

<b>DATE:</b>	19 January 2026
<b>TO:</b>	All Zones, Alberta Pediatric Hematologists
<b>FROM:</b>	Genetics and Genomics, Alberta Precision Laboratories (APL)
<b>RE:</b>	<b>Use of EPIC Request for External Sendout Lab Test for Cytogenetic Chromosome Breakage Testing</b>

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## PLEASE POST OR DISTRIBUTE AS WIDELY AS APPROPRIATE

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### Key Message

- Cytogenetic Chromosome Breakage testing for children with aplastic anemia is not performed at Alberta Precision Laboratories. This test is referred to the Hospital for Sick Children (SickKids) Cytogenetics Laboratory in Toronto. Physicians must follow the established EPIC workflow to ensure accurate requisition submission, timely specimen handling, and appropriate result communication.

### Background

- Chromosome breakage analysis may be required for diagnosing **Fanconi anemia and related syndromes** in pediatric patients with aplastic anemia or bone marrow failure. Testing is performed at the Hospital for Sick Children Cytogenetics Laboratory in Toronto, ON as a send-out service. To streamline workflow and avoid delays, APL has outlined a specific ordering process in EPIC and communication steps with the Cytogenetics laboratories in Calgary and Edmonton.

### How this will impact you

- Physicians must use the “**Request for External Sendout Lab Test**” **consult order** in EPIC and provide the completed SickKids requisition to the patient prior to collection.
- Cytogenetics labs will review and approve consult orders before activating the ESO Lab Order for collection and shipping.
- Results will be sent directly to the clinicians listed on the requisition and uploaded into EPIC by the South Cytogenetics Lab.

### Action Required

1. Ordering physician to place **Request for External Sendout Lab Test**” **consult order** in EPIC specifying **test required**: chromosome breakage, providing clinical indication and indicating that the test is performed by the Toronto Hospital for SickKids. Monday or Tuesday collection is preferred.
2. **Notify local Cytogenetics Lab** via email of consult order:
  - Calgary: [APLGCCYTOAccessioningSouth@albertahealthservices.ca](mailto:APLGCCYTOAccessioningSouth@albertahealthservices.ca)
  - Edmonton: [cytogenetics.north@albertaprecisionlabs.ca](mailto:cytogenetics.north@albertaprecisionlabs.ca)
3. Ordering physician to complete **SickKids Cytogenetics requisition**: Information webpage: [Fanconi Anemia \(DEB, MMC\)](#), **Requisition link**: [SickKids Constitutional Requisition](#)
  - Select **CHROMOSOME BREAKAGE SYNDROMES, Fanconi anemia** under TESTS.
  - Indicate **aplastic anemia and/or bone marrow failure** under INDICATIONS.



- Include referring physician details and fax report copy to ACH Cytogenetics Lab (403-955-3000).
- Add AHS billing information:  
*AHS Accounts Payable, PO Box 1600, Edmonton, AB, T5J 2N9, phone: 1-877-595-0007,  
Attention: Kayla Oueslati (APL).*

Before specimen collection, the external send-out bench will enter a MISC EXT REF order. A completed requisition must be given to the patient to accompany the specimen at the time of collection.

**Effective      Immediately**

**Questions/Concerns**

- **Calgary:**  
Dr. Bob Argiropoulos, Laboratory Geneticist, APL  
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- **Edmonton:**  
Dr. Maisa Yoshimoto, Laboratory Geneticist, APL  
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**Approved by**

- Dr. Dennis Bulman, Medical/Scientific Director, Genetics & Genomics, APL
- Dr. Carolyn O'Hara, Chief Medical Laboratory Officer (Interim), APL