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#### Nurse Navigation Supports Implementation of Guideline Based Care

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# **Nurse Navigation Supports implementation of Guideline Based Care**

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## Background

-2022 ESC guidelines are first published by large multi-national cardiovascular professional society with both cardiology and oncology participation

-CV risk factors, cancer type and treatment have unique treatment

#### **Key program questions** to address

What guidelines and resources are available for cardio-oncology planning?

What is the practice for

### Results

-Through program discussion, 2022 ESC guidelines are internationally recognized and utilized by providers during consults. These guidelines are readily available and can be utilized by nursing as well.

-Surveillance is dependent upon patient risk level and requires a complete risk assessment for individual therapies.

considerations

-Barriers to guideline application may differ between institutions but include completion of imaging and blood work, finalized oncology treatment plan, and incomplete baseline CV assessment

-Steps to actualize guidelines into practice are not included in guideline and are recognized as potentially unfeasible

#### Institution

# **Background & Methods**

cardiac surveillance, and for what treatment regimens?

What infrastructure changes are needed by cardiology to facilitate surveillance?

Example of process using 2022 ESC guideline risk stratification

- Obtain treatment plan
- Collect existing patient data
- -Identify gaps between patient data and guidelines
- -Order testing as needed prior to initial consult

-Triage of referral by nurse navigation includes initial ESC risk stratification and identifies gaps. Pre-visit testing orders are then placed by navigator for patients as needed and reviewed/ signed by prescribing provider.

-Echoes scheduled prior to visit as needed and reminders made to all patient to have other pre-visit testing complete.

## Conclusions

Initial cardio-oncology consult is more complete utilizing this process, allowing for individualized risk assessment and care planning. Specialist is then able to make immediate recommendations, important given time sensitive course of care. Nurse navigator review of patients is needed for timely identification of barriers to incorporating comprehensive CV risk factors and guideline base therapies.

-Community based cardio-oncology program within nonprofit healthcare system

-Risk stratification previously done at initial consult

-Referrals primarily received from oncologists and breast surgery

-2-3 providers from cardiology seeing referrals to cardio-oncology specialty. 1 Certified by ICOS in cardio-oncology. Silver Center of Excellence

-Prior nurse navigator time-share between other cardiac specialty. Time-share scheduler. Medical assistants and sonographers from within cardiology department.

2. Cardiovascular toxicity risk stratification before anticancer therapy

2.1. General approach to cardiovascular toxicity risk in patients with cancer

Table S2 Baseline cardio	vascular tox	idty risk as-
sessment of patients trea	ated with a	anthracycline
chemotherapy		
Risk factor	Score	Level of
		evidence
Previous CVD		
HF or cardiomyopathy	Very high	В
Severe VHD	High	С
M or previous coronary	High	С
revascularization (PCI or CABG)		
Stable angine	Hgh	С
Cardiac imaging		
Baseline LVEF < 50%	High	в
Borderine LVEF 50-54%	Medium2	с
Cardiac biomarkers (where availa	ble)	
Bevated baseline troponin*	Mediumi	С
Bevated baseline BNP or	Madium1	С
NT-proBNP*		
Demographic and CVRF		
Age≥80 years	Høh	В
Age 65-79 years	Medium2	в
Hypertension <sup>b</sup>	Mediumi	в
DMF	Medium1	C
Chronic kidney disease <sup>d</sup>	Medium1	С
Previous cardiotoxic cancer treat	ment	
Previous anthracycline exposure	Hgh	В
Prior RT to left chest or mediastinum	High	с

#### References

Lyon, A. R., Lopez-Fernandez, T., Couch, L. S., Asteggiano, R., Aznar, M. C., Bergler-Klein, J., ... & Van Der Pal, H. J. (2022). 2022 ESC Guidelines on cardio-oncology developed in collaboration with the European Hematology Association (EHA), the European Society for Therapeutic Radiology and Oncology (ESTRO) and the International Cardio-Oncology Society (IC-OS) Developed by the task force on cardio-oncology of the European Society of Cardiology (ESC). European Heart Journal-Cardiovascular Imaging, 23(10), e333-e465.

Nolan, M. T., Creati, L., Koczwara, B., Kritharides, L., Lynam, J., Lyon, A. R., ... & Sverdlov, A. L. (2022). First European Society of Cardiology Cardio-Oncology Guidelines: a big leap forward for an emerging specialty. Heart, Lung and Circulation, 31(12), 1563-1567.

-Addition of full time nurse

#### navigator October 2023 allowed for increased surveillance and

monitoring

Previous non-anthracycline-based Mediumi chemotherapy Lifestyle risk factors Current smoker or significant Mediumi smoking history Obesity (BMI > 30 kg/m<sup>2</sup>) Mediumi Adapted from Lyon et al. (2020)<sup>20</sup> with permission. BMI, body mass index; BNP, B-type natriuretic peptide; BP, blood pressure; CABG, coronary attery bypass graft; CVD, cardiovascular disease; CVRF, cardiovascular risk factors; DM, diabetes melitus; eGIR, estimated glomerular filtration rate; HbA1c, glycated haemoglobin; HF, heart failure; LVEF, left ventricular ejection fraction; MI, myocardial infarction; NT-proBNP, N-terminal pro-B-type natriuretic paptide; PCL percutaneous coronary intervention; RT, radiotherapy; ULN, upper limit of normal; VHD, valvular heart disease. Risk level Lowrisk, no risk factors OR one medium 1 risk factor; medium risk, medium risk factors with a total of 2-4 points; high risk, medium risk factors with a total of ≥5 points OR any high risk factor; very high risk, any very high risk factor. Medium1 = 1 point. Medium2 = 2 points. "Bevated above the ULN for local laboratory reference range. "Systolic BP > 140 mmHg or disatolic BP > 90 mmHg or on treatment. "HbA1c > 7.0% or >53 mmol/md, or on treatment. <sup>4</sup>eGFR < 60 mL/min/1.73 m<sup>2</sup>.

Sadler, D., Chaulagain, C., Alvarado, B., Cubeddu, R., Stone, E., Samuel, T., ... & Nahleh, Z. (2020). Practical and cost-effective model to build and sustain a cardio-oncology program. Cardio-Oncology, 6, 1-10.

Teske, A. J. (2023). The ESC cardio-oncology 2022 guidelines; the ball is in our court. European Heart Journal-Cardiovascular Imaging, 24(3), e45-e46.

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