

DATE:	25 November 2024
TO:	Calgary Zone: All Healthcare Providers at Arthur J.E. Child Comprehensive Cancer Centre (Arthur Child; Units 105, 119 and Lab Specimen Porter Staff) and Alberta Children's Hospital (ACH; Unit 1) and Laboratory Staff at ACH, Foothills Medical Centre and Arthur Child Central Receiving Lab
FROM:	Clinical Biochemistry, Alberta Precision Laboratories
RE:	Nursing Unit Collected Busulfan Pharmacokinetic Specimens at Arthur Child and ACH

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Key Message

- Busulfan Pharmacokinetic (PK) testing specimens will continue to be analyzed at the APL Pharmacokinetics Laboratory within the Arthur J.E. Child Comprehensive Cancer Centre (Arthur Child).
- Arthur Child Nursing Units will send busulfan specimens to *CGY FMC MCT, APL 7th floor Lab*.
- Alberta Children's Hospital (ACH) Nursing Unit 1 will continue to send busulfan specimens to *APL ACH Laboratory*.
 - Upon specimen processing and completion of the entire patient set, the *APL ACH Lab* will continue to send the batch of frozen busulfan specimens to *CGY FMC MCT, APL 7th floor Lab*.

Background

- Busulfan PK specimens are currently only nurse collected on inpatient Units of Arthur Child (Units 105, 119), and Unit 1 at ACH.
- Busulfan PK specimens are collected 24/7, weekends and holidays.
 - Arthur Child Central Receiving Lab is closed after 11 pm on weekdays and on weekends.
- To ensure consistent, appropriate and timely specimen delivery to the PK lab, it is important these specimens are sent to and held at *CGY FMC MCT, APL 7th floor lab*, which operates 24/7.

Action Required

- For adult patients, Arthur Child Nursing Units 105 and 119: Call Ad Hoc porter, do not place in grey bins. Send all Busulfan PK specimens to the *CGY FMC MCT, APL 7th floor Lab*.
 - *CGY FMC MCT, APL 7th floor Lab* will continue to process Busulfan PK specimens to plasma, then freeze and hold in their laboratory freezer within the designated bucket.
 - PK lab staff will pick up specimens from the *CGY FMC MCT, APL 7th floor Lab* freezer and receive in Epic at Arthur Child.
- For pediatric patients, ACH Nursing Oncology / BMT Unit 1: Send all Busulfan PK specimens to the *APL ACH Lab*.
 - *APL ACH Lab* will continue to send Busulfan PK specimens for each patient, once all specimens have been collected, with plasma separated and frozen, to *CGY FMC MCT, APL 7th floor Lab*.
 - PK lab staff will pick up specimens from the *CGY FMC MCT, APL 7th floor Lab* freezer and receive in Epic at Arthur Child.



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Questions/Concerns

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Approved by

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