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Central Venous Catheter-Associated Complications in Pediatric Patients with Acute Myeloid Leukemia

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INTRODUCTION

- Central venous catheters (CVCs) are a mainstay of pediatric cancer treatment¹
- CVC risks include catheter-associated bloodstream infections (CLABSIs) and local-site infections¹
- Analyzing complication rates may inform decisions about CVC choice

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METHODS

- **Retrospective chart** review identified patients diagnosed with acute myeloid leukemia at CMH from 2010 to 2022
- Demographic data, **CVC** placement details, and CVC complications were collected
- · One tailed t-test and **ANOVA** compared catheter complication rates (Fig. 1, 2)
- Chi Square compared catheter type with removal reason (Fig. 3)

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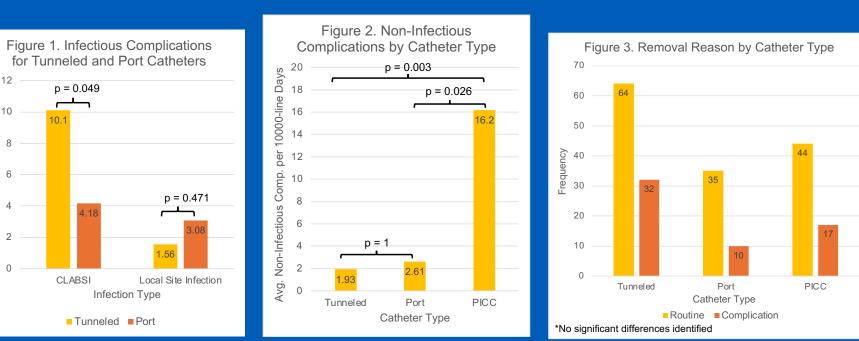


Table 1. Acute Myeloid Leukemia Subtypes Identified

Diagnosis

Acute monocytic leukemia	9
Acute megakaryoblastic leukemia	9
Acute promyelocytic leukemia	6
Therapy-related myeloid neoplasm	4
Myeloid leukemia associated with Down syndrome	12
Acute myeloid leukemia of various specification	50

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Research Institute

References

1. Adler A, Yaniv I, Steinberg R, Solter E, Samra Z, Stein J, Levy I. Infectious complications of implantable ports and Hickman catheters in paediatric haematology-oncology patients. J Hosp Infect. 2006 Mar;62(3):358-65. doi: 10.1016/j.jhin.2005.08.019. Epub 2006 Jan 10. PMID: 16377030.

RESULTS

