

June 2024, Chris Snyder

## SUMMARY OF RELEVANT EXPERIENCES

### 1. HEMATOPATHOLOGY SERVICE: 17 WEEKS (JUNE 2023-24)

#### A. Built independence in the interpretation, diagnosis, and templating of reports, for specimens: blood, bone marrow, and lymphoid tissues.

- ◆ Triaged smears, pleural fluids, and peritoneal fluids for new or atypical blasts.
- ◆ Diagnosed diseases of the blood, bone marrow, and lymphoid tissues.
- ◆ Interpreted peripheral blood smears, bone marrow aspirates, and biopsies.
- ◆ Independently wrote templated reports for sign-out
- ◆ Improved steadily and consistently over that time period
- ◆ Readily cover service as needed, totaling the equivalent of 1.5x rotations

#### B. Lead Tumor-Boards Style Conference

Lymphoma Conference 9/19/2023

BMT Review 11/9/2023

- ◆ Presented and effectively communicated patients' pathology with clinicians, contributing to management and care of complex patients.

#### C. Hematopathology Journal Club Presentation

Genomic Profiling of Myeloid Neoplasms

- ◆ Presented review article on the tradeoffs and indications for genome testing modalities according to the patient history and myeloid disease subclassification.

## 2. ADVANCED FLOW CYTOMETRY ELECTIVE: 12 WEEKS (2024)

- ◆ Rotated through flow benches to understand technician daily workflow
- ◆ mastocytosis panel in-service presentation
- ◆ Developed in-service presentation addressing gating issues with staff

### B. In-Service Presentation: Mastocytosis Gating

- ◆ I led a review of the pathophysiology and flow cytometry of mast cells, which was part of an effort to improve lab technician mast cell gating reproducibility.

### C. Case Conference Presentations Focusing on Heme

Created and delivered 30-minute case presentations to the Pathology department on the role of testing and diagnosis in disease management for the following diseases:

- ◆ IVIG Hemolysis
- ◆ SCID Flow Cytometry Testing
- ◆ Systemic Mastocytosis
- ◆ Sezary Syndrome

### D. Validation and Implementation of a Flow Cytometry Assay

- ◆ Lymph10 Assay Implementation
- ◆ To identify the major lymphocyte subsets to aid the clinicians in accessing the status of a patient's immune system.
- ◆ Designed protocol for new flow panel and spearheaded implementation training for flow cytometry team.
- ◆ Ensured that guidelines for flow assay validation were appropriately applied.
- ◆ Performed statistical analysis of linearity accuracy, limit of detection and correlation.
- ◆ Validated migration, across identical machines of flow, assay, wind machines broke down.
- ◆ Gained Experience in Flow Analysis Software Platforms
  1. *Kaluza (extensive)* – designed Boolean gating analysis panel aimed at reducing careless errors and raising common alerts through visual cues
  2. *CxP* – for immune-profiling analysis
  3. *Open-Source Flow Packages (FlowJo etc.)* –can process lmd files
  4. *NAVIOS EX 10-color flow cytometers*

### E. JMLR manuscript containing additional details on process (In-Progress)