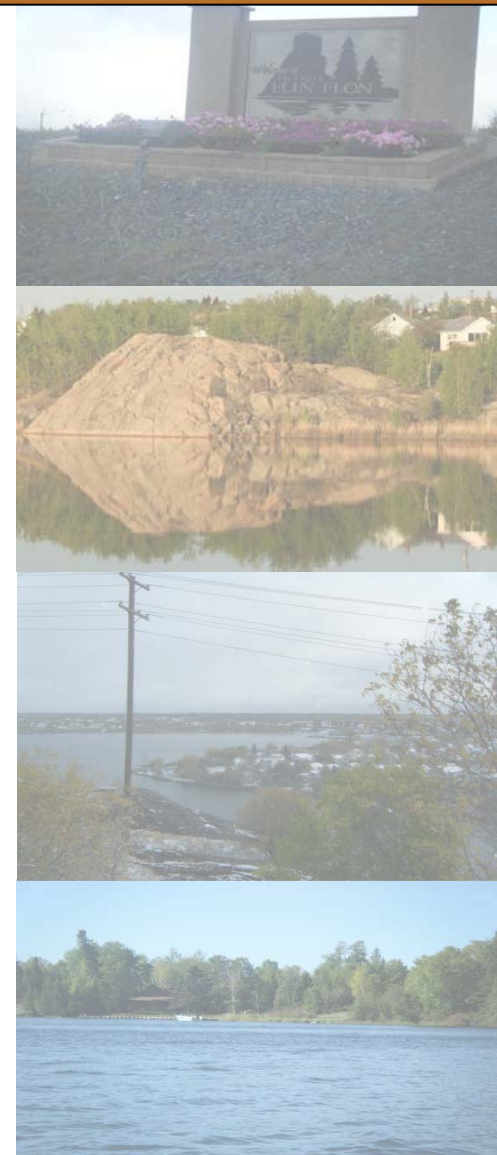


APPENDIX H

NOTIFICATION OF RESULTS



Notification of Results

This appendix contains the following example letters for notification of individual results:

- Letter to Physician for Normal Results (Blood, Urine, Both)
- Letter to Physician for Elevated Results (Blood, Urine, Both)
- Letter to Parent of Participant for Normal Results (Blood, Urine, Both)
- Letter to Parent of Participant for Elevated Results (Blood, Urine, Both)
- Letter to Parent of Participant for Normal Results- no consent to send to physician (Blood, Urine, Both) no consent to send to physician
- Letter to Parent of Participant for Elevated Results (Blood, Urine, Both)

	Blood only	Urine only	Blood and Urine
Physician Letter- Normal Results	A1	A2	A3
Physician Letter- Elevated Results	B1	B2	B3
Parent Letter- Normal Results	C1	C2	C3
Parent Letter- Elevated Results	D1	D2	D3
Parent Letter (no consent for Physician notice)- Normal Results	E1	E2	E3
Parent Letter- Elevated Results	F1	F2	F3
Custom letter- close to elevated	G1	G2	G3

Letter to Physician for Normal Results (Inorganic Mercury, Arsenic, and Lead)

Child Results Notification

MM/DD/YYYY

Physician's Name: «Physician name»

Patient's First Name: John
Patient's Last Name: Doe
Patient's Address: 123 Street Lane, Flin Flon
Patient's Date of Birth: MM/DD/YYYY

Dear «Physician»:

Your patient has recently participated in an evaluation of environmental contaminant exposure among children in Flin Flon and Creighton. As part of this evaluation your patient provided a first morning void urine sample and a capillary blood sample. The urine sample was analysed for arsenic and inorganic mercury levels. The blood sample was analyzed for lead. The results of these tests for this patient's samples, which have been sent to the patient's parent/guardian <insert name of parent/guardian>, are as follows:

Test type	Patient's Level	Follow-up Level	Reference Range
Blood lead	x µg/dL	5 µg/dL	Levels in the general population of children and non-occupationally exposed adults are usually below 10 µg/dL.
Urine arsenic (total)	x µg/L	100 µg/L	Levels in the general population are variable depending on fish and seafood consumption one week or less before the morning urine sample is taken. Usual levels are below 100 µg/L
Urine arsenic (inorganic)	x µg/L	20 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.
Urine mercury (inorganic)	x µg/L	10 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.

Two reference values are provided. The first is the "follow-up level". This value, obtained from current medical literature and standard practice, is the level above which medical follow-up is

recommended. Your patient's results are **below** this level. The second is the range of values observed in other communities.

These results indicate that your patient is not at any additional risk for health effects at his or her current level of exposure.

If you have any questions with respect to the study or any of your individual patients' results or would like to discuss these results, please do not hesitate to contact me at (403) 451-0097.

The overall community results will be presented early in 2010. We will send a summary of the results of the overall study to your office at that time.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Lee", with a stylized flourish extending downwards and to the right.

Murray Lee, MD
Principal Investigator
Evaluation of Environmental Contaminant Exposure
among Children in Flin Flon and Creighton Reference

ID #: «Reference__xxx_x»

Letter to Physician for Elevated Results (Lead and Inorganic Arsenic)

Child Results Notification

MM/DD/YYYY

Physician's Name: «Physician name»

Patient's First Name: John
Patient's Last Name: Doe
Patient's Address: 123 Street Lane, Flin Flon
Patient's Date of Birth: MM/DD/YYYY

Dear «Physician»:

Your patient has recently participated in an evaluation of environmental contaminant exposure among children in Flin Flon and Creighton. As part of this evaluation your patient provided a first morning void urine sample and a capillary blood sample. The urine sample was analysed for arsenic and inorganic mercury levels. The blood sample was analyzed for lead. The results of these tests for this patient's samples, which have been sent to the patient's parent/guardian <insert name of parent/guardian>, are as follows:

Test type	Patient's Level	Follow-up Level	Reference Range
Blood lead	x µg/dL	5 µg/dL	Levels in the general population of children and non-occupationally exposed adults are usually below 10 µg/dL.
Urine arsenic (total)	x µg/L	100 µg/L	Levels in the general population are variable depending on fish and seafood consumption one week or less before the morning urine sample is taken. Usual levels are below 100 µg/L
Urine arsenic (inorganic)	x µg/L	20 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.
Urine mercury (inorganic)	x µg/L	10 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.

Two reference values are provided. The first is the "follow-up level". This value, obtained from current medical literature and standard practice, is the level above which medical follow-up is

recommended. Your patient's results are **above** this level for lead and inorganic arsenic. The second is the range of values observed in communities.

These results indicate that more information is required to determine if your patient is at any additional risk for health effects at his or her current level of exposure. The next step we recommend would be to confirm these results with a follow-up test (i.e. 24-hour urine collection for arsenic and/or mercury, or venous blood draw for lead).

While this study is intended to investigate the impact of soil contamination, it may be worth considering some additional factors if your patient's levels are above the usual reference range:

- 1) Exposure to tobacco smoke is a potential source of exposure to arsenic and lead.
- 2) Iron deficiency may result in increased absorption of other metals and an elevation of lead. Treatment of iron deficiency may lower an elevated blood lead level.
- 3) Correction of underlying nutritional disorders may lower arsenic and lead levels.
- 4) Chronic disease (e.g. kidney or liver disease) may alter levels of metals in urine and blood.

I will be contacting you shortly by phone to answer any questions you may have with respect to the study or any of your individual patients' results. In the mean time, if you have any questions, or would like to discuss these results, please do not hesitate to contact me at (403) 451-0097.

The overall community results will be presented early in 2010. We will send a summary of the results of the overall study to your office at that time.

Sincerely,



Murray Lee, MD
Principal Investigator
Evaluation of Environmental Contaminant Exposure
among Children in Flin Flon and Creighton Reference

ID #: «Reference__xxx_x»

Letter to Parent of Participant for Normal Results (Inorganic Mercury, Arsenic, and Lead)

Child Results Notification

MM/DD/YYYY

Parent's Name: <<parent's name>>

First Name: John
Last Name: Doe
Address: 123 Street Lane, Flin Flon
Physician: Dr. Doctor (to whom the results where sent)

Dear <<parent's name>>,

As you may recall, <<child's name>> recently participated in an evaluation of environmental contaminant exposure among children in Flin Flon and Creighton. As part of this evaluation your child provided a urine sample and a blood sample. The urine sample was analysed for arsenic and inorganic mercury levels. The blood sample was analyzed for lead. This letter provides you with the results of the tests carried out on your child. These results have also been sent to the physician indicated on the consent form that you signed prior to the household interview.

On the whole, your child's results for metals are within the reference range of normal values seen in other communities. Your child's test levels are indicated in the second column in the table below.

Test type	Patient's Level	Follow-up Level	Reference Range
Blood lead	x µg/dL	5 µg/dL	Levels in the general population of children and non-occupationally exposed adults are usually below 10 µg/dL.
Urine arsenic (total)	x µg/L	100 µg/L	Levels in the general population are variable depending on fish and seafood consumption one week or less before the morning urine sample is taken. Usual levels are below 100 ug/L
Urine arsenic (inorganic)	x µg/L	20 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.
Urine mercury (inorganic)	x µg/L	10 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.

These results indicate that your child is not at any additional risk for health effects at his or her current level of exposure.

If you have any questions, or would like to discuss these results, please do not hesitate to contact me at (403) 451-0097.

The overall community results will be presented early in 2010. We will send a summary of the results of the overall study to you at that time.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Lee", with a long, sweeping underline.

Murray Lee, MD
Principal Investigator
Evaluation of Environmental Contaminant Exposure
among Children in Flin Flon and Creighton Reference

ID #: «Reference__xxx_x»

Letter to Parent of Participant for Elevated Results (Mercury, Arsenic, and Lead)

Draft Child Results Notification

MM/DD/YYYY

Parent's Name: <<parent's name>>

First Name: John
Last Name: Doe
Address: 123 Street Lane, Flin Flon
Physician: Dr. Doctor (to whom the results were sent)

Dear <<parent's name>>,

As you may recall, << child's name>> recently participated in an evaluation of environmental contaminant exposure among children in Flin Flon and Creighton. As part of this evaluation your child provided a urine sample and a blood sample. The urine sample was analysed for arsenic and inorganic mercury levels. The blood sample was analyzed for lead. This letter provides you with the results of the tests carried out on your child. These results have also been sent to the physician indicated on the consent form that you signed prior to the household interview.

Your child's test levels are indicated in the second column in the table below.

Test type	Patient's Level	Follow-up Level	Reference Range
Blood lead	x µg/dL	5 µg/dL	Levels in the general population of children and non-occupationally exposed adults are usually below 10 µg/dL.
Urine arsenic (total)	x µg/L	100 µg/L	Levels in the general population are variable depending on fish and seafood consumption one week or less before the morning urine sample is taken. Usual levels are below 100 ug/L
Urine arsenic (inorganic)	x µg/L	20 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.
Urine mercury (inorganic)	x µg/L	10 µg/L	Levels in the general population are usually below 20 µg/L in morning urine.

Your child's results for metals are within the reference range of normal values seen in other communities, although some values may be just above it for a particular contaminant in blood or urine. This does not mean that your child is at risk of any health effect from this level. Similar levels may be found occasionally in individuals in other communities with no history of soil contamination.

Based on <<the value(s) that was/were measured for [REDACTED]>>, we suggest that you review these results with your family physician to determine if any follow up is necessary.

If you have any questions, or would like to discuss these results, please do not hesitate to contact me at (403) 451-0097.

The overall community results will be presented early in 2010. We will send a summary of the results of the overall study to you at that time.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Lee", with a stylized flourish extending from the bottom.

Murray Lee, MD
Principal Investigator
Evaluation of Environmental Contaminant Exposure
among Children in Flin Flon and Creighton Reference

ID #: «Reference__xxx_x»