

Programme Name**National Pharmacy Residency Year 2 (R2) Programme in Oncology Pharmacy****Introduction / Purpose**

This is a one-year educational programme that provides systematic training of pharmacists to achieve professional competence in the delivery of patient-centred care and pharmacy services in Oncology pharmacy practice. It is designed to provide the resident with opportunities to conceptualise, integrate, and transform accumulated experiences and knowledge into improved patient care; develop accountability, practice patterns, habits, expert competencies, and leadership to advance practice.

Programme Overview

There are 5 specific competency areas in which this training programme will cover. Under each competency area, it is further stipulated into Standards (that is, broad statements of abilities).

It adheres to the *ASHP Accreditation Standard for Postgraduate Year Two (PGY2) Pharmacy Residency Programs*.

Competency Area 1: Patient Care (PC)

Standard PC1: In collaboration with the health care team, provide comprehensive medication management to oncology patients following a consistent patient care process.

Standard PC2: Ensure continuity of care during oncology patient transitions between care settings.

Standard PC3: Manage and facilitate delivery of medications to support safe and effective drug therapy for oncology patients.

Competency Area 2: Advancing Practice and Improving Patient Care (AP)

Standard AP1: Demonstrate ability to manage formulary and medication-use processes for oncology patients.

Standard AP2: Demonstrate ability to conduct a quality improvement or research project.

Competency Area 3: Leadership and Management (LM)

Standard LM1: Demonstrate leadership skills for successful self-development in the provision of care for oncology patients.

Standard LM2: Demonstrate management skills in the provision of care for oncology patients.

Competency Area 4: Teaching, Education, and Dissemination of Knowledge (TE)

Standard TE1: Provide effective medication and practice-related education to oncology patients, caregivers, health care professionals, students, and the public (individuals and groups).

Standard TE2: Effectively employ appropriate preceptor roles when engaged in teaching students, pharmacy technicians, or fellow health care professionals in oncology pharmacy.

Competency Area 5: Oncology Investigational Drugs (ID)

Standard ID1: Appropriately manage oncology investigational drugs and oncology investigational drug services.

Programme Structure

Residents will undergo learning experiences at different sites for an all-rounded training with exposure to a variety of subspecialties and case mix. The core learning experiences are listed in the table. The duration of each learning experience may be customised for individual resident based on the baseline assessment of strengths and weaknesses, specific learning needs and objectives, as well as requests for customisation done prior to commencement of training.

Learning Experience	Site	Duration
Orientation	SGH/ NCCS / NUHS	2 weeks
Medical Oncology I	NCCS	6 weeks
Medical Oncology II	NUHS	6 weeks
Haematology	SGH	4 weeks
Haematopoietic Stem Cell Transplantation	SGH	4 weeks
Haematology and Haematopoietic Progenitor Cell Transplantation	NUHS	4 weeks
Paediatric Haematology Oncology	KKH	4 weeks
Ambulatory Care Pharmacy Practice – Pharmacy Review Service	NCCS	4 weeks
Ambulatory Care Pharmacy Practice – Medication Therapy Management Service	NCCS	4 weeks
Radiation Oncology	NCCS	2 weeks
Investigational Drugs	NCCS	2 weeks
Advance Care Planning and Palliative Care	NCCS	5 weeks
Pharmacy Practice, Leadership and Management	NCCS	Longitudinal, with 1 dedicated week

In addition, residents will have 4 weeks of dedicated time for their main residency clinical quality improvement or research project. Residents are required to complete a Residency Teaching Certificate Programme conducted by the National University of Singapore, and teach selected modules as stipulated by the preceptor. Residents will also need to attend several meetings including the Chief Pharmacist-Pharmacy Managers meeting, SingHealth/NCCS Pharmacy and Therapeutics Committee meeting, as part of the longitudinal Pharmacy Practice learning experience.

Delivery Methods

- Clinical review / ward rounds / ambulatory clinics
- Case and topic discussions
- Oral presentations
- Teaching and education
- Personal and professional development
- Clinical quality improvement initiative or research project

Assessment & Evaluation

- Mid-point and summative assessment of each learning experience (by preceptor & resident)
- Learning experience evaluations (by resident)
- Workplace based assessment
- Write up on specific topics and reflective logs, as appropriate or required

Requirements for Successful Completion

The following requirements must be met for successful completion of the residency programme:

- Complete all learning experiences. A resident successfully completes a learning experience if the resident does not receive any "Needs Improvement" rating in any of the goals during the summative evaluation.
- Submit all assignments at least 2 weeks before the end of the training programme.
- Submit final manuscript and present clinical quality improvement or research project before the end of the training programme.
- Pass the portfolio-based exit assessment.