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What is your medical specialty? Cardiologist Medical Oncologist Radiation Oncologist Other, please specify
≣ In which province do you practice?
Newfoundland Labrador Nova Scotia Prince Edward Island New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Nunavut Northwest Territories Yukon
■ What is your practice setup?
Academic institution Community centre Private practice Other, please specify
How many years have you been in practice? 0-5 years 6-10 years 11-15 years 16-20 years > 20 years
Are you familiar with the terms 'cardiac oncology', 'cardio-oncology', 'cardioncology' or 'onco-cardiology'? Yes No Not sure
Do you have a dedicated cardiac oncology clinic at your institution? Yes No Not sure
If yes, have you referred a patient or seen a patient in such a clinic? ✓ Yes ✓ No
Do you feel that cardiac issues are clinically important in cancer patients? Yes

○ No ○ Not sure	
In a patient with cancer, do you think diagnosing heart problems has any impact on their cancer prognosis? Yes No Not sure	
How important is cardiology research in the cancer patient population? Not important Somewhat important Very important Essential Not sure	
 Is there an established definition of cardiotoxicity? ✓ Yes ✓ No ✓ Not sure 	
Is cardiotoxicity limited to cardiac muscle damage?	
Do you think that chemotherapy or radiation treatment for cancer is an important risk factor for heart disease? Not important Somewhat important Very important Essential Not sure	
In patients being actively treated for cancer, to what extent do you feel a cardiologist should be involved in their mar No need Rarely Sometimes Often Always needed Not sure	nagement?
Do you think that cardiac medications protect the heart for patients being actively treated for cancer? Yes No Not sure	
Do you think that cardioprotective medications should be considered in most patients being actively treated for cance Yes No Not sure	er?
How important is it to consider possible cardiac problems during treatment for cancer? Not important Somewhat important Very important Essential Not sure	

How important is it to consider possible cardiac problems in cancer survivors (patients with no active cancer who were treated at least 2-5 years ago)?
 Not important Somewhat important Very important Essential Not sure
Do you consider a recent history of cancer requiring systemic treatment to have an important impact on your choices of cardiac specific therapy? No impact Little impact Moderate impact Major impact Cardiac treatment should be minimized in patients being treated with cancer Not sure
Cardiac Monitoring
Do you follow a protocol for ejection fraction (EF) monitoring in cancer patients? If yes, please specify. Yes (please specify) No Not sure
■ What image modalities do you use to monitor EF in cancer patients?
C Echo (please specify EF %) MUGA (please specify EF %) Both (please specify EF % for both) Other, please specify Not sure
₩ho do you refer to cardiology?
 All patients Only those with a known cardiac issue Patients with risk factors for cardiac disease Not sure Other, please specify
Cancer Treatment
Do you interrupt cancer therapy for patients with low ejection fraction? Yes No Not sure
If yes, at which EF?
 C ≤ 50% C ≤ 45% C ≤ 40% C A drop ≥ 15% C Other, please specify
For what cardiac related clinical reason(s) would you interrupt cancer therapy? Please check all that apply.
☐ Decreased EF

☐ Uncontrolled hypertension ☐ Angina ☐ Other, please specify ☐ Not sure
When do you resume cancer therapy? EF normal EF mildly reduced EF moderately reduced Clinical status Not sure
Cardiac Treatments
At what EF would you initiate cardiac treatment? All abnormal EF values If EF does not rise after cancer therapy discontinuation If repeat EF remains abnormal Not sure Other, please specify
What treatment(s) do you initiate first? Angiotensin converting enzyme inibitors (ACEi) first Beta Blockers (BB) first Not sure Other, please specify
Do you routinely prescribe aldosterone antagonists for cancer-related cardiotoxicity? Yes No No Not sure
Do you investigate for coronary artery disease? If yes, specify with which modality. Yes (please specify modality) No Not sure
Long Term Follow Up
Do you follow all cancer patients with a history of cardiac toxicity? Yes No
If yes, how long do you follow these patients for? 0-3 months 3-6 months 6-12 months > 12 months Other, please specify
Do you continue cardiac medications in all patients with a history of cardiac toxicity? Yes No Depends on patient's cardiac risk factors Not sure

If yes, for how long?
 0-3 months 3-6 months 6-12 months > 12 months Indefinitely
How often do you monitor EF in patients with early stage breast cancer?
C Every 3 months C Every 6 months C Every 9 months C Every 12 months C Other, please specify
How often do you monitor EF in patients with metastatic breast cancer?
C Every 3 months C Every 6 months C Every 9 months C Every 12 months C Other, please specify
■ Cases
A 62 year old female is diagnosed with metastatic breast cancer to bone. Her tumor is estrogen/progesterone receptor negative and Her-2/neu receptor positive. She is initiated on systemic chemotherapy (docetaxel) and trastuzumab administered every 3 weeks. Her initial transthoracic echocardiogram reveals an ejection fraction of 53%. How often would you monitor this patient's ejection fraction while on trastuzumab therapy?
 Every 3 months Every 6 months Every 9 months Every 12 months Not sure Other, please specify
What is the optimal method of monitoring this patient's ejection fraction?
C Echocardiogram C MUGA Not sure C Other, please specify
A 50 year old female has received 12 cycles of trastuzumab therapy for Her-2/neu positive metastatic breast cancer to liver. Her ejection fraction at baseline was 55%, but on repeat echocardiogram decreased to 30%. She has no cardiac symptoms. What would be your management of her trastuzumab therapy at this time?
Continue trastuzumab therapy at full dose Continue trastuzumab therapy at reduced dose Discontinue trastuzumab therapy and monitor EF. Resume trastuzumab if EF normalizes Discontinue trastuzumab therapy permanently Not sure Other, please specify
Trastuzumab therapy is discontinued, and an ACE inhibitor is initiated. Serial echocardiograms reveal an unchanged EF at 30%. The patient has no cardiac symptoms, however she is developing progressive metastatic disease. What management would you now recommend?
Resume trastuzumab at full dose with serial echocardiograms Resume trastuzumab at reduced dose with serial echocardiograms

Continue to hold trastuzumab therapy with serial echocardiograms
Pursue investigations for coronary artery disease
Optimize ACE inhibitor and add a beta blocker
○ Not sure
Other, please specify
A 58 year old male is receiving adjuvant infusional 5-fluorouracil for resected stage III colorectal carcinoma. He develops sudden chest pain and nausea, and presents to the emergency department. A 12 lead electrocardiogram reveals inferior ST segment elevation. He is managed medically with complete resolution of symptoms. A subsequent angiogram reveals no evidence of coronary artery disease. A follow-up echocardiogram reveals an EF of 58%. What would you now recommend for adjuvant chemotherapy?
Resume 5-fluorouracil at full dose
Resume 5-fluorouracil at full dose but administer with cardiac monitoring
Resume 5-fluorouracil at a reduced dose
Change chemotherapy to oral capecitabine
Change chemotherapy to intravenous raltitrexed
Discontinue adjuvant chemotherapy
O Not sure
Other, please specify