

Natural Health Products in Acute Leukemia and Hematopoietic Stem Cell Transplantation: A Comparison of Attitudes and Practices Among Health Care Practitioners



Anna Yee, B.Sc.(Pharm); Katie Lacaria, B.Sc.(Pharm), ACPR; Wendy Cheng, B.Sc.(Pharm), ACPR; Stephanie Woo, B.Sc.(Pharm), ACPR

Background

- Natural health product (NHP) use is increasing among cancer patients
- Prevalence up to 45% among patients with hematological cancers
- NHPs in the acute leukemia and hematopoietic stem cell transplant (L/HSCT) setting is concerning
- NHPs may have immune modulating effects, direct toxicities, and drug interactions, with chemotherapy or supportive care medications
- Patients are at high risk for infection from their highly immunocompromised state
- Guidelines recommend health care professionals follow certain steps when managing NHPs
- Practitioners' attitudes of their responsibilities in managing NHP use, and current practices around NHP management are unknown in the L/HSCT setting

Objectives

Primary

- To compare attitudes about professional responsibilities and current professional practices among health care professionals in L/HSCT
- To identify possible barriers to managing NHP in L/HSCT

Secondary

To identify differences in the management of NHPs among genders, years of practice and across Canada

Methods

Design: Electronic sample survey using UBC Survey Tool **Inclusion criteria:**

- Physicians, registered nurses and pharmacists
- Practicing in Canadian L/HSCT centres
- Members of the Canadian Bone Marrow Transplant Group (CBMTG) & Leukemia and Bone Marrow Transplant (L/BMT) pharmacist network group

Exclusion criteria: Incomplete surveys

Questionnaire:

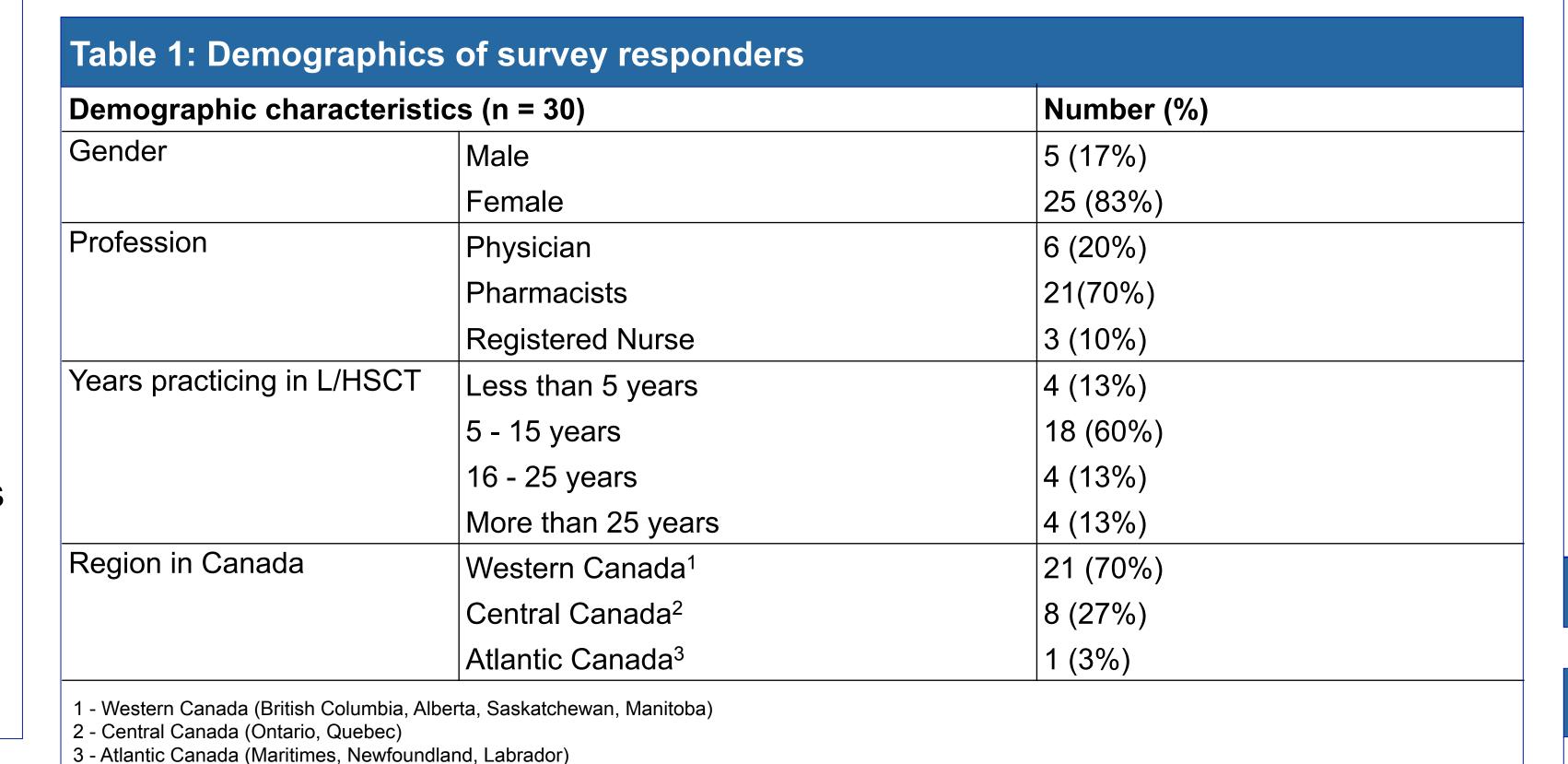
- Developed and modified based on pilot testing
- Themes: attitudes, professional practices, barriers
- Distributed via e-mail with two reminder emails

Study dates: 30-day period from January 19 to February 17, 2017

Statistical analysis: Descriptive statistics

Results

Survey response rate was 10%



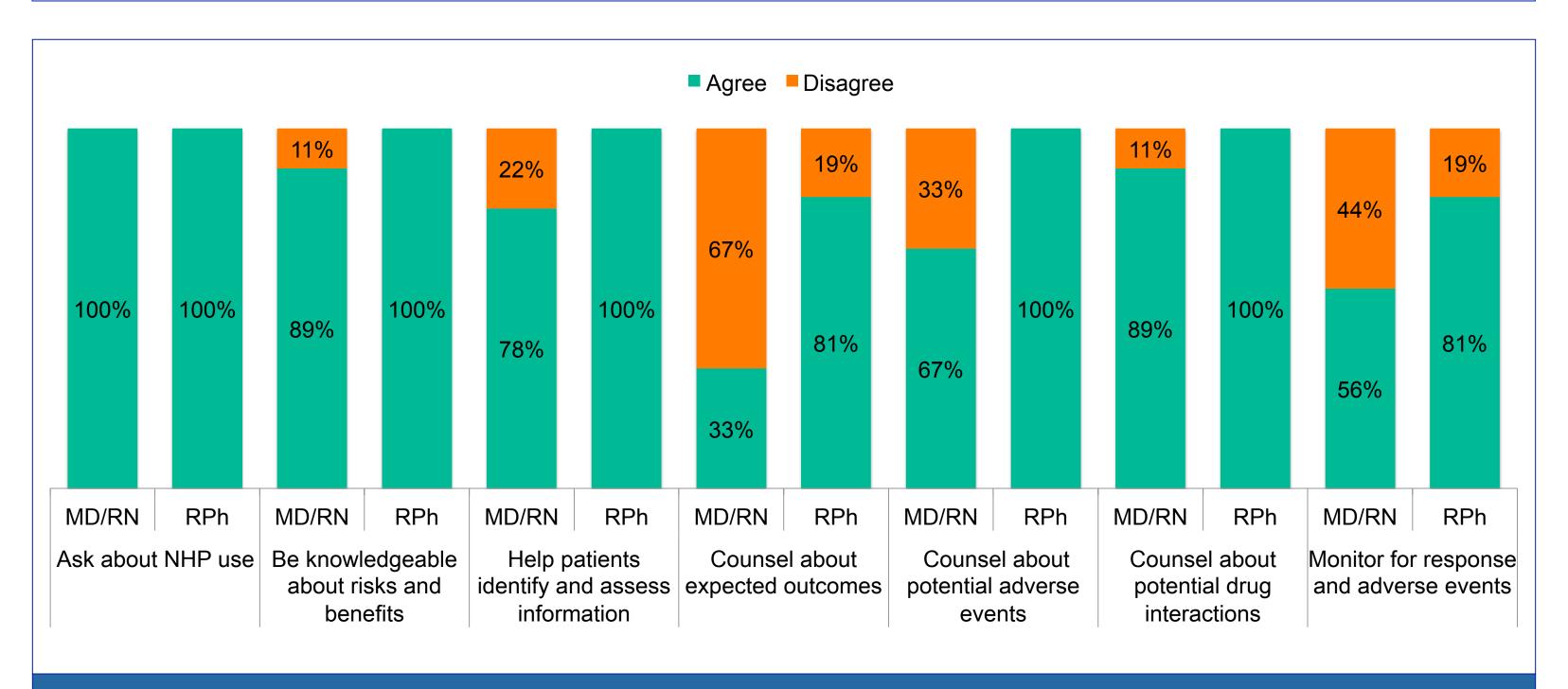


Figure 1: Comparison of attitudes about responsibilities of NHP management among practitioners

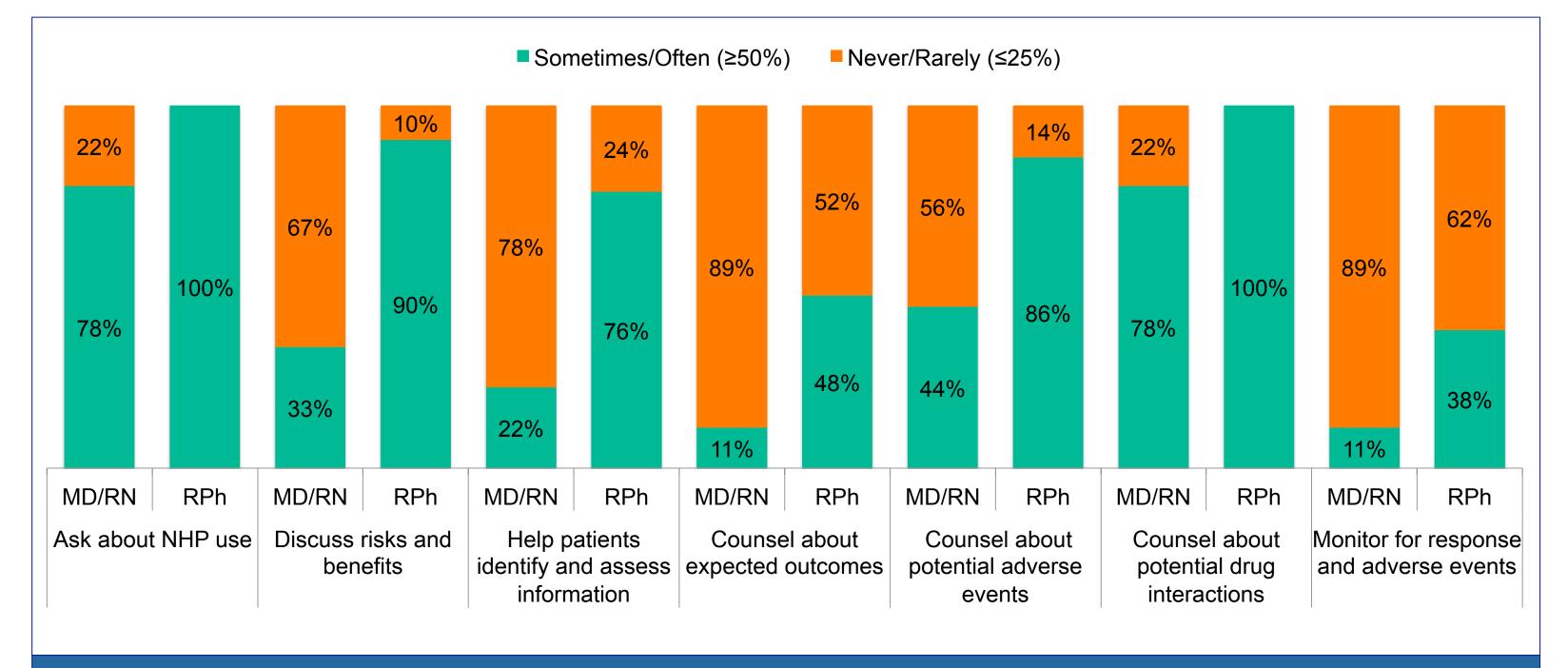


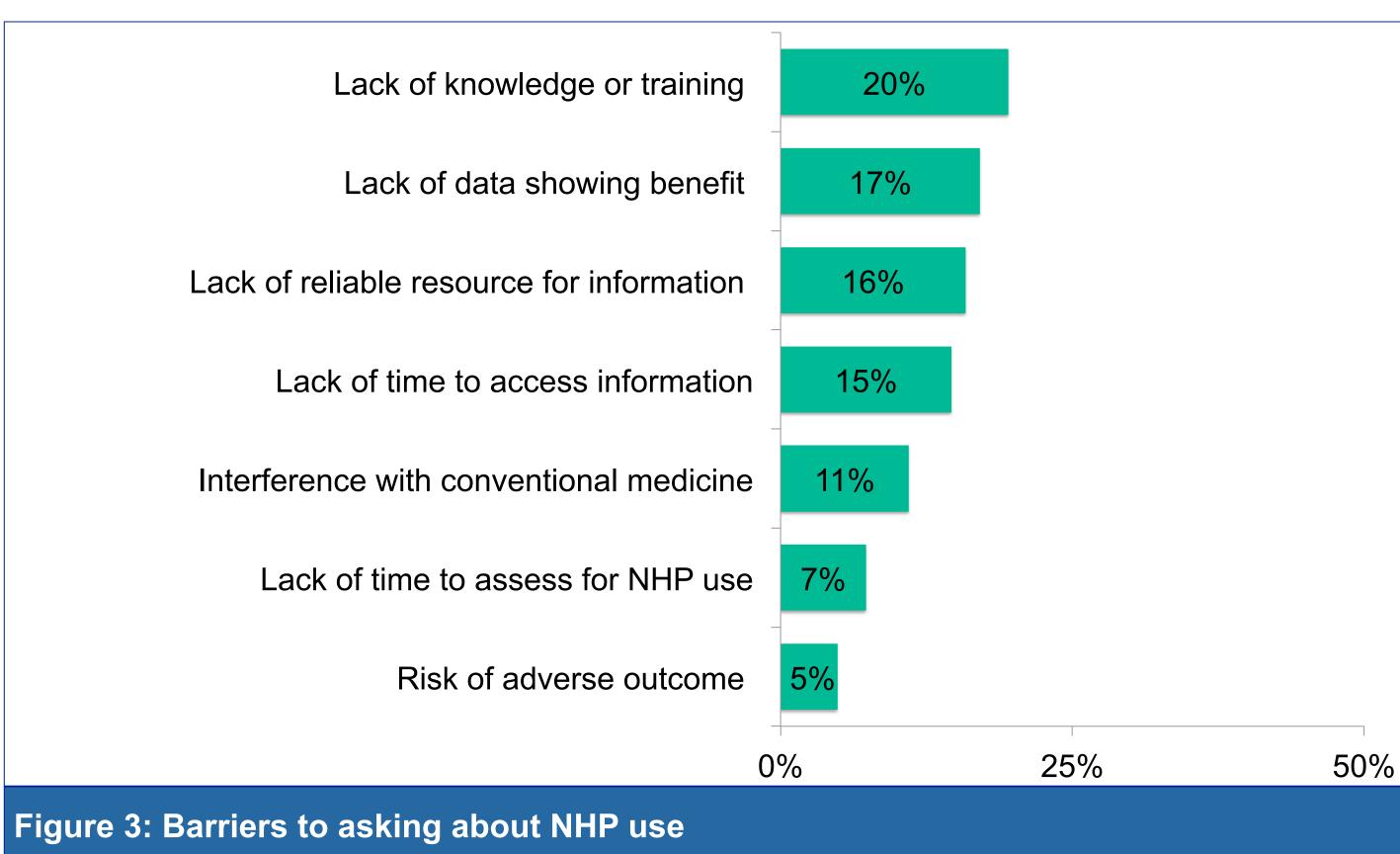
Figure 2: Comparison of current practices of NHP management among practitioners

Better health. Best in health care.









Results

- 50% of participants have easy access to current and reliable resources
- 78% of physicians and nurses sometimes or often refer patients to pharmacists to guide care on NHPs
- Only 7% of practitioners are very satisfied with the current NHP resources they use
- 97% of practitioners would use a new evidence-based resource tailored for L/HSCT patients
- No differences found in secondary outcomes

Conclusions

- Professional practices of pharmacists reflect their attitudes more so than physicians and nurses
- Barriers to asking about NHPs may be contributing to the discordance between practitioner attitudes of professional responsibilities and professional practices
- Practitioners may benefit from access to a new evidence-based resource tailored to L/HSCT patients

Limitations

- Response rate was lower than expected
- Selection bias
 - CBMTG email list not representative of multi-disciplinary membership
- Under representation of physicians and nurses
- Results biased towards practitioners who ask about NHP use