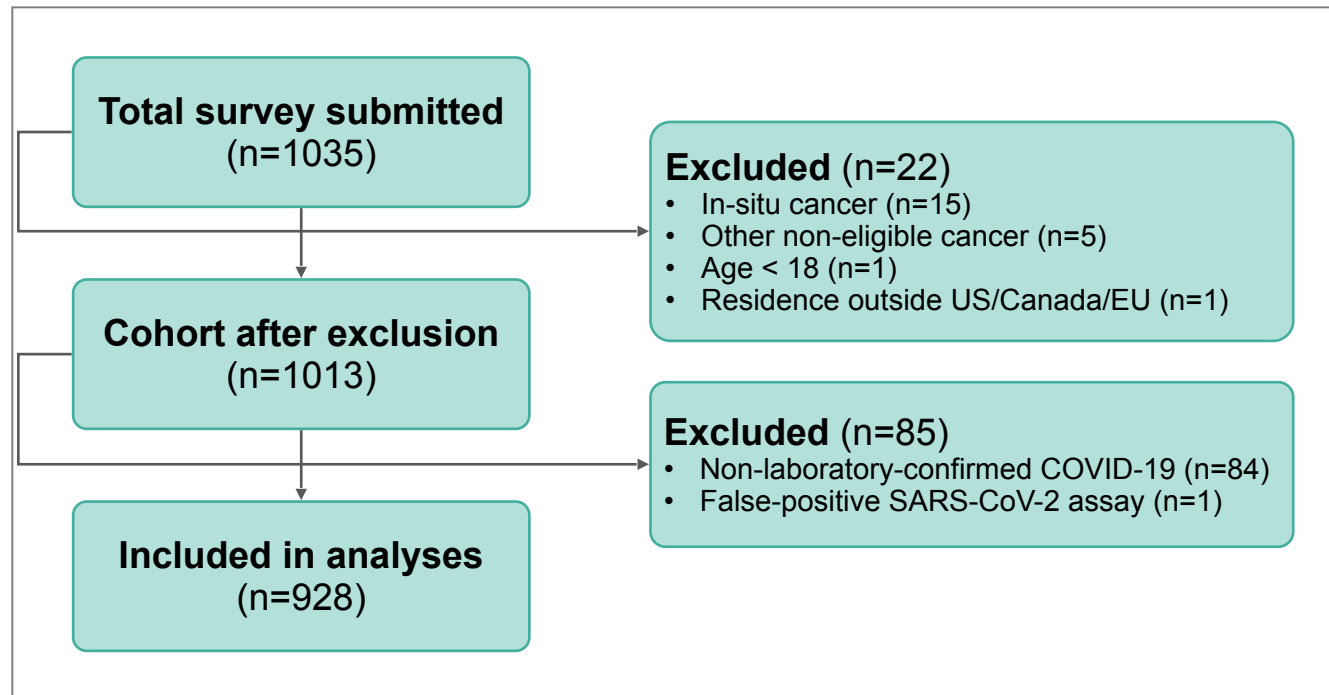
***Prophylactic anticoagulation was included in the protocol for hospitalized patients

● Cohort Study of Clinical Impact of COVID-19 on Patients With Cancer

Kuderer et al. - MASCC® 2021 - Parallel Session



Consort diagram



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Clinical Impact of COVID-19

Select factors associated with 30-days mortality

Characteristics	pAOR ¹	95%CI
Older age risk per decade	1,84	1,53-2,21
Male sex	1,63	1,07-2,48
Former vs never smoker	1,60	1,03-2,47
ECOG PS 2 vs 0/1	3,89	2,11-7,18
Cancer present, stable ²	1,79	1,09-2,95
Cancer present, progressing ³	5,20	2,77-9,77
HCQ+Azithro vs neither	2,93	1,79-4,79

¹pAOR : partially adjusted odds ratio; adjusted for age, sex, smoking status, and obesity
²Versus remission/NED, association is no longer statistically significant in the exploratory elastic net analysis
³Versus remission/NED

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Active Comorbidities and 30-Day All-Cause Mortality

Number of active comorbidities	N	Univariate OR	pAOR ¹	Death (%)
0	132	1 (ref)	1 (ref)	3 (2%)
1	202	3,12 (0,87-11,19)	1,87 (0,51-6,85)	13 (6%)
2	231	9,52 (2,89-31,40)	4,50 (1,33-15,28)	41 (18%)
3	117	11,54 (3,37-39,53)	5,04 (1,42-17,93)	24 (21%)
≥4	192	8,77 (2,62-29-29)	3,55 (1,03-12,30)	31 (16%)
Unknown	23	12,33 (2,71-56,01)	6,77 (1,42-32,33)	5 (22%)

¹pAOR : partially adjusted odds OR
*Require active medical intervention

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Clinical Impact of COVID-19

Rates of complication¹

Outcome	Number	%
Deaths ²	121	13%
Mechanical ventilation	116	12%
ICU admission	132	14%
Composite outcome³	242	26%
O2 requirement	405	44%
Hospitalization	466	50%

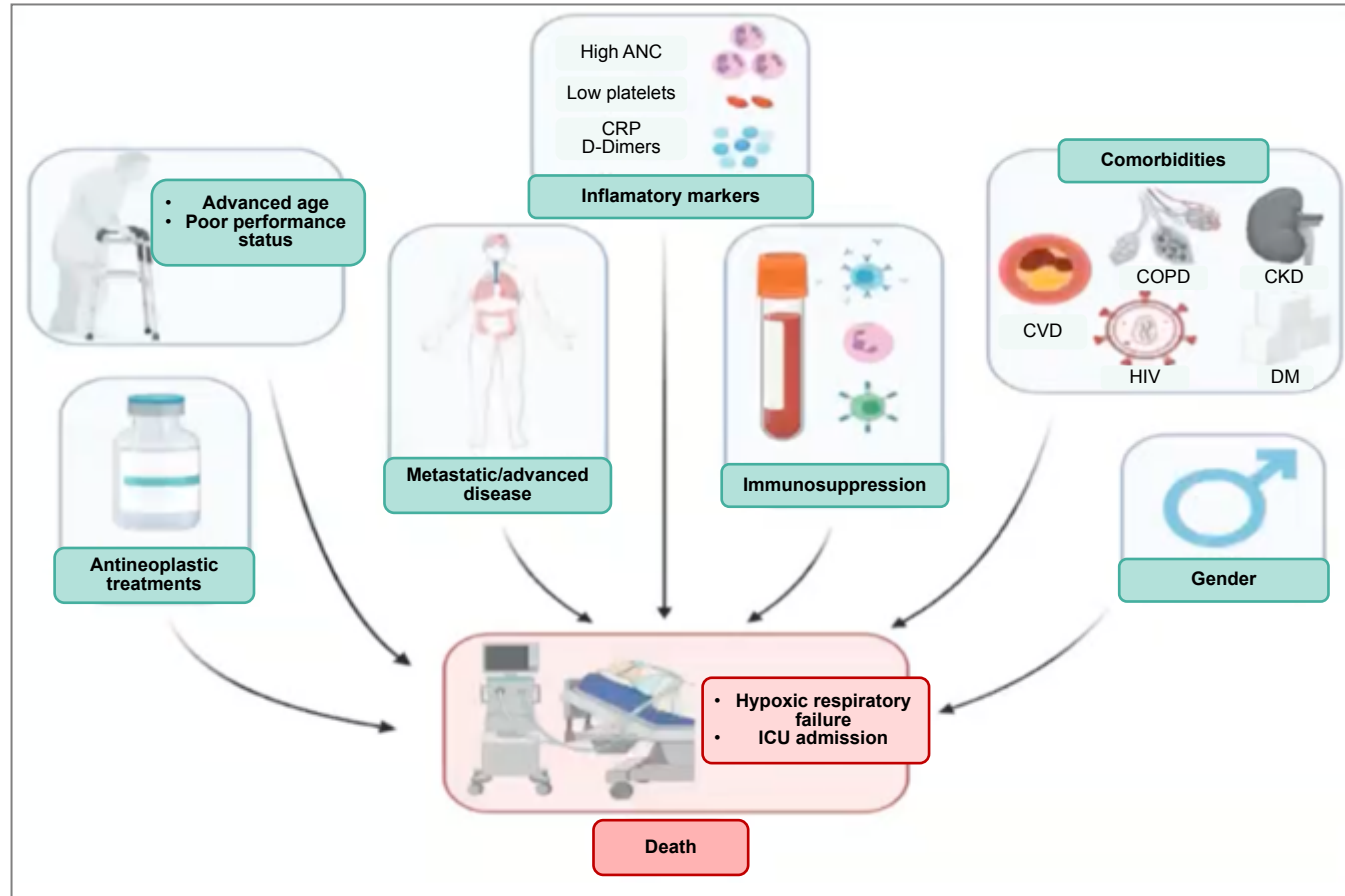
¹Median 21 days of follow-up (IQR 11-41days)
²30-days all-cause mortality
³A composite of death, severe illness requiring hospitalization, ICU admission, or mechanical ventilation

Mortality key subgroups	Number/total	%
ECOG PS 0, no comorbidities	0/86	0%
Global statistics ¹	316k/4,74M	6,6%
Total for CCC19 cohort	121/928	13%
Male sex	78/468	17%
Age 75+	70/279	25%
Cancer present, progressing	25/102	25%
ECOG PS 2+	42/118	36%
Age 75+ with intubation	26/44	59%
ECOG PS 2+ with intubation	11/13	85%

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Risk Factors for Mortality in Patients with COVID-19 and Cancer




Risk factors for adverse outcomes in patients with cancer and COVID-19, CKD, chronic kidney disease; COPD, chronic obstructive pulmonary disease; CVD, cardiovascular disease; DM, diabetes mellitus; HIV, human immunodeficiency virus

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Oral oncology : ISOO[®]-MASCC[®]

Photobiomodulation Therapy for Oral Mucositis

Kauark-Fontes E. *et al.* - MASCC[®] 2021 - Parallel Session: Mucositis – New Dimensions in Research and Clinical Practice, Oral Proffered paper 3



Extraoral Photobiomodulation Therapy for Oral Mucositis in Oral and Oropharyngeal Cancer Patients: Interim Analysis of a Randomized Clinical Trial

*Kauark-Fontes E, MASCC® 2021, Mucositis –
New Dimensions in Research and Clinical Practice, Oral Proffered paper 3*

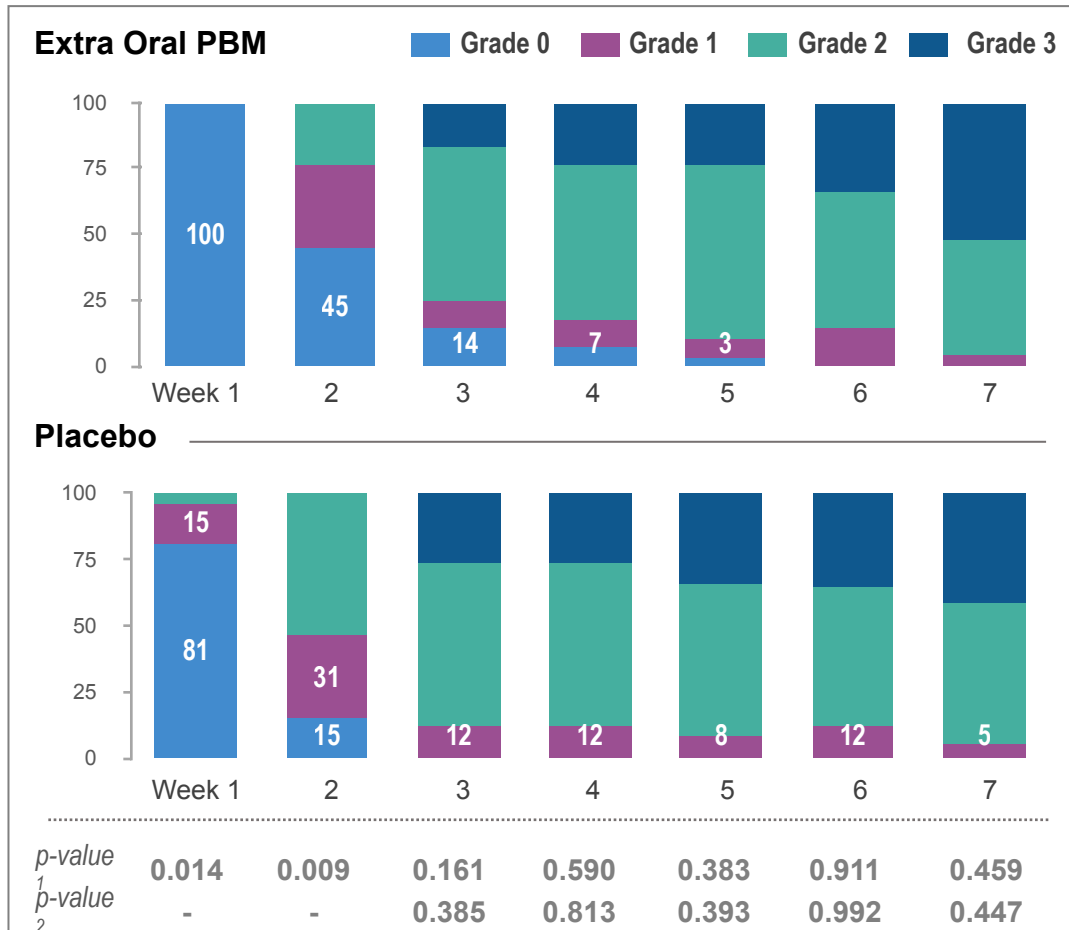
Extraoral Photobiomodulation (PBM) Therapy for Oral Mucositis in Oral and Oropharyngeal Cancer Patients

- ▶ PBM is useful for the treatment of oral mucositis induced by radiotherapy in head and neck cancer patients
 - Potential benefit of extraoral PBM
 - Easier to use
 - Time saving
 - Reduced infectious risk in the Covid era
- ▶ Prospective , randomized double blind study
 - Patients treated with radiation therapy (60-70Gy), for oral or oropharyngeal
 - One PBM session / day with the device switched on or not (placebo)
 - Cheeks, chin and neck
 - Evaluation criteria:
 - Mucositis incidence and severity
 - Pain
 - Analgesics and anti-inflammatory drug use
 - Patients quality of life

Ce contenu est un rapport et/ou un résumé de communications d'un congrès dont l'objectif est de fournir des informations sur l'état actuel de la recherche ; les données présentées ici sont susceptibles de ne pas être validées par les autorités sanitaires et, à ce titre, ne doivent pas être mises en pratique.

Evaluation of Extraoral Photobiomodulation Therapy for Oral Mucositis in Oral and Oropharyngeal Cancer Patients

Incidence and severity of mucositis

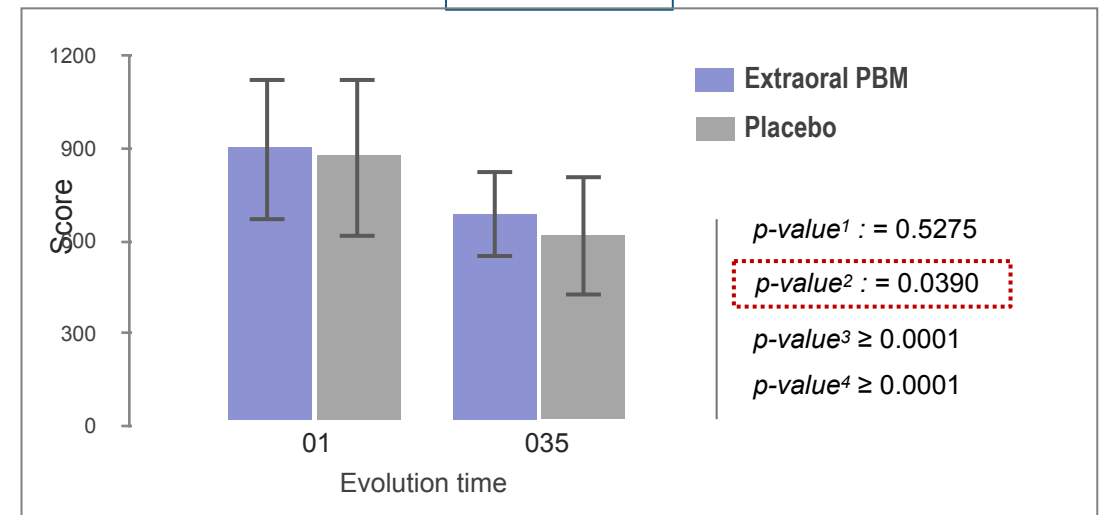


p -value¹ : Mann-Whitney test for between-groups overall OM comparison (Extraoral PBM vs placebo)
 p -value² : Chi-square test for between-groups severe OM comparison (Extraoral PBM vs Placebo)

- No effect on mucositis incidence or grade
- But less pain
 - Mean VAS 2.1 vs 4.5, $p=0.009$
- Less analgesics use
- Quality of life more preserved

These results need to be confirmed to support the use of extraoral PBM in clinical practice

Quality of life



Models of care

SCC: A luxury in low and middle income countries?

Soto Perez de Celis E. *et al.* - MASCC® 2021 - Plenary Session 3: Models of Supportive Care

Models of supportive care: level of evidence

Scotte F. *et al.* - MASCC® 2021 - Plenary Session 3: Models of Supportive Care

30 years of MASCC®

Keefe D. *et al.* - MASCC® 2021 - Plenary Session 3: Models of Supportive Care

Use of the PROs

Eicher M. *et al.* - MASCC® 2021 - Parallel Session Standards and New Technologies Session

● Supportive care models: Levels of evidence and economic limits

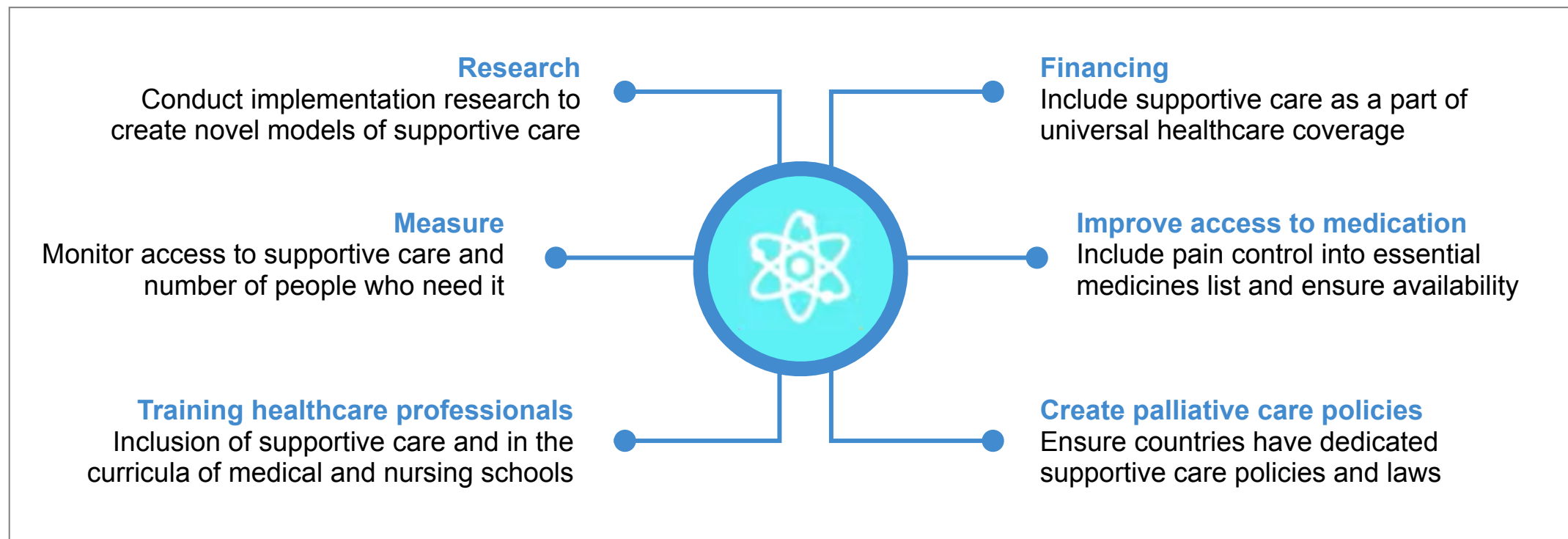
Soto Perez de Celis E. - MASCC® 2021 – Plenary Session 3: Models of Supportive Care

Scotte F. et al. - MASCC® 2021 – Plenary Session 3: Models of Supportive Care

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SUPPORTIVE CARE: A luxury in low and middle income economies?

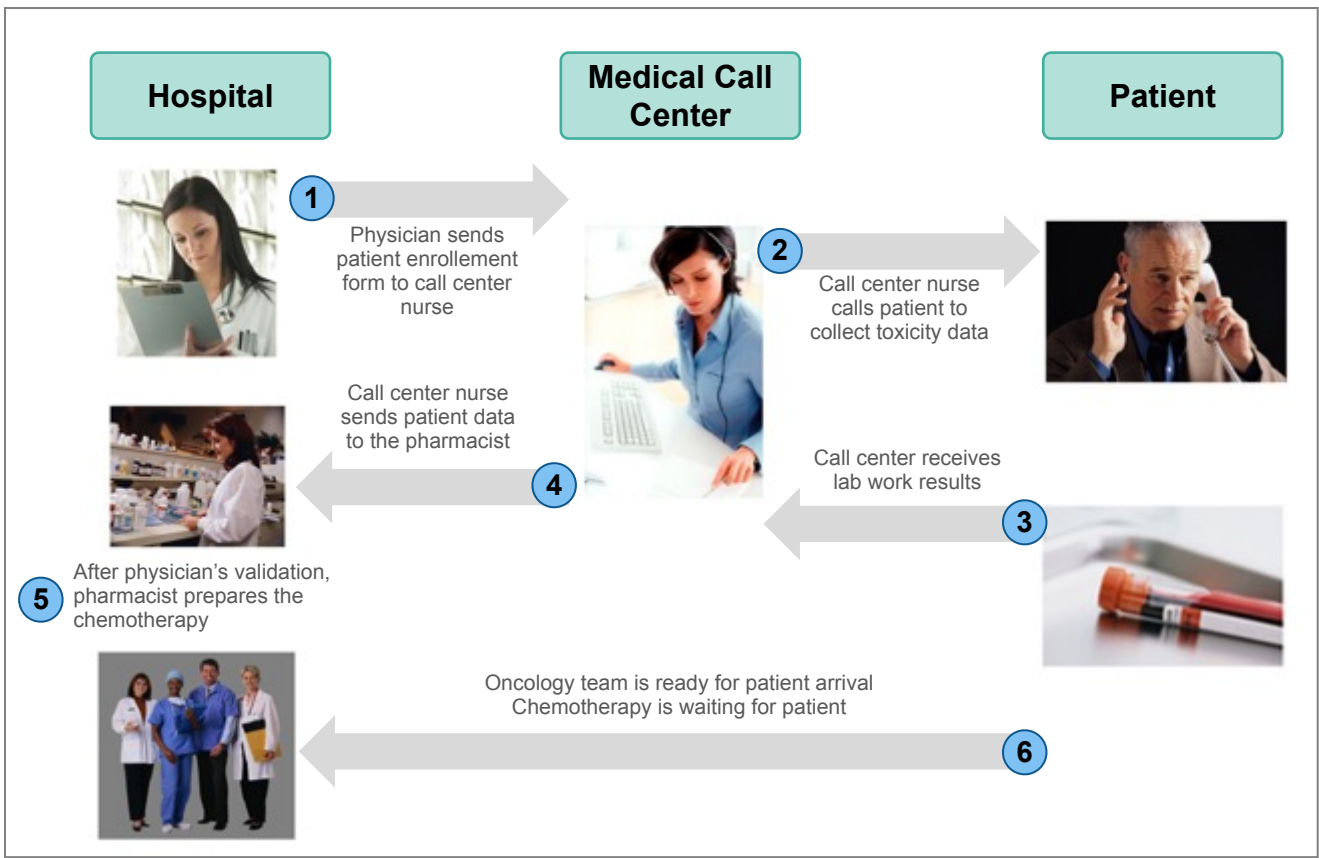
Moving forward



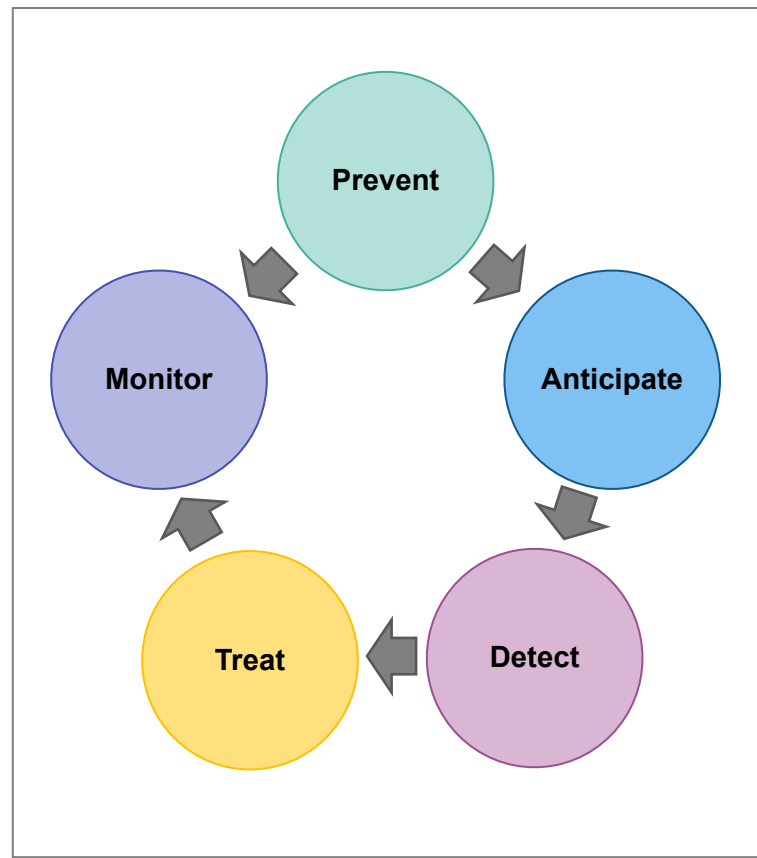


MODELS OF SUPPORTIVE CARE : What's the Evidence?

Several published models



Scotté F. et al. Eur J Cancer 2013.
Scotté F. Oncologist 2012.



Champiat S. et al. Annals of Oncology 27: 559-574, 2016
adapted from Weber, et al., Journal of Clinical Oncology, 2012.

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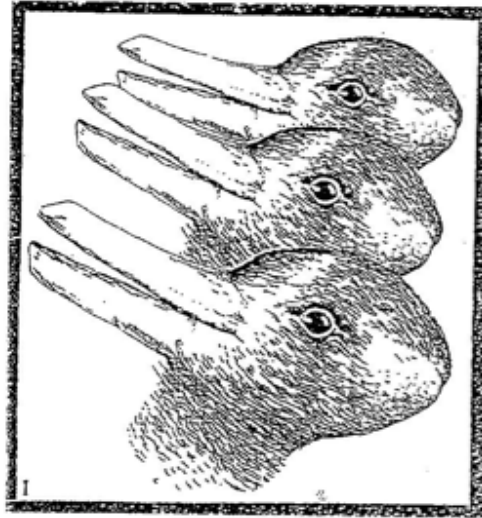
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Applying to the MASCC certification program

Is There One Model ...



**Excellence
in Supportive Care
in Cancer**



What's the Evidence?





30 years of MASCC® :

Dorothy Keefe testimony

Keefe D. et al. - MASCC® 2021 - Plenary Session 3: Models of Supportive Care

MASCC®: 30 years and more

Supportive care in cancer: the holistic concept (Klastersky)



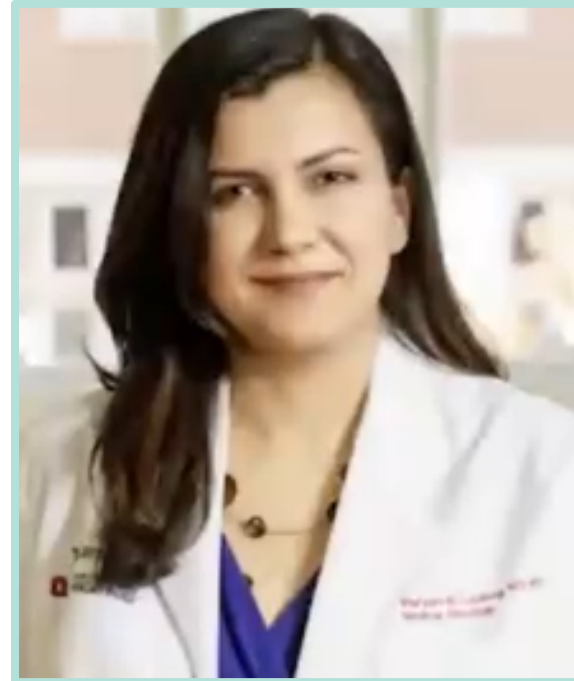
- ▶ Applies to the entire duration of the disease
- ▶ Addresses all the aspects of the patient
- ▶ Needs multiple competences
- ▶ Requires international dimension

MASCC®: 30 years and more

All the presidents (men, and now women)

- ▶ Jean Klastersky
- ▶ Richard Gralla
- ▶ Matti Aapro
- ▶ Paul Hesketh
- ▶ Doroty Keele
- ▶ Steve Grunberg
- ▶ Dave Warr
- ▶ Jorn Herrstedt
- ▶ Ian Olver
- ▶ Raj Lalla
- ▶ Andrew Davies

- ▶ Maryam Lustberg



● Guiding Patients in Self-Management of Symptoms

Eicher M. et al. - MASCC® 2021 - Parallel Session Standards and New Technologies in Monitoring and Management of Patient-Reported Toxicities During Active Treatment and in Follow-Up Session

Guiding Patients in Self-Management of Symptoms

- ▶ Symptoms identification using PRO (patient reported outcomes) better than health care professional evaluation
 - More accurate
 - Comprehensiveness
 - Real time transmission
- ▶ Digital devices are useful
 - Data collection easier
 - Real time analyses
- ▶ Digital device requirement
 - Must be adapted to patient, as patient is the first user (do not forget)
 - Nurse training is mandatory
 - For using digital device
 - More important: PRO create a new kind of relationship with patients
 - Able to deal with emergencies
 - Connection with computed patient file is important

Goodies

Managing hot flashes

Loprinzi C. et al. - MASCC® 2021 - Parallel session Endocrine and Menopausal Symptom Management

Chewing vitamin C for xerostomia

Dutta S. et al. - MASCC® 2021 - Travel Scholarship Awards 2020

High-dose vitamin D for bone preservation

Peppone Let al. - MASCC® 2021 - , Parallel Session: Bone Health in the Cancer Continuum, Oral Proffered Paper 1

Nutrition and translational research

Baracos V. et al. - MASCC® 2021 - Parallel Session: A Call to Action: Malnutrition in Patients with Cancer - Priorities within Clinical Practice, Research, Education and Health Policy

Cannabinoids

Vigano ML. et al. - MASCC® 2021 - Parallel Session: Cannabinoids in Cancer patients

● Non Estrogenic Management of Hot Flashes

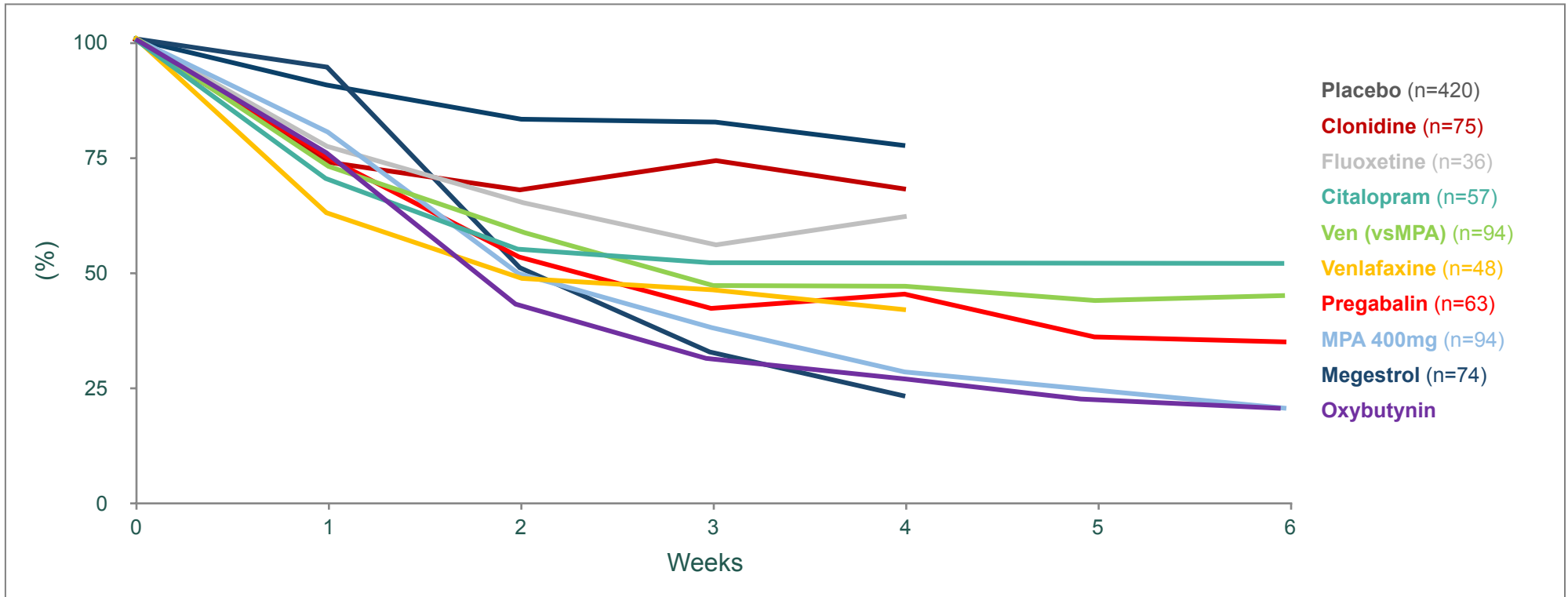
Loprinzi C. et al. - MASCC® 2021 – Parallel session



Mean Hot Flash Score % Reduction Randomized Studies

Positive trials

- ▶ Mean hot flash score % reduction
 - Randomized studies



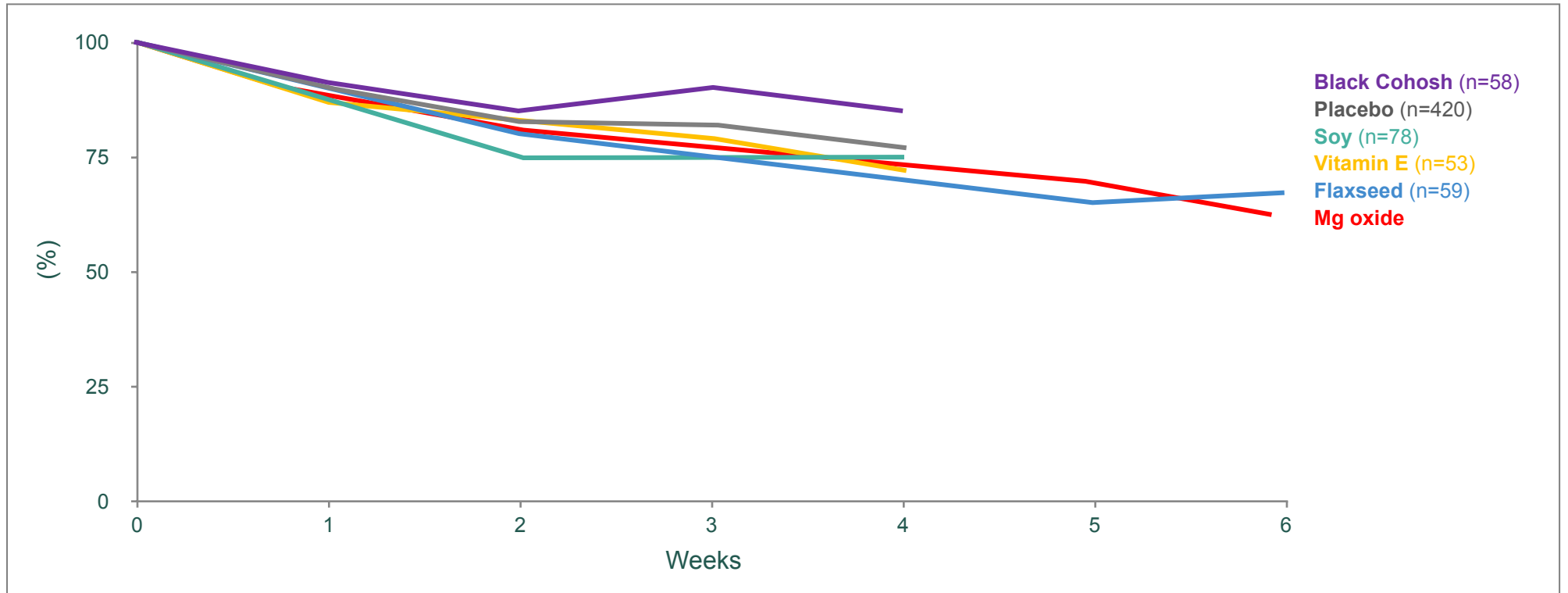
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Mean Hot Flash Score % Reduction Randomized Studies

Negative trials

- ▶ Mean hot flash score % reduction
 - Randomized studies



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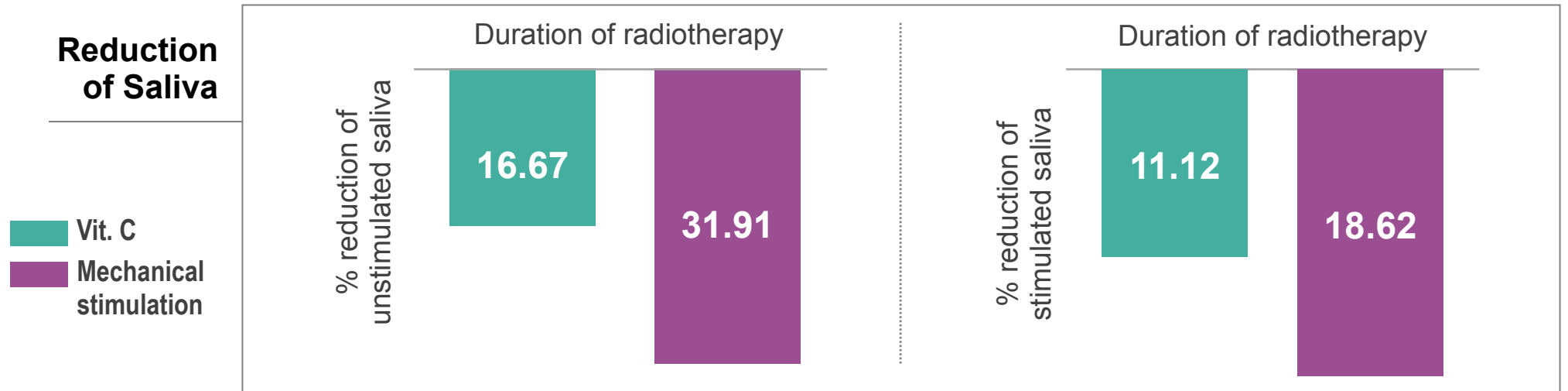
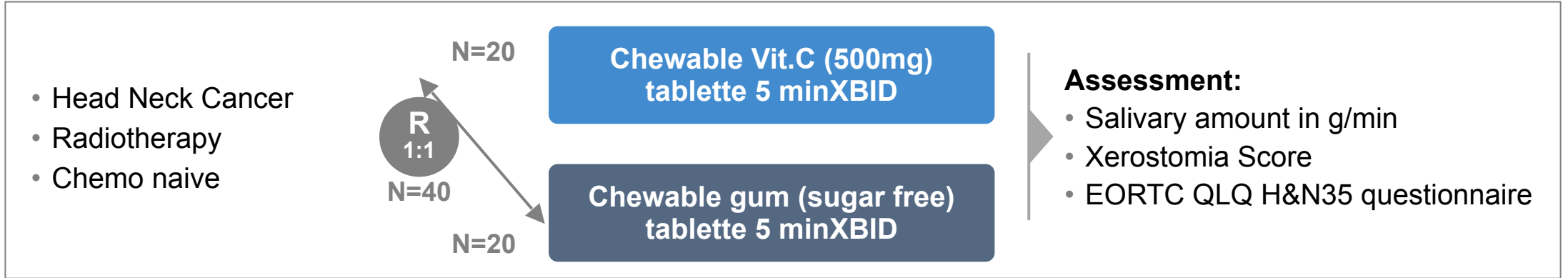
● Vitamin C tablets improve radiation-induced xerostomia

Dutta S. et al. - MASCC® 2021 - Travel Scholarship Awards 2020

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Vitamine C tablettes Improves Radio Induced Xerostomia

Randomised open label study to compare chewing vitamin C tablette vs sugar free gum

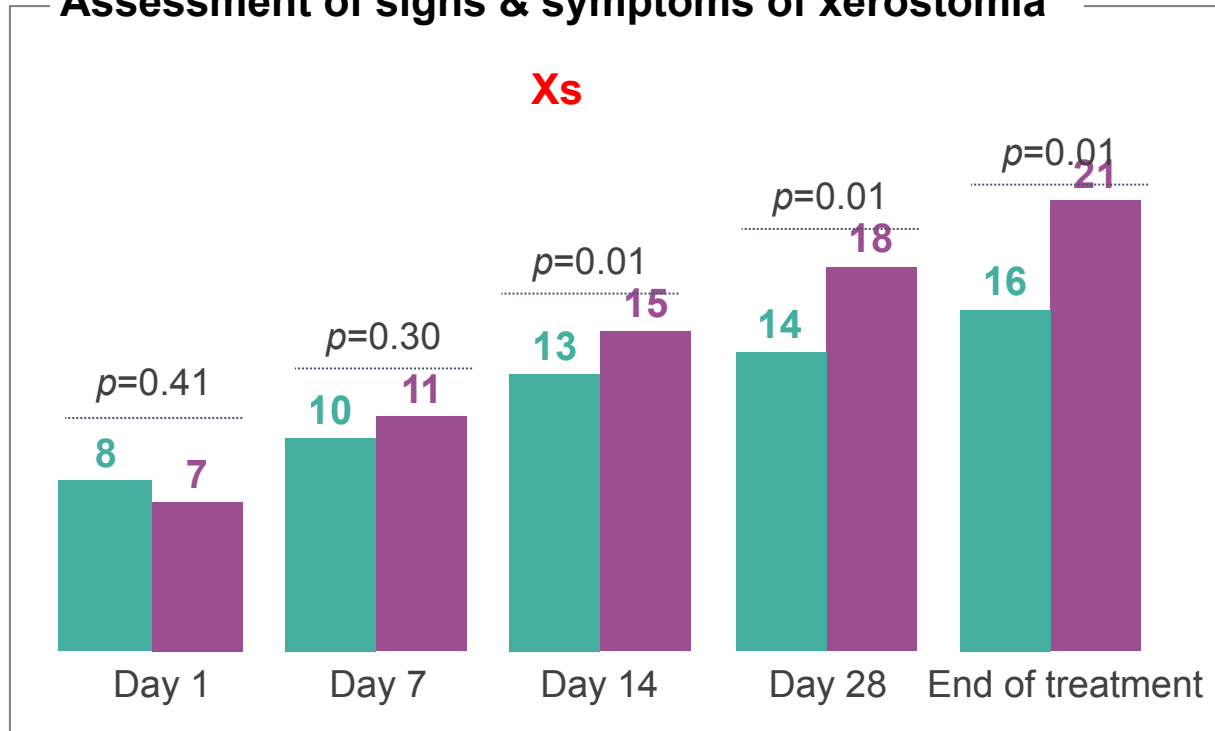




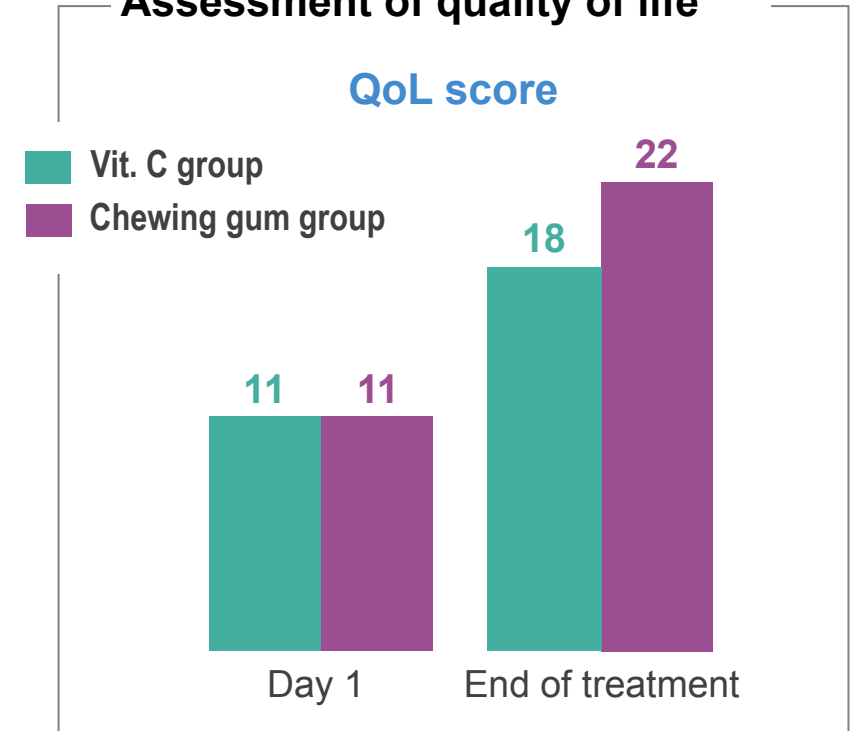
Vitamine C tablettes Improves Radio Induced Xerostomia

Randomised open label study to compare chewing vitamin C tablette vs sugar free gum

Assessment of signs & symptoms of xerostomia



Assessment of quality of life



➤ Chewing Vit C improves QOL and xerostomia radio-induced

QOL= Quality of Life

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● Safety And Efficacy Of High-Dose Vitamin D Supplementation For Bone Loss In 164 Breast And Prostate Cancer Patients

Peppone L, MASCC® 2021, Bone Health in the Cancer Continuum, Oral Proffered Paper 1

High-Dose Vitamin D Supplementation For Bone Loss Breast And Prostate Cancer Patients

- ▶ Bone loss and osteoporosis is an important problem in patients with breast or prostate cancer
 - Bone loss estimated to 2- 4% per year
 - Link between bone loss and risk of fracture and between hip fracture and survival in women with breast cancer.
- ▶ Vitamin D plays an important role in bone metabolism
 - Dose dependent
 - Patients have often vitamin D deficiency
- ▶ Randomized, placebo controlled study
 - Evaluation of high dose vitamin D
 - Patients with breast cancer (menopausal patients with hormonal therapy) or prostate cancer (with androgen deprivation), all with vitamin D insufficiency

High-Dose Vitamin D Supplementation For Bone Loss Breast And Prostate Cancer Patients

Results:

- ▶ 164 patients included
- ▶ High dose Vitamin D (5000 UI/ week) vs placebo
 - All patients receiving 600UI of vitamin D daily with calcium1g
- ▶ Significant increase of vitamin D levels in patients receiving high dose vitamin D
 - Without increase of calcemia
- ▶ Bone loss was seen in all of the patients
 - But more pronounced in patients receiving high dose vitamin D
 - As measured on the hip, not on the spine

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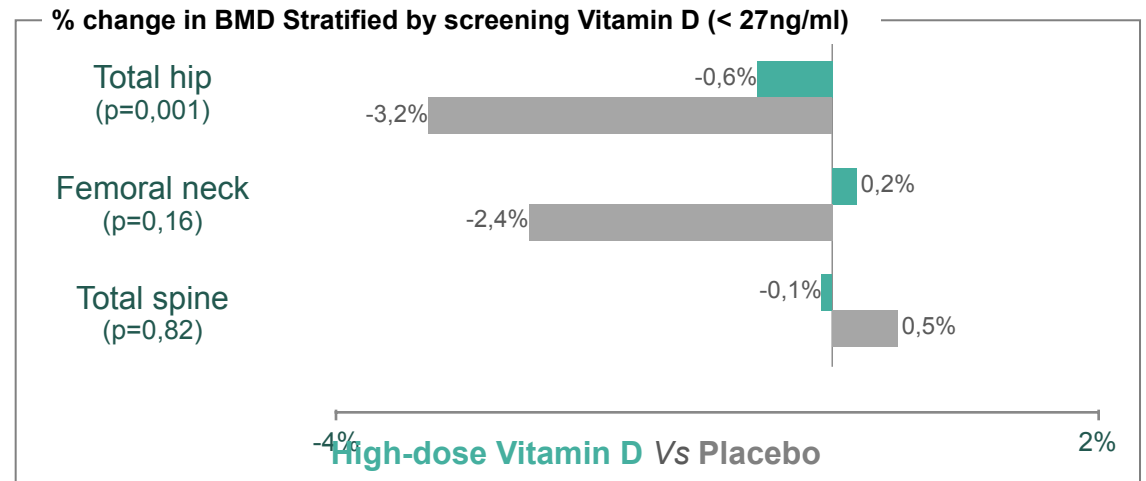
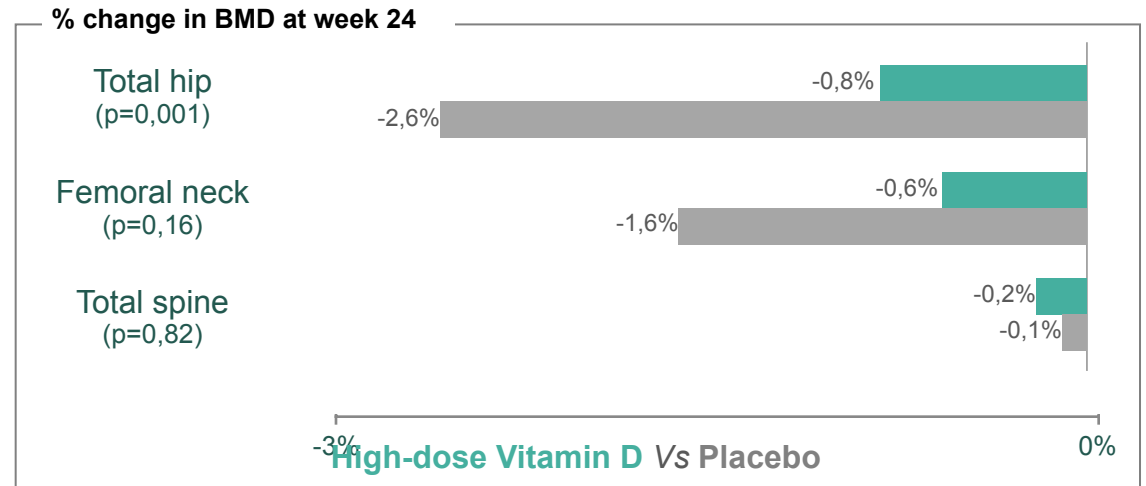
Evaluation of high dose vitamin D to prevent bone loss in patients with breast or prostate cancer

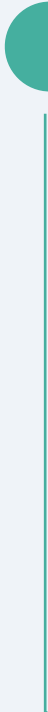
Effect on hip and spine bone density

► All patients experienced some bone loss

- High dose vitamin D limits bone loss, especially for hip
- This protective effect is more important in patients with lower vitamin D level at inclusion

Further larger studies are required to properly evaluate the benefit of high dose vitamin D to prevent bone loss in cancer patients





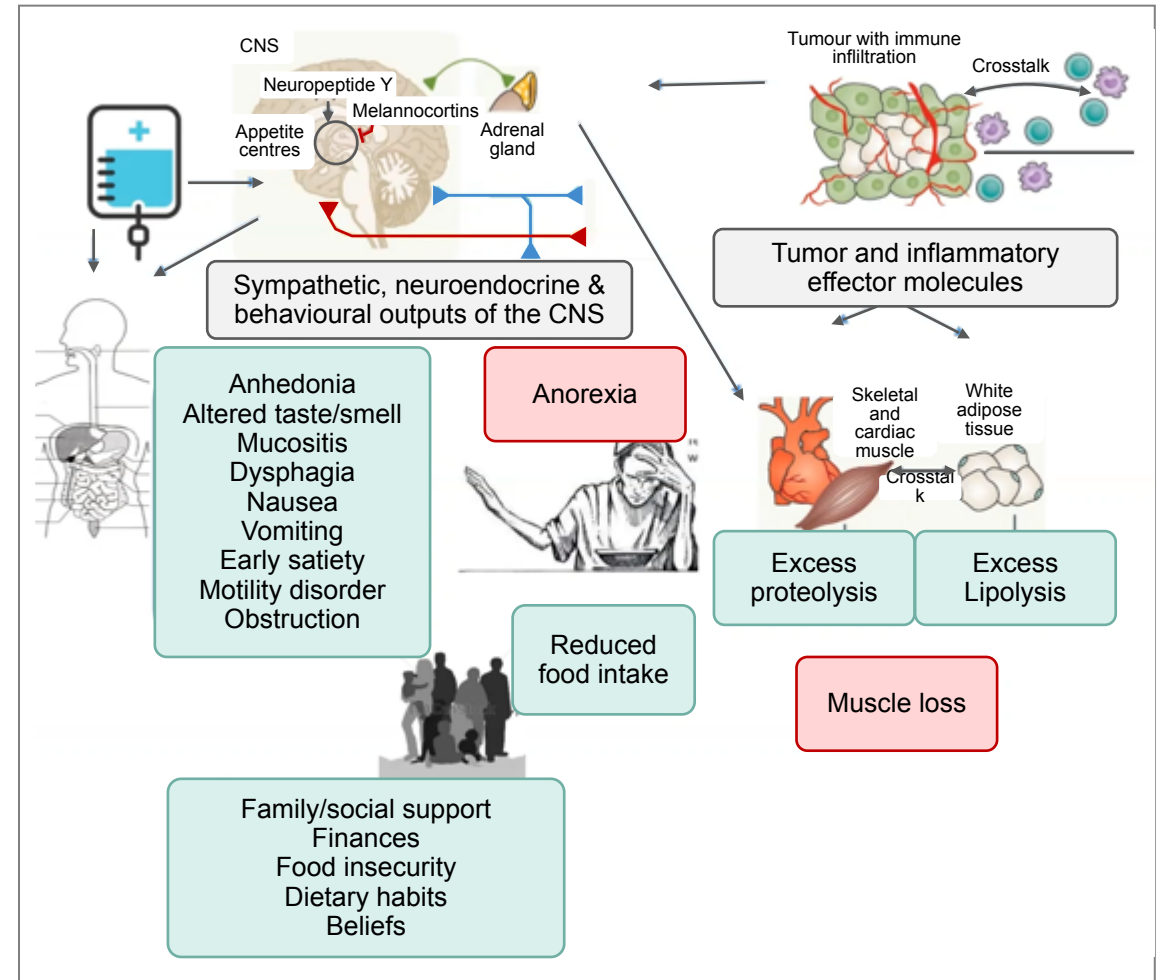
Translational Science Priorities (Mechanisms, Diagnostic Criteria, Management)

*Baracos V. et al. - MASCC® 2021 - Parallel Session: A Call to Action: Malnutrition in
Patients with Cancer - Priorities within Clinical Practice, Research, Education and Health Policy*

Malnutrition in patients with cancer

► Multiple factors are involved in denutrition pathophysiology

- CNS
- Inflammation cytokines
- Food intakes
- Psychological and social context



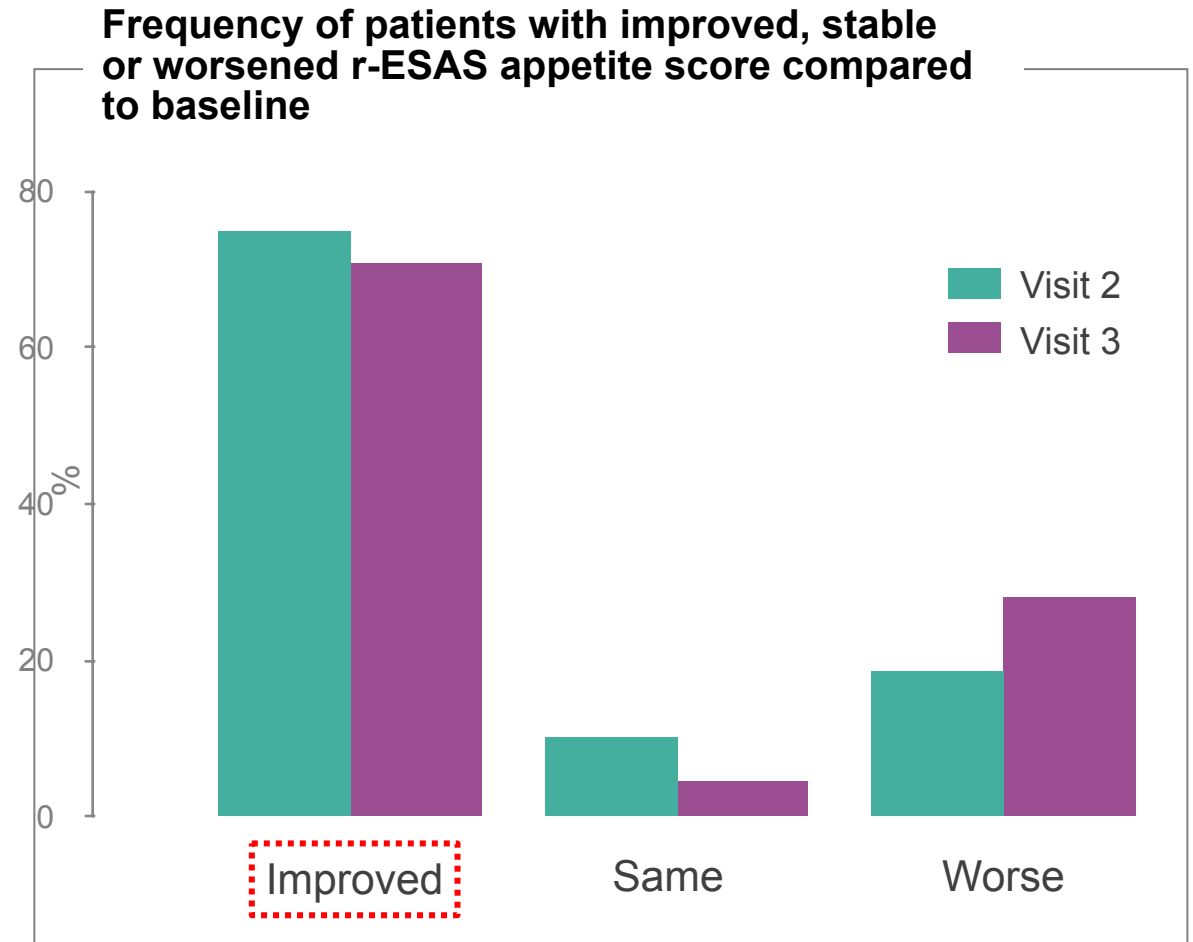
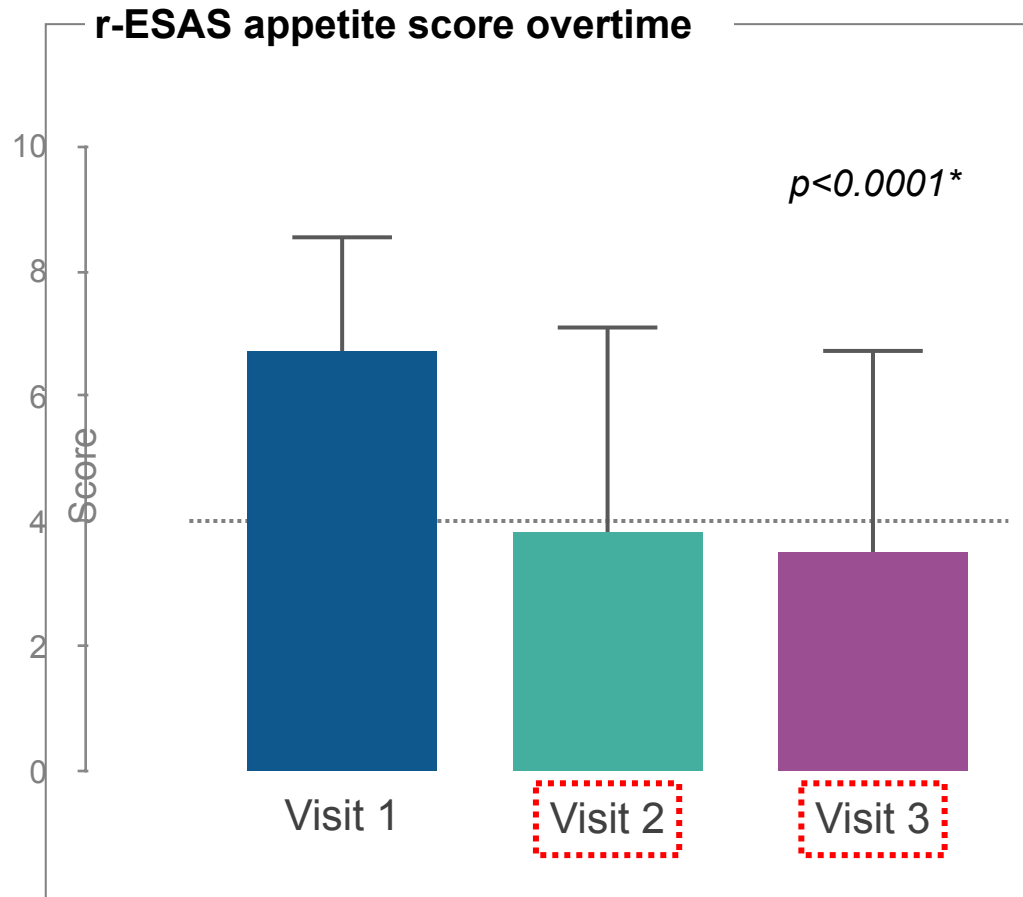
● Cannabinoids

Vigano ML. et al. - MASCC® 2021 - Parallel Session: Cannabinoids in Cancer patients Oral Proffered Paper 4



RESULTS: r-ESAS lack of appetite score

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*Kruskal-Wallis test

RESULTS: r-ESAS lack of appetite score

Results: Demographic/patients characteristics

		Mean (n=81)	SD
Age (years)		59.1	15.0
R-ESAS appetite (score)		6.5	2.0
		N (81)	%
Sex	Male	38	46.9
	Female	42	51.9
	Unknown	1	1.2
Diagnosis	Gastrointestinal	20	24.7
	Hematological	13	16.0
	Genito-urinary	10	12.3
	Hepatobiliary	10	12.3
	Breast	9	11.1
	Lung	8	9.9
	Other	7	8.6
	Unknown	4	4.9
Cannabis route	Inhaled	16	19.8
	Oral	41	50.6
	Inhaled & oral	23	28.4
	Unknown	1	1.2
Cannabinoid content ratio of strains at baseline	Balanced (CBS; THC)	36	44.4
	CBD-dominant	17	21.0
	THC-dominant	19	23.5
	Unknown	9	11.1

Cardiotoxicity – Fatigue – Cognitive

Beyond left heart dysfunction

Suter T. . *et al.* - MASCC® 2021 - Plenary Session 2

Genetics and epigenetics on cardiotoxicity and fatigue

Mustian K. . *et al.* - MASCC® 2021 - Parallel Session Double Hitter

Physical, emotional and cognitive fatigue according to tumour

Schmidt M. *et al.* - MASCC® 2021 - , Parallel Session:Double Hitter Oral Proffered Paper 4

Metalloporphyrin Radioprotective in glioma

Peters K. . *et al.* - MASCC® 2021 - Parallel Session: Oral Proffered Paper 4



Cardio-Oncology : Beyond Left Ventricular Dysfunction

Suter T. et al. - MASCC® 2021 - Plenary Session 2

Classification of Risks for CTRCD

Therapy related factors	Patients related factors
Low risk of cardiotoxicity	
<ul style="list-style-type: none"> Lower dose AC (eg doxorubicin <200mg/m², epirubicin <300mg/m²); liposomal formulations Trastuzumab without AC 	<ul style="list-style-type: none"> Age > 18 and < 50 years
Medium risk of cardiotoxicity	
<ul style="list-style-type: none"> Modest dose AC (doxorubicin 200-400mg/m², epirubicin 300-600mg/m²) AC followed by trastuzumab VEGF tyrosine kinase inhibitors Second and third generation Bcr-Abl tyrosine kinase inhibitors Proteasome inhibitors Combination immune checkpoint inhibitors 	<ul style="list-style-type: none"> Age 50-64 years 1-2 CV risk factors such as hypertension, dyslipidaemia, obesity, insulin resistance, smoking
High risk of cardiotoxicity	
Simultaneous AC and trastuzumab High dose AC (doxorubicin ≥400mg/m ² , epirubicin ≥600mg/m ²) Modest dose Acplus left chest radiation therapy Elevated cardiac troponin post AC prior to HER2-targeted therapy High dose radiation therapy to central chest including heart in radiation field ≥30Gy	<ul style="list-style-type: none"> Age ≥65 years >2 CV risk factors as hypertension, dyslipidaemia, obesity, smoking, diabetes Underlying CV disease : CAD, PAD, CMP, severe VHD, heart failure
VEGF tyrosine kinase inhibitors following previous AC chemotherapy	<ul style="list-style-type: none"> Reduced or low-normal LVEF (50-54%) pre-treatment Prior cancer therapy

CTRCD : Cancer therapy-related cardiac dysfunction



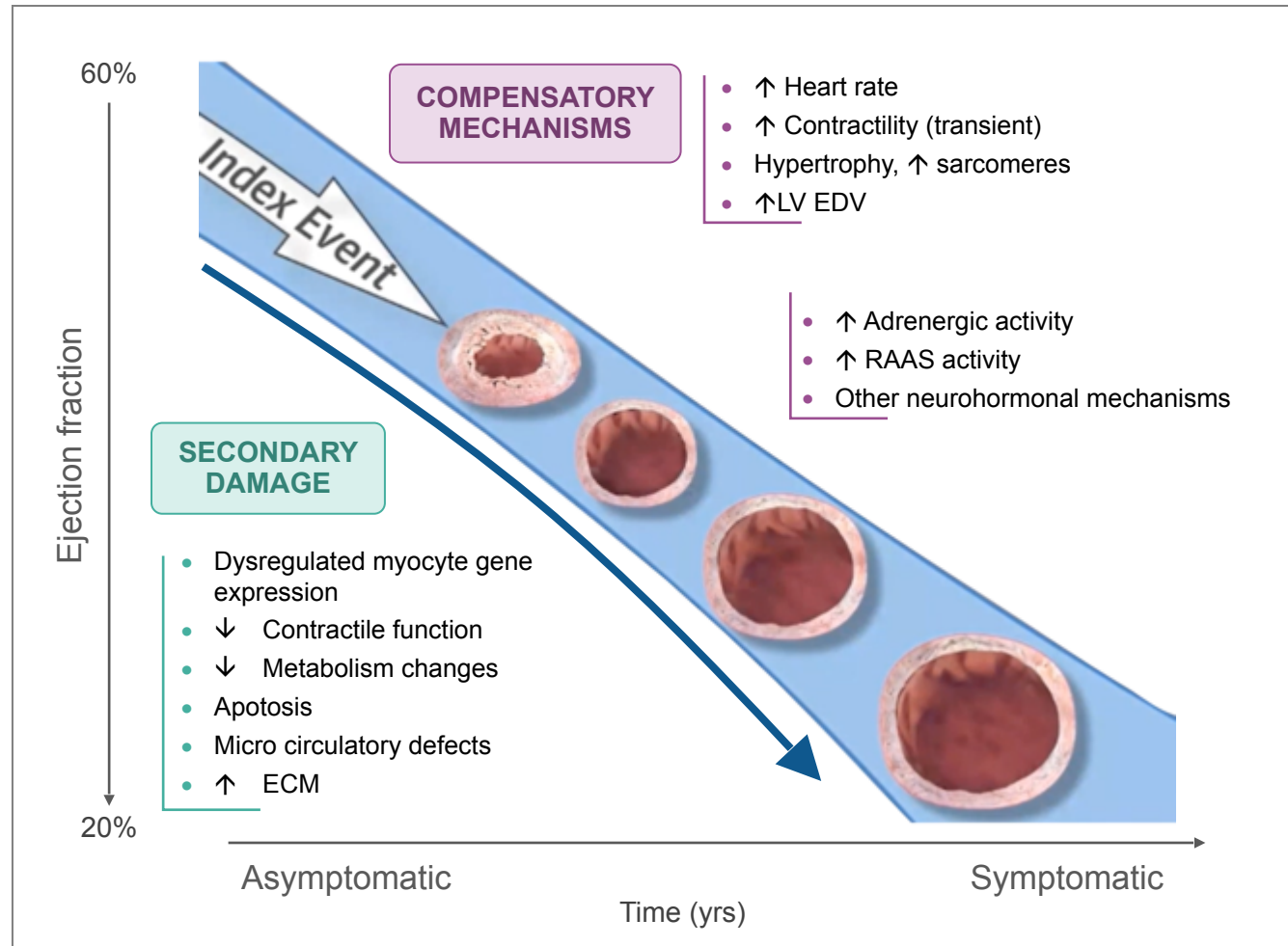
Long-term Surveillance for CTRCD

Baseline risk of cardiotoxicity	During chemotherapy	Following chemotherapy
Low	<ul style="list-style-type: none"> • Baseline • Following cycle completing cumulative lifetime dose of 240mg/m² doxorubicin or equivalent • Every additional 100mg/m² doxorubicin above 240 mg/m² or every 2 cycles 	<ul style="list-style-type: none"> • 12 months after final cycle • 5 yearly review
Medium	<ul style="list-style-type: none"> • Baseline • Following 50% of planned total treatment or every 2 cycles (optionnal) • Following cycle completing cumulative lifetime dose of 240mg/m² doxorubicin or equivalent 	<ul style="list-style-type: none"> • 12 months after final cycle • 5 yearly review
High	<ul style="list-style-type: none"> • Baseline • Every 2 cycles • Consider after every cycle above 240mg/m² doxorubicin or equivalent 	<ul style="list-style-type: none"> • 6 months after final cycle • 12 months after final cycle • Annualy for 2 or 3 years thereafter, and then in 3 to 5 years intervals for life

CTRCD : Cancer therapy-related cardiac dysfunction

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Cardiac Dysfunction – A Progressive Disease



CTRCD : Cancer therapy-related cardiac dysfunction

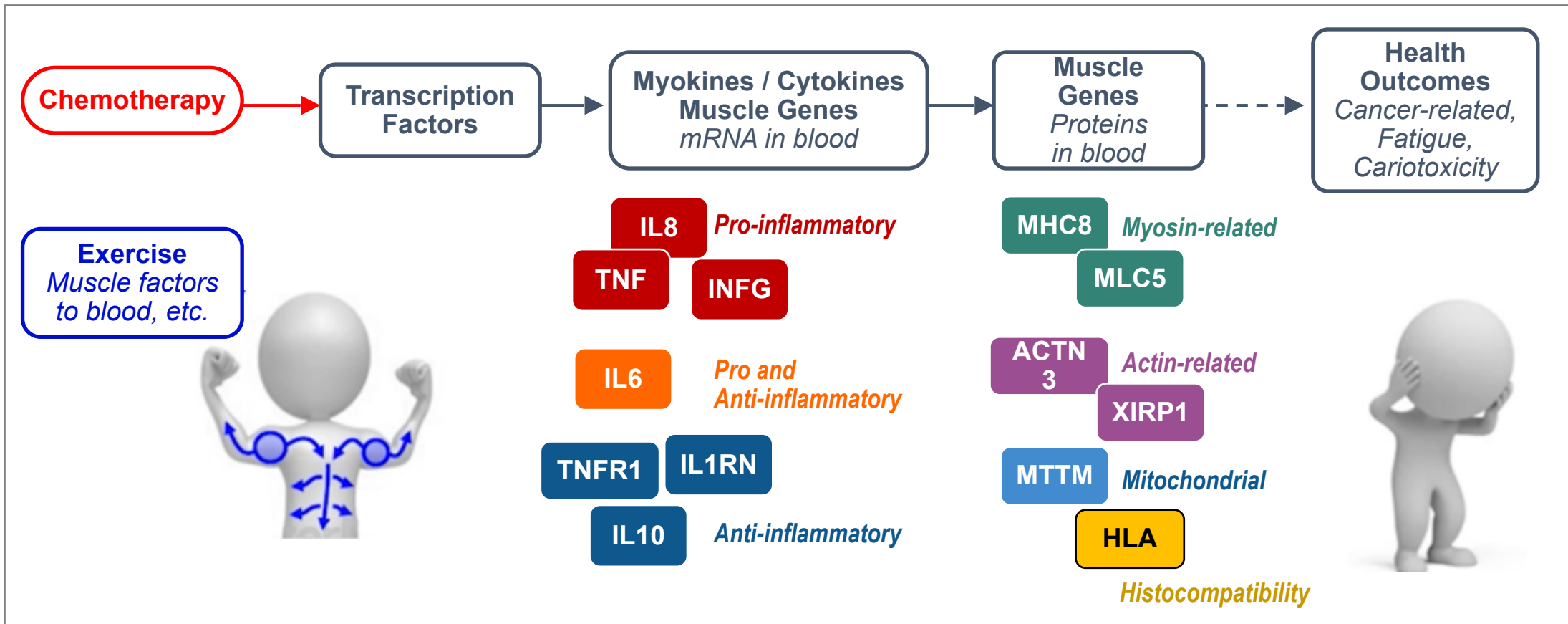
● Genetic and Epigenetic Role of Muscle in Cardiotoxicity and Cancer Related Fatigue

Mustian K. et al. - MASCC® 2021 - Parallel Session

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Influence of Exercise

From Genetics to Signaling Processes to Fatigue and Cardiotoxicity



● Comparison of Physical, Emotional, and Cognitive Fatigue Across Different Cancer Entities

Schmidt M. et al. - MASCC® 2021 – 0PP4 - Parallel Session

Comparison of Physical, Emotional, and Cognitive Fatigue Across Different Cancer Entities

Physical, emotional, and total fatigue adjusted by age, sex, BMI and cancer treatment

Entity	Physical fatigue		Emotional fatigue		Total fatigue	
	Adjusted mean (95%CI)	P (difference to breast cancer)	Adjusted mean (95%CI)	P (difference to breast cancer)	Adjusted mean (95%CI)	P (difference to breast cancer)
Stomach	69,4 (61,6-77,2)	0,0004	42,4 (35,0-49,9)	0,0047	50,0 (43,5-56,4)	0,0013
Lung	66,9 (55,8-78,0)	0,034	39,5 (28,9-50,1)	0,13	46,9 (37,7-56,0)	0,10
Kidney	66,6 (59,4-73,8)	0,0011	40,7 (33,9-47,6)	0,0069	47,8 (41,9-53,7)	0,0038
Pancreas	65,0 (53,5-76,5)	0,081	37,1 (26,1-48,1)	0,31	45,9 (36,4-55,4)	0,16
Endometrium	62,7 (55,3-70,1)	0,022	37,7 (30,6-44,8)	0,056	44,7 (38,6-50,8)	0,052
Liver	61,9 (50,4-73,4)	0,23	33,3 (22,3-44,3)	0,72	41,8 (32,3-51,3)	0,58
Leukemia	61,7 (53,9-69,4)	0,10	39,1 (31,7-46,6)	0,056	44,5 (38,1-50,9)	0,13
Ovaries/Cervix	61,5 (53,8-69,1)	0,079	38,2 (30,9-45,5)	0,063	43,5 (37,2-49,8)	0,17
Colon	61,5 (54,2-68,8)	0,07	36,6 (29,6-43,6)	0,14	43,9 (37,8-49,9)	0,12
Bladder	60,8 (53,2-68,8)	0,12	42,4 (35,1-49,6)	0,0036	44,8 (38,5-51,1)	0,082
Rectum	60,7 (53,6-67,7)	0,097	41,9 (35,1-48,6)	0,0020	45,4 (39,5-51,2)	0,034
Malignant melanoma	60,4 (53,1-67,8)	0,12	38,4 (31,3-45,4)	0,046	43,1 (37,0-49,2)	0,19
Non-Hodgkin lymphoma	59,2 (52,5-66,0)	0,22	35,5 (29,1-41,9)	0,23	41,8 (36,2-47,3)	0,38
Prostate	55,8 (48,9-62,8)	0,76	36,2 (29,6-42,8)	0,14	40,6 (34,9-46,3)	0,59
Breast	54,8 (47,8-61,7)	Ref.	31,3 (24,7-37,9)	Ref.	39,1 (33,4-44,8)	Ref.

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Cognitive Outcomes of Phase 1 Trial of Novel Metalloporphyrin Radioprotectant and Radiosensitizer in Newly Diagnosed High Grade Glioma Patients

Peters K. - MASCC® 2021 - Cancer Related Cognitive Impairment in Patients with CNS Tumors: Are We Making Progress? Oral Proffered Paper 4

Cognitive Outcomes of Phase 1 Trial of Novel Metalloporphyrin Radioprotectant and Radiosensitizer in Newly Diagnosed High Grade Glioma Patients

Results of a Phase 1 study with BMX-01

- ▶ Cognitive impairment is a concern in patients undergoing cerebral radiotherapy
- ▶ Metalloporphyrines have both radioprotectant effect for normal cells and radiosensitizing effect for tumor cells
- ▶ **Phase 1 study with BMX-01**
 - Part of metalloporphyrines family
 - First in human
 - Given subcutaneously , twice a week
- ▶ **Cognitive status was evaluate in different dimensions**
 - Visual and verbal memory, psychometric tests, executive functioning, processing speed ...
 - Before treatment and 2 and 6 month after radiotherapy completion
- ▶ **Results (15 patients included)**
 - Radiotherapy was associated with temozolomide
 - Tolerance profile was good, dose limiting toxicity was hypotension
 - Cognitive function was improved for a majority of patients

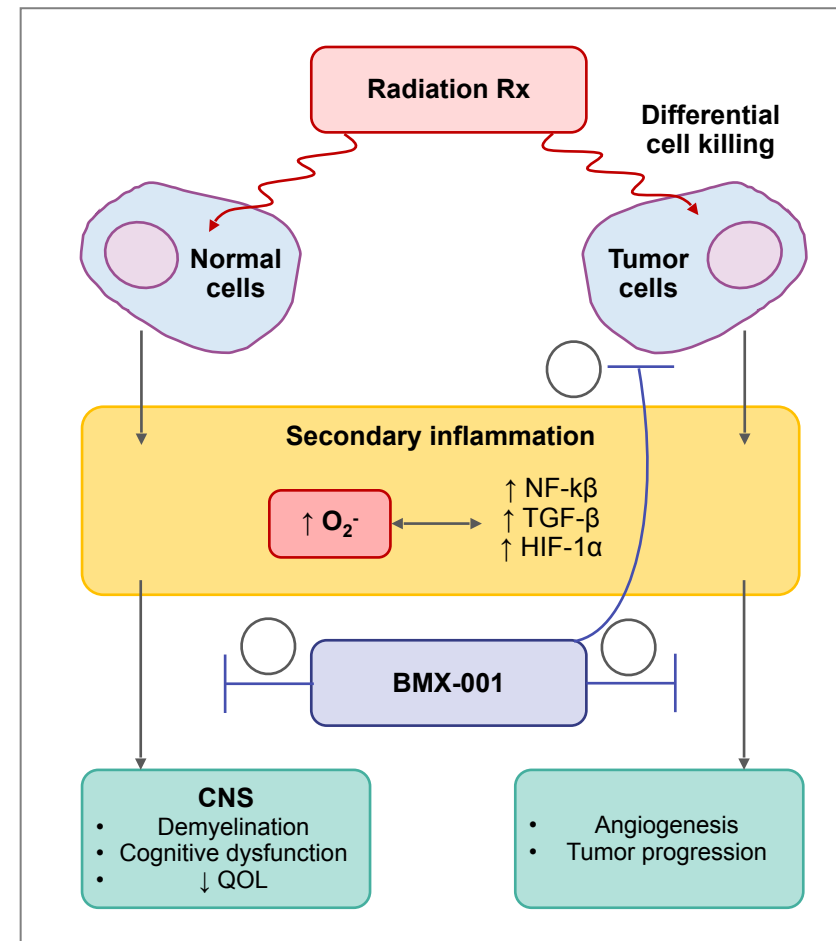
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Phase 1 Trial of Novel Metalloporphyrin Radioprotectant and Radiosensitizer in Newly Diagnosed High Grade Glioma Patients

Mechanisms of a potential impact of BMX-01 on Cognitive Outcomes

- ▶ Metalloporphyrins have redox activity
- ▶ BMX-01 is a potent superoxyde mimetic
 - Could prevent CNS side effects
 - With radio sensitizing properties

▶ **Phase 1 study with BMX-01 shows promising results**
Phase 2 study is ongoing



Scientific Societies Corner (Joint sessions)

EONS[®]/ISNCC[®]/ONS[®]/MASCC[®]

Charalambous A. et . *et al.* - MASCC[®] 2021 - Cancer nursing models and interventions in supportive care: a review of the evidence

MASCC[®] - JASCC[®] : Patients with Rare Cancers

Gatellier L. . *et al.* - MASCC[®] 2021 - Joint Session with JASCC/MASCC – Cancer of Unknown Primary and Rare Tumours

Nurses Meetings: towards IPAs

Gyldenvang H. H. *et al.* - MASCC[®] 2021 - , eposter

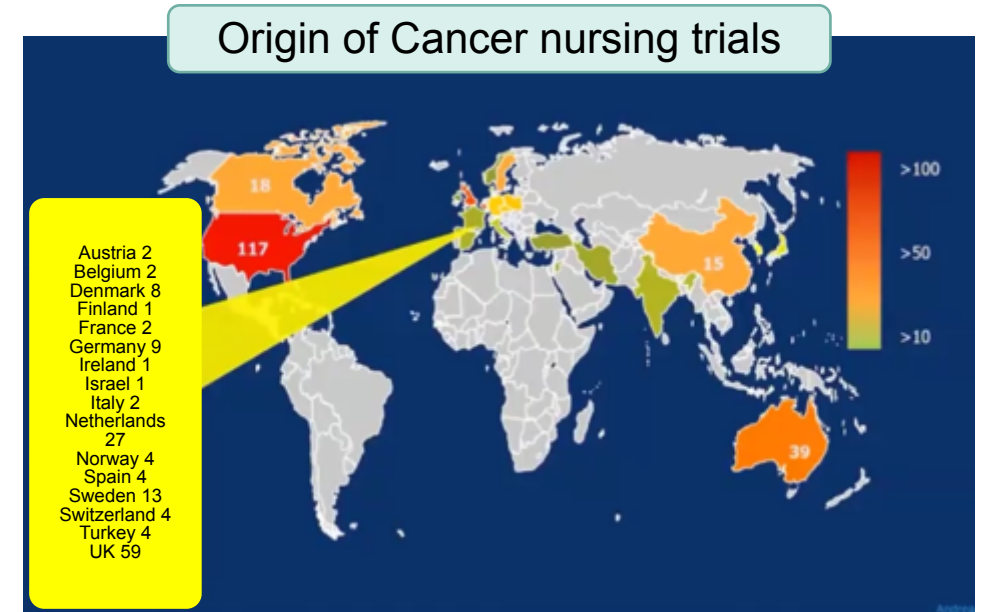
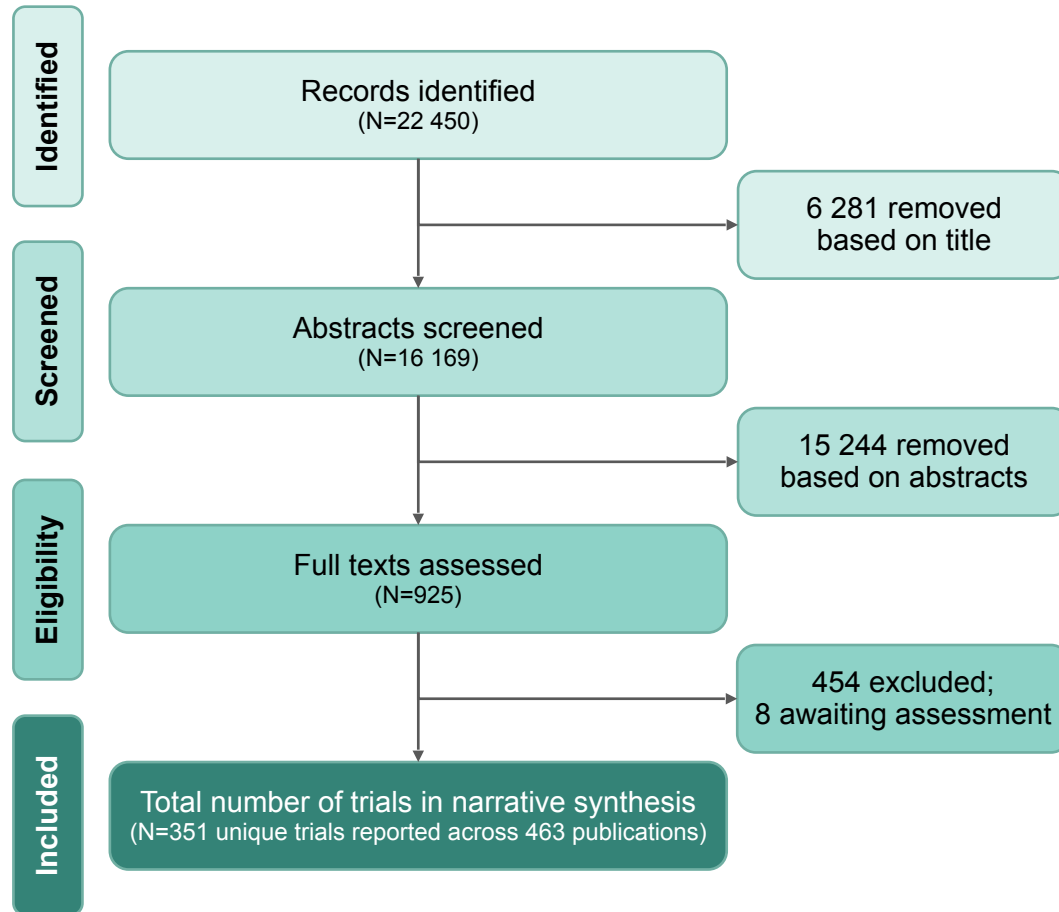
Joint session: EONS/ISNCC/ONS/MASCC

Dr A. Charalambous

**Cancer nursing models and interventions
in supportive care: a review of the evidence**

Methodology

Database selection

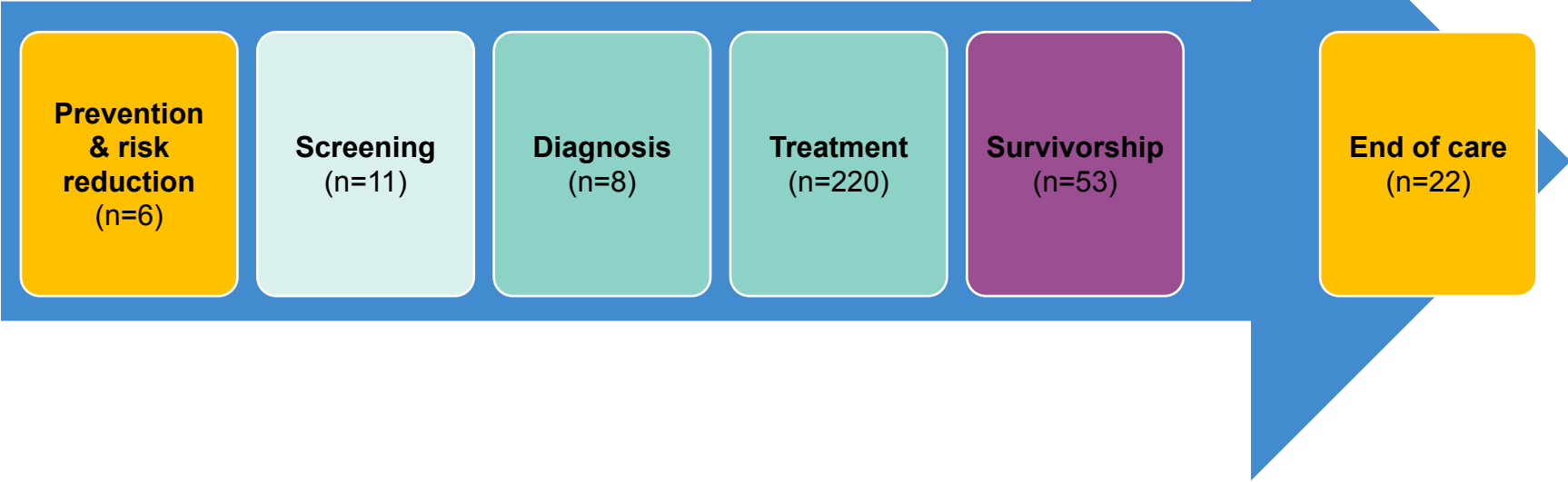




Methodology

Sélection de la base documentaire

Focus within cancer care continuum



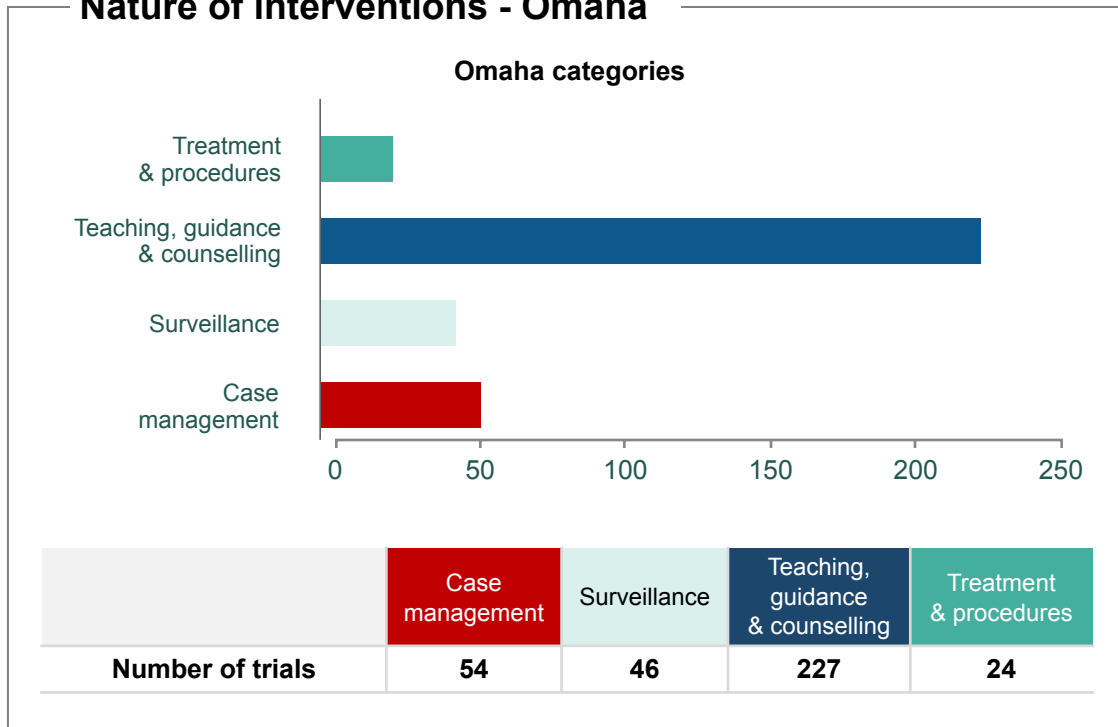
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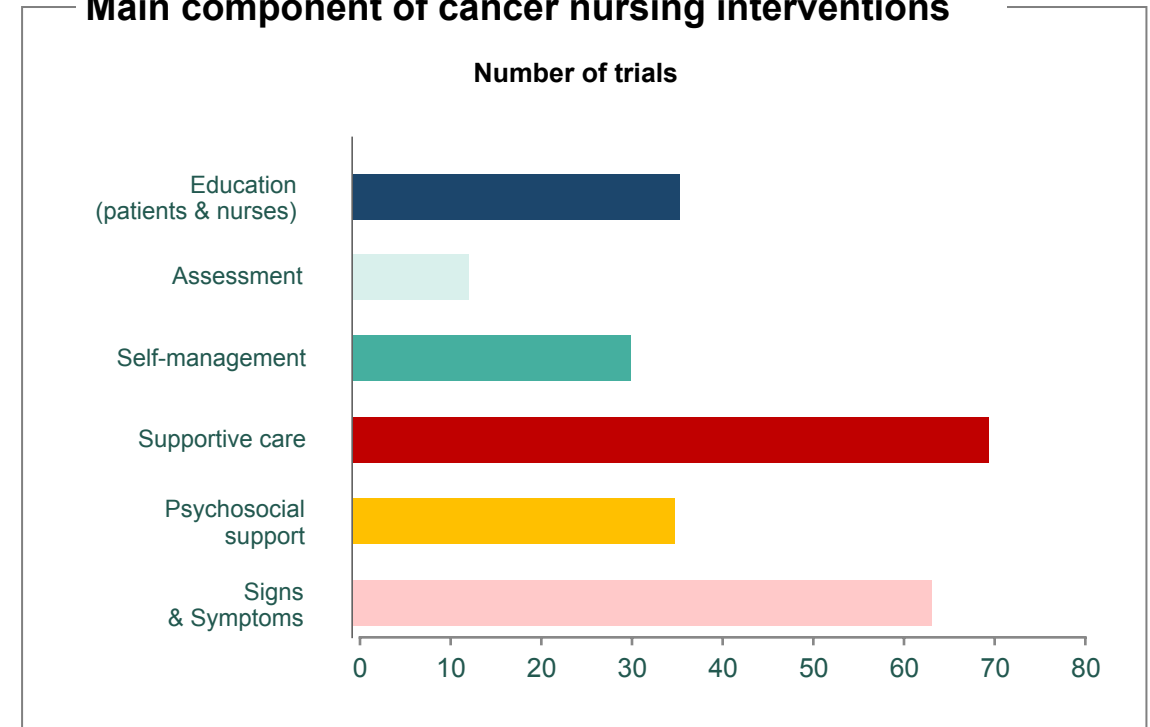
Methodology

Database selection

Nature of interventions - Omaha



Main component of cancer nursing interventions



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Meta-analysis

EORTC QLQ C-30

Global QoL

- Evidence of beneficial effect of nurse-led interventions compared with control (usual care / attention control)

Heterogeneity : $Tau^1 = 4.67$; $Chi^2 = 16.95$; $df = 9$ ($p=0.05$); $I^2 = 47%$
 Test for overall effect: $Z = 2.35$ ($p=0.02$)

Footnotes

(1) Mean and SD calculated from median and IQR data
 (2) Means and SD calculated from median and IQR data

Emotional function

- No evidence of benefit or harm of nurse-led interventions compared with control (usual care / attention control)

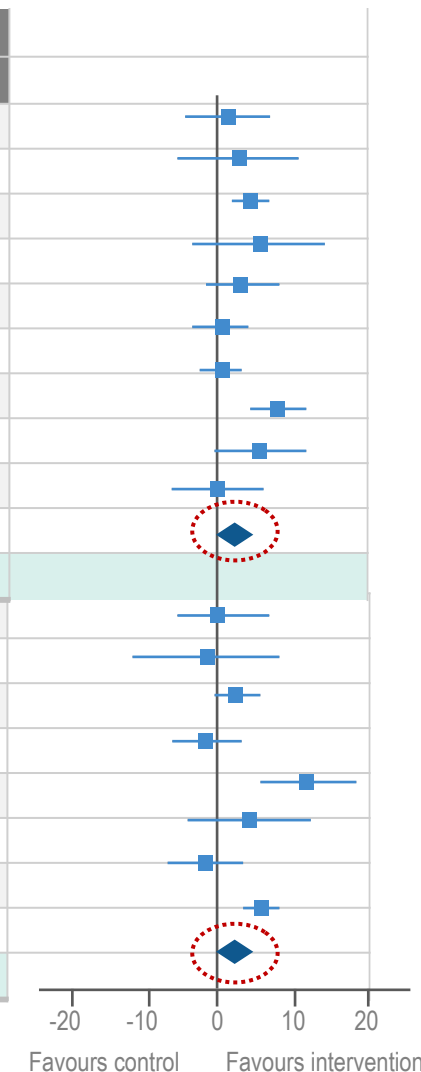
Heterogeneity : $Tau^1 = 9.58$; $Chi^2 = 14.45$; $df = 7$ ($p=0.01$); $I^2 = 62%$
 Test for overall effect: $Z = 1.66$ ($p=0.10$)

Footnotes

(1) Mean and SD calculated from median and IQR data

Study or subgroup	Intervention			Control			Weight	Mean difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
Cheng 2013	53.03	14.76	45	52.42	14.6	41	7.7%	0.62 (-5.59;6.83)
De Wit 2001	51.7	21.7	53	49.4	22.2	51	4.8%	2.30 (-6.14; 10.74)
Faithfull 2001 (1)	72.75	6.25	55	68.75	6.25	44	18.0%	4.00 (1.52; 6.48)
Kim 2011	73.33	17.6966	23	68.02	16.1819	22	3.7%	5.31 (-4.59; 15.21)
Kim 2013	40	17	54	38	12	54	8.9%	2.00 (-3.55; 7.55)
Kimman 2007	74.4	17.4	150	74.7	16.9	149	13.1%	-0.30 (-4.19; 3.59)
Moore 2002 (2)	66.18	9.03	76	66.68	9.62	74	16.1%	-0.50 (-3.49; 2.49)
Walker 2009a	56.8	22.8	253	49	21.8	247	13.0%	7.80 (3.89; 11.71)
Walker 2009b	50.5	18.8	59	15.1	16.7	70	7.7%	5.40 (-0.79, 11.59)
Yates 2004	52.8	22.8	87	53.8	20.5	79	7.1%	-1.00 (-7.59; 5.59)
Total (95% CI)			855			831	100%	2.49 (0.41; 4.57)
Cheng 2013	56.49	15.16	45	56.06	16.96	41	10.2%	0.43 (-6.39; 7.25)
De Wit 2001	67.4	24.5	53	69.1	27.3	51	6.2%	-1.70 (-11.74; 8.34)
Faithfull 2001 (1)	89.75	6.25	54	87.75	8.25	43	18.6%	2.00 (-0.98; 4.98)
Jefford 2013	81.8	18.4	96	81.2	18.9	107	13.5%	-1.40 (6.54; 1.74)
Kim 2011	84.01	9.5315	23	72.17	33.9305	22	9.8%	11.84 (4.77; 18.91)
Kim 2013	58	20	54	54	24	54	8.0%	4.00 (-4.33; 12.33)
Kimman 2007	73.9	20.9	150	75.6	21.7	149	14.2%	-1.70 (-6.53; 3.13)
Moore 2002 (3)	82.8	9	76	77.1	7.23	74	19.5%	5.70 (3.09; 8.31)
Total (95% CI)			551			541	100%	2.48 (-0.44; 5.39)

QOL = Quality of Life



Meta-analysis

EORTC QLQ C-30

EORTC QLQ C-30: social function Evidence of beneficial effect of nurse-led interventions compared with control (usual care / attention control)

Social function

- ▶ Evidence of beneficial effect of nurse-led interventions compared with control (usual care / attention control)

Heterogeneity : $Tau^2 = 14.06$; $Chi^2 = 22.49$; $df = 9$ ($p=0.007$); $I^2 = 60\%$
Test for overall effect: $Z = 3.64$ ($p=0.0001$)

Footnotes
(1) Mean and SD calculated from median and IQR data

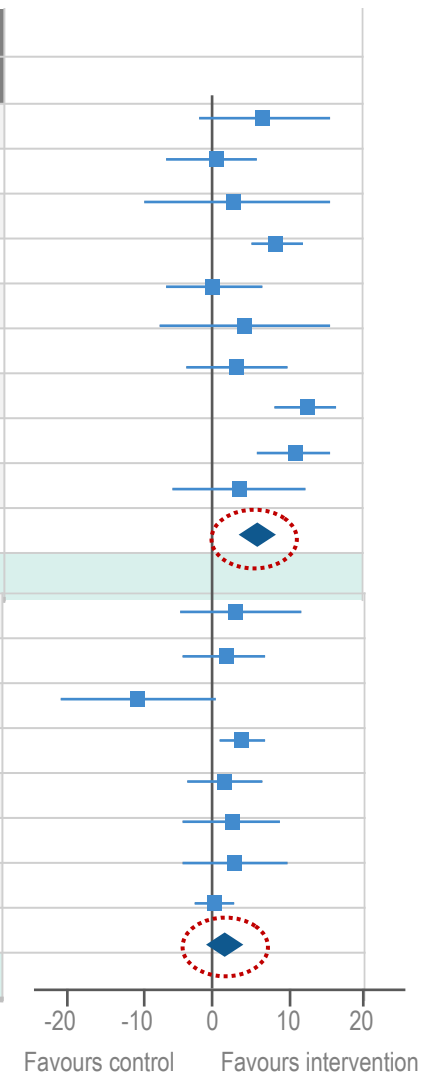
Emotional function

- ▶ No evidence of benefit or harm of nurse-led interventions compared with control (usual care / attention control)

Heterogeneity : $Tau^2 = 1.18$; $Chi^2 = 8.20$; $df = 7$ ($p=0.32$); $I^2 = 15\%$
Test for overall effect: $Z = 1.61$ ($p=0.11$)

Footnotes
(1) Mean and SD calculated from median and IQR data

Study or subgroup	Intervention			Control			Weight	Mean difference IV, Random, 95% CI
	Mean	SD	Total	Mean	SD	Total		
Aaronson 2010	74.6	22.7	69	67.9	29.1	66	7.7%	6.70 (-2.13; 15.53)
Cheng 2013	47.24	14.44	45	47.35	14.23	41	11.2%	-0.11 (-6.17; 5.95)
De Wit 2001	65.1	33.4	53	62.1	12.2	51	4.8%	3.00 (-9.61; 15.61)
Faithfull 2001 (1)	91.75	8.25	53	83.25	8.25	44	15.7%	8.50 (5.20; 11.80)
Jefford 2013	79.8	23.6	96	79.7	23.3	107	10.6%	0.10 (-6.36; 6.56)
Kim 2011	86.18	18.404	23	81.91	21.2007	22	5.4%	4.27(-7.37; 15.91)
Kim 2013	35	17	54	32	18	54	10.4%	3.00 (-3.60; 9.60)
Moore 2002	83.33	9.62	76	70.85	14.45	74	14.7%	12.45 (8.54; 16.42)
Walker 2009a	62.2	31.8	253	51.3	29.8	247	12.3%	10.90 (5.50; 16.30)
Walker 2009b	57.3	28.6	59	54.2	25.2	71	7.2%	3.10 (-6.26; 12.46)
Total (95% CI)			781			777	100%	5.92 (2.73; 9.12)
Aaronson 2010	73.6	24.8	69	70.2	23.1	66	5.5%	3.40 (-4.68; 11.48)
Cheng 2013	59.73	12.35	45	57.93	11.28	41	11.4%	1.80 (-3.64; 7.24)
De Wit 2001	72.6	30	53	82.5	23.6	51	3.5%	9.90 (-20.25; 0.45)
Faithfull 2001 (1)	91.75	8.25	52	87.75	8.25	44	25.0%	4.00 (0.69; 7.31)
Jefford 2013	83.2	18.6	96	81.8	18.5	107	12.6%	1.40 (-3.71; 6.51)
Kim 2011	83.44	8.8723	23	81.05	14.3996	22	7.2%	2.39 (-4.64; 9.42)
Kim 2013	57	20	54	54	17	54	7.2%	3.00 (-4.00; 10.00)
Moore 2002	83.33	9.62	76	83.33	9.62	74	27.6%	0.00 (-3.08; 3.08)
Total (95% CI)			468			459	100%	1.61 (-0.35; 3.58)



● Patients with Rare Cancers: Do They Need Specialist Supportive Care?

*Gatellier L- MASCC® 2021 - Joint Session with JASCC/MASCC –
Cancer of Unknown Primary and Rare Tumours*

Patients with Rare Cancers: needs for informations

Results of a survey in 502 adults cancer patients in Japan

- ▶ Source of information related to the disease itself, side effects and complications, *etc.*
 - General trends :

- ▶ Additionally, **44%** of rare cancer patients considered that they could not find sufficient information related to their disease, complications and side effects
 - To fill this gap :

Source	N=502
Internet	428 (85%)
Hospital, physician	332 (66%)
Patient groups	331 (66%)
Pamphlets/magazines/newspapers	142 (28%)

Extracted from free text	N=44
Blogs	7 (25%)
Seminars/public lectures/conferences	6 (21%)
TV/Radio	5 (18%)
Personal connections	8 (29%)
Specialists	2 (7%)

A patient perspective on patient needs in supportive care

► Global overview from patient associations

- **United States: AACR** Survivor/ Scientist Program Patients Advocate
 - ASCO recommendations: access to supportive care for all patients at cancer diagnosis
 - Not often done in real life, depending of cancer center local situation
 - Lack of knowledge about supportive care local resources both from patients and physicians
 - Lack of coordination around the patient
- **Europe: EUPATI** -European Patients' Academy on Therapeutic Innovation - Patients Experts
 - Multidisciplinary meetings are welcomed
 - Access to supportive care seems correct in the hospital
 - The patient feels lost at home, because of the lack of coordination outside the hospital

► Solutions:

- **Systematic evaluation of patient need for supportive care at diagnosis**
- **Grant access to patient associations**
- **Implement effective patient care coordination**

● Nursing consultation

Gyldenvang H. H. et al. - MASCC® 2021 - eposter

Nurse-led Consultation for patients diagnosed with breast or gynecological cancer – A pilot study

RESULTS_Patient's satisfaction (n=109)

	To a high degree N(%)	To somewhat degree N(%)	To a minor degree N(%)	Almost not N(%)	Not at all N(%)	Not relevant N(%)
I received a fulfilling answer to my question ¹	93 (85,3%)	13 (11,9%)				
The addressed topics were important to me	100 (91,7%)	9 (8,3%)				
I was provided with sufficient and appropriate knowledge on how to manage my side-effects ²	84 (77%)	14(12,8%)			1 (0,9%)	7 (6,4%)
I received support to handle any emotional reactions e.g. distress or anxiety (2 missing data)	58 (53,2%)	17 (15,6%)	3 (2,8%)		2 (1,8%)	27 (24,8%)
It was my impression that i could be referred to a physician in case I had the need ²	55 (53,2%)	17 (15,6%)	3 (2,8%)		2 (1,8%)	27 (24,8%)
The CNS listened to me	1,6 (97,2%)	3 (2,8%)				

**Only the questions that were common for both gynecological and breast cancer are present*

1 Missing data (N=3)

2 Missing data (N=2)

CNS = Clinical nurse specialist

Nurse-led Consultation for patients diagnosed with breast or gynecological cancer – A pilot study

RESULTS: nurses perspectives (n=10)

