2022 Key Studies

Loss of Human Touch Nursing Intervention Strategies For Patient Engagement

Immunotherapy Patient Experience Infusion Reaction Management



What can be done to mitigate the impact of the loss of human touch?



Study Title:

Dealing with the loss of human touch during the pandemic for oncology patients

Impact of the pandemic on inpatient oncology patients At Cedars-Sinai Medical Center

Newly diagnosed or relapsed patients admitted through emergency department to the oncology unit

Patients are vulnerable; spiritually, emotionally, and physically

Patients are missing human touch when they need it the most



Study Objective: To increase touch, comfort, and warmth for oncology patients

Recognize the challenges faced

• Identify and discuss losses, personally, and in healthcare

• Provide a supportive and comforting environment



Personal and Healthcare Pandemic Related Loses

Touch			Connection	
Hugging, holding hand, shaking hands		Staff, Medical Team	Friends and Family	
No visitors	Faith	Hope	Unable to see their face	Unable to see their smile

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KEY DATA

Loss of Human Touch

Identified newly diagnosed patients

Oncology patients Stem cell transplant patients Solid organ transplant patients Oncology patients requiring surgical intervention

<u>March 2021 – February 2022</u>

Nursing leaders delivered specialty made blankets and beanies to 228+ patients

Handwritten cards with a personal message signed by the staff

Patients expressed gratitude

Tears

Words of thanks

Taking pictures

Social media posts

2nd Quarter of FY2022

Highest inpatient patient experience scores



- The loss of touch as a part of human caring in nursing has been a struggle for patients and nurses during the pandemic
- Gifting of a blanket, beanie, and personalized card introduced warmth, comfort, and touch back into the care of oncology patients

Implementing initiatives that can bring warmth, comfort, and touch back into the care of oncology patients will improve the patient experience, create a rewarding work environment, and strengthen the community



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Do nursing intervention strategies promote patient engagement and improve patient outcomes?



KEY DATA

Nursing Intervention Strategies

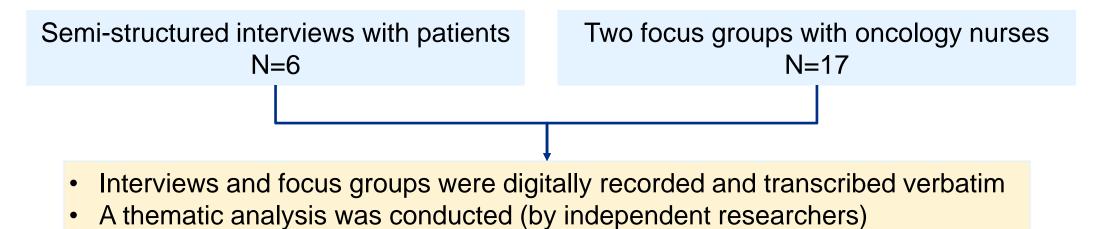
Study Title:

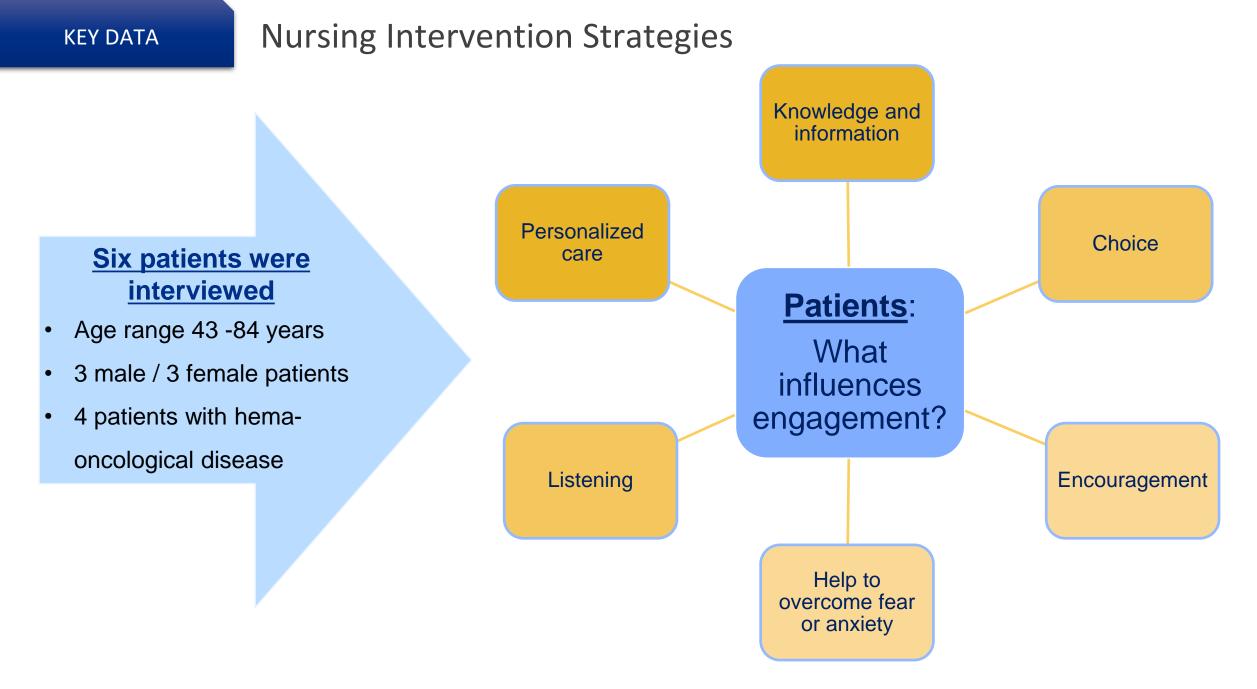
Nursing intervention strategies to promote patient engagement (PE) in cancer patients: a qualitative study

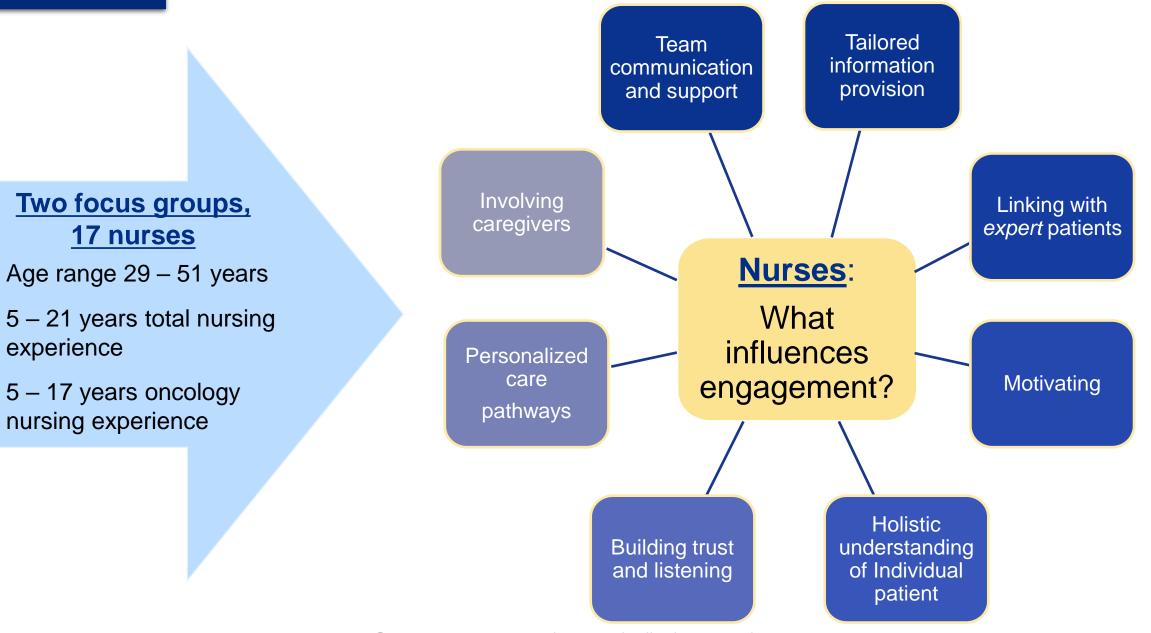
Study Objective:

- To explore patients' experiences of care regarding nursing behaviors/strategies
- To explore nurses' perceptions of behavior that they viewed as engaging for patients

Study Design: A qualitative study was performed during April – May 2021





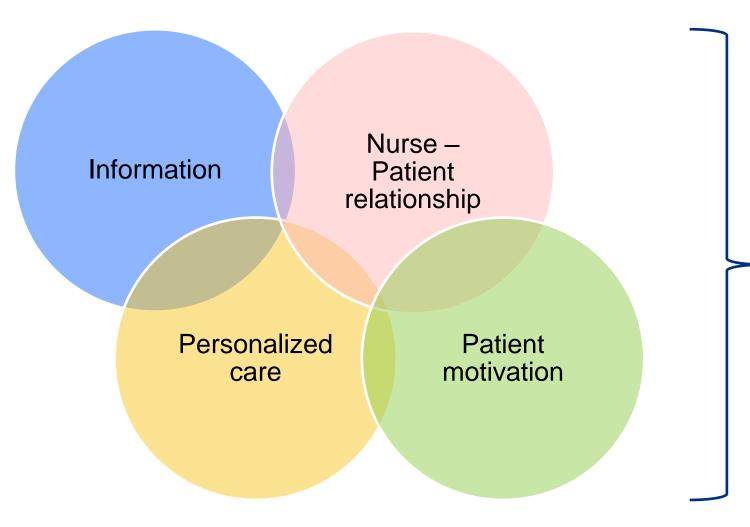


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KEY DATA



Four Common Themes Identified



Reflect the cognitive, emotional, and behavioral component which when activated give rise to the engagement process



- The use of several behaviors by nurses are perceived by <u>both</u> nurses and patients as promoting patient engagement
- Engaged patients are more actively involved in their care, informed and involved in decisions, and participate in self-care
- Engaged patients assume responsibility for the impact of their behavior on outcomes of care

Applying key strategies effective in promoting patient education and engagement results in engaged patients with positive effects on health outcomes, cost of care, and quality of life



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Immunotherapy Patient Experience Infusion Reaction Management



Does patient education improve the management of immunotherapy related side effects and the patient experience?



Immunotherapy extends the promise of longer life to cancer patients with severe disease

Immunotherapy is approved for more and more cancers e.g., melanoma and NSCLC since 2011

More patients eligible

More immune-related adverse events which can seriously compromise quality of life

KEY DATA

Immunotherapy Patient Experience

Study Title:

Immunotherapy Patient Experience: A Cross-sectional Survey of Patient Knowledge, Expectations, and Information Seeking Strategies

Study Objective:

 To characterize the experience of persons with cancer who have been treated with immunotherapy from the perspective of the patient

Study Design:

A cross-sectional survey addressed the range of patient experiences with immunotherapy side effects

1) Knowledge about treatment

2) Expectations about treatment 3) Experience with side effects

4) Information seeking strategies

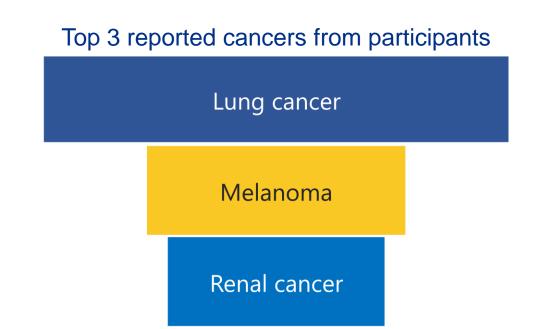
Patients receiving immunotherapy for cancer, age \geq 18 years, not on hospice

Data analysis includes descriptive statistics; free text responses will be analyzed with content analysis

KEY DATA

Immunotherapy Patient Experience

- 364 out of 940 (31%) potential participants responded to the survey
 - ¼ had a bachelors degree; ¼ had some college education
 - 35% 66-75 years old
 - 24% 56-65 years old
 - 12% 46-55 years old



Immunotherapy

- 34% reported taking Keytruda
- 22% answered not applicable
- 9% answered not sure

52% believed treatment would be effective/very effective

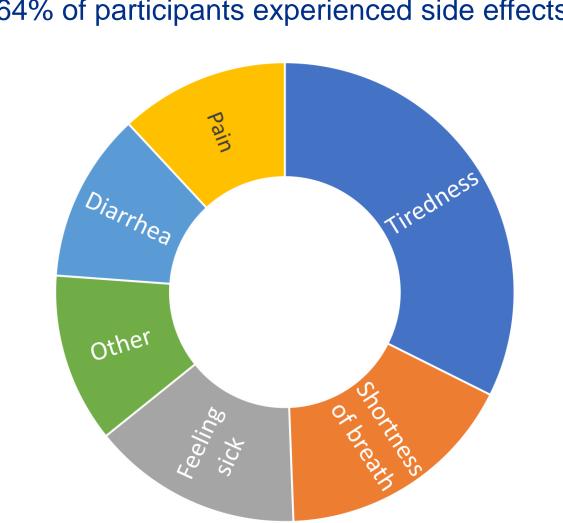
Top treatment expectations

"help me live longer"

"cure the cancer"

"improve my life quality"

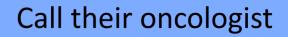
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- 64% of participants experienced side effects
- Most participants did not • experience a side effect serious enough to affect sleep, eating, daily activities, or caring for another
- Tiredness was the most common side effect
- 67.2% relied on their spouse or partner for support
- 13.6% had no one to rely on when not feeling well from treatment



Side Effects Management



Call the cancer center nurse

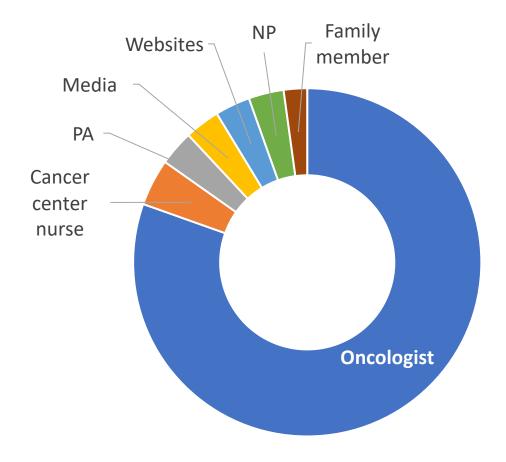
Discuss with family

Self-treat
Ignore side effect

- Early intervention is key to the management and treatment of side effects
- Patients are urged to contact their HCP for any symptom, no matter how minor

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Source of information about immunotherapy



- Most patients learn about immunotherapy from their oncologist
- HCPs educate patients and caregivers about identifying and reporting side effects

Media: TV, cancer websites, webMD, American Cancer Society and FaceBook



- Good expectations of treatment similar to patients in clinical trials
- Tiredness was reported as the most frequent side effect
- Received satisfactory information from HCPs on reported side effects

Highlights the importance of relationship with an available and knowledgeable HCP

Proactive patient education will increase the early identification of side effects, improve management, and enhance the immunotherapy patient experience



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Immunotherapy Patient Experience Infusion Reaction Management



Does an interdisciplinary team with a developed, evidence-based approach to management and care of cancer treatment related infusion reactions benefit patients?



Infusion Reaction Management

Study Title: Implementation of an Evidence-Based Hypersensitivity Algorithm Revision in an Adult Ambulatory Oncology Clinic (at the Dana-Farber Cancer Institute)

Study Objective:

To share one institution's approach in reviewing and updating a hypersensitivity treatment algorithm in an adult ambulatory oncology clinic

Study Design:

An interdisciplinary team from Dana-Faber (nursing, pharmacy, allergy service) met to review current practice and outcomes associated with acute infusion reaction management

Literature search was conducted to define best practices

- Existing algorithm was updated/implemented with current evidence-based interventions
- Clinicians, NPs, PAs, and pharmacists were educated

Infusion Reaction Management

Patients at risk for infusion related reactions require prompt identification and immediate emergent treatment to minimize morbidity and mortality



Do in-practice variations need to be updated?



Identify interdisciplinary roles and processes required to manage practice changes

revised and standardized approach

Update hypersensitivity reaction treatment algorithm

Implement education process to update HCPs on

Is the latest evidence embedded into practice standards and in actual practice?

Implement critical interdisciplinary clinical team practice changes



best practice

Infusion Reaction Management

Interdisciplinary literature review and gap analysis: Focused needs in clinical practice

Recognition of anaphylaxis to assure immediate response and order of medication administration

Guidelines for medication administration based on education, symptom, and severity

Role clarity Education of significance and appropriate use of epinephrine Key elements for establishing

Education and guidance for Tryptase lab draw

Documentation of the causative agent / allergen in the allergy list within medical record

Value of debriefings post event for all staff to learn and reflect on algorithm and practice

Importance of screening home use of beta blocker medications

Administration of glucagon for patients on beta-blockers not responding to epinephrine

A standard grading scale for reaction severity

Guidance to re-challenge with causative agent

Proper role of steroids in the treatment of an acute infusion reaction

Established standard grading scale for reaction severity

Grade	Broad clinical features	Defining signs and symptoms
1 MILD	Cutaneous and subcutaneous only	Generalized erythema, periorbital edema, urticaria, or angioedema
2 MODERATE	Cardiovascular, respiratory or gastrointestinal involvement	Dyspnea, stridor , wheeze, nausea, vomiting, dizziness, diaphoresis, chest or throat tightness, or abdominal pain
3 SEVERE	Hypoxia, hypotension, or neurologic compromise	Cyanosis or SpO2 ≤ 92% at any stage, hypotension (systolic BP < 90mmHg in adults), confusion, collapse, loss of consciousness or incontinence

HSR Algorithm

Concern for hypersensitivity reaction

STOP and DISCONNECT infusion, take vital signs, start normal saline; Place patient in supine position, elevate legs if able, verify allergies; **CALL** for help – notify MD/NP/PA; Contact pharmacy and or respiratory as needed

YES Assess for anaphylaxis NO				
ACTIVATE medical response and/or 911	Non-anaphylactic allergic reaction			
Epinephrine (Epi-Pen) 0.3 mg IM, into lateral thigh; may repeat x 2 at 5 min intervals Glucagon 1 mg IV over 5 min if taking beta blocker; may repeat up to 5 mg	1-2 L normal saline; Oxygen 2 L/min as needed Diphenhydramine 25-50 mg IV push; Famotidine 20 mg IVB			
1-2 L normal saline; Oxygen 2 L/min as needed; Diphenhydramine 25-50 mg IV push; Famotidine 20 mg IVB	Monitor vital signs; Ongoing assessment for anaphylaxis Epinephrine 0.3 mg IM if meets anaphylaxis criteria or not responding to above therapy after 20 mins; ACTIVATE medical response and/or 911			
Respiratory distress <u>OR</u> Fever, chills, rigors, pain				
Albuterol 2.5 mg (3mL) by nebulizer over 5-15 minutes for wheezing, coughing, and shortness of breath Montelukast 10 mg prn wheezing cough, hives or flushing	Acetaminophen 650 mg PO f not given as pre-med prn fever/chills Meperidine 12.5 – 25 mg IV push prn rigors Ketorolac 15 mg IV push prn pain			
Methylprednisone 40 mg (80 mg for >120 kg) IV push to prevent biphasic reaction in patient experiencing Grade 2/3 reaction				

Monitor vital signs until resolution (60-90 minutes post-reaction); Obtain Tryptase level within 30-60 min after HSR and 1 hr after the first level for suspected anaphylaxis. At least one tryptase required @ DFCI prior to transfer; Evaluate for resuming infusion; Document and enter allergy into EMR; Consider allergy consultation



- 609 clinical staff completed mandatory online education requiring a passing score of 100%
- Resulted in:
 - Increased confidence and comfort
 - Greater understanding /knowledge in managing HSR and anaphylaxis, and use of Epinephrine sooner and more frequently
 - Clarified standard of care and expectations
 - Improved patient care

Providing a standardized up-to-date algorithm for the management of infusion related reactions will ensure a coordinated response and will ultimately benefit the patient

