ACCESS TO EMERGENCY DEPARTMENT FOR ACUTE EVENTS AND IDENTIFICATION OF SICKLE CELL DISEASE IN REFUGEES

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Submitted
Refugees are screened for communicable diseases and undergo the vaccination program recommended by WHO two weeks after their arrival. However, they are not screened for non-communicable disorders (NCD) such as sickle cell disease (SCD). A document from Division of Global Migration and Quarantine of the United State Department of Health and Human Service (2016) suggested that refugees coming from endemic areas for SCD should be screened.⁴ Such an initiative has recently been introduced in Canada, due to the increase prevalence of SCD related to voluntary migration flux.⁵
At risk area for Hb-pathies?

Rapid test sickle

YES

-
Q. 1

- Da dove vieni?
- Where do you come from?
- D’où viens-tu?

1 - سأنا دا با مده یا نم (سأنا نينا نم) ؟ ندلو نيا
Q.2  Yes □  NO □
- Sei mai stato ricoverato in ospedale per forte dolore in queste sedi (figura) ?
- Have you been hospitalized for severe pain (back, legs, arms, chest)?
- N’as-tu jamais été hospitalisé pour forte douleur en ces parties? (voir figure)?

Q.3  Yes □  NO □
- Hai mai ricevuto sangue (trasfusioni)? Se si perché?
- Have you ever received blood transfusion? Why?
- N’as-tu jamais reçu du sang (transfusions)?
  Si oui pourquoi?

Q.4  Yes □  NO □
- Qualcuno nella tua famiglia soffre di anemia?
- Have you relatives with anemia?
- Quelqu’un dans ta famille souffre d’anémie?
Does he/she need further inspections/screening exams?

NO

Spleen enlargement?

NO

At risk area for Hb-pathies?

NO

STOP
Rapid test sickle

C.R.1: Reference Center for Hb-pathies

C.R.1

- Blood cell count + formula
- Hb Electrophoresis

Does he/she need further inspections/screening exams?

YES

NO

STOP
Spleen enlargement?

Rapid test sickle

- [ ]

Spleen enlargement?

- [ ]

YES

NO
Spleen enlargement?

YES

PUBLIC HEALTH SERVICE/C.R.2

- Blood cell count + formula
- Hb Electrophoresis
- Screening for parasitic/infectious diseases*

Hb-pathie

YES → C.R.1

NO

C.R.1: Reference Center for Hb-pathies

C.R.2: CESAIM/others

* Reference Center for Parasitic/Infectious Diseases

Does he/she need further inspections/screening exams?
Blood cell count + formula
• Hb Electrophoresis
• Screening for parasitic/infectious diseases*

Hb-pathie

Does he/she need further inspections/screening exams?

YES

C.R.2

Screening for parasitic/infectious diseases*

C.R.2: CESAIM/others

* Reference Center for Parasitic/Infectious Diseases
FLOW CHART 1 DOCTOR – 2nd level Immigration Center

First screening visit by Service of Public Health:
- Physical examination*
- Mantoux
- Vaccination
- Questionnaire (fill by patient)

*SPLEEN ENLARGMENT
- No
- Yes
  - <2 cm
  - >2 cm

At risk area for Hb-pathies? → YES

NO
At risk area for Hb-pathies?

Rapid test sickle

YES

-
Does he/she need further inspections/screening exams?

Spleen enlargement?

NO

NO

At risk area for Hb-pathies?

NO

STOP
Rapid test sickle

+ → C.R.1

C.R.1: Reference Center for Hb-pathies

- Blood cell count + formula
- Hb Electrophoresis

Does he/she need further inspections/screening exams?

- YES
- NO

STOP
Spleen enlargement?

Rapid test sickle

- YES

- NO
Does he/she need further inspections/screening exams?

Spleen enlargement?

YES

PUBLIC HEALTH SERVICE/C.R.2

- Blood cell count + formula
- Hb Electrophoresis
- Screening for parasitic/infectious diseases*

Hb-pathie

YES → C.R.1

NO

C.R.1: Reference Center for Hb-pathies

C.R.2: CESAIM/others

* Reference Center for Parasitic/Infectious Diseases
Blood cell count + formula
• Hb Electrophoresis
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Does he/she need further inspections/screening exams?

• C.R.2: CESAIM/others

* Reference Center for Parasitic/Infectious Diseases
FLOW CHART 2 OPERATORE

Domanda 1 - Guarda la mappa

Viene da aree endemiche?

SI

NO
Viene da aree endemiche?

NO

SI

Valutare i seguenti sintomi:

- Vomito
- Cefalea
- Pallore
- Febbre (>38°C)

Febbre e/o almeno 2 fra gli altri sintomi

Assenza di febbre e 1 (o nessun) sintomo
Valutare i seguenti sintomi:
• Vomito
• Cefalea
• Pallore
• Febbre (>38°C)

Febbre e/o almeno 2 fra gli altri sintomi

Valutazione se presente un medico nel Centro di Riferimento

PRONTO SOCCORSO
Valutare i seguenti sintomi:
- Vomito
- Cefalea
- Pallore
- Febbre (>38°C)

Assenza di febbre e 1 (o nessun) sintomo

Valutare se sclera gialla

Guarda scala del dolore (VAS)

VAS < 5

VAS 5-7

VAS > 7 -> PRONTO SOCCORSO
Vas

0: Non fa per niente male
2: Fa male solo un pochino
4: Fa male un po' di più
6: Fa ancora più male
8: Fa tanto male
10: Fa un male incredibile
VAS < 5

Osservazione per 48-72 ore

C.R.2/PS, terapia

Guarda scala del dolore (VAS)

VAS < 4

STOP

VAS > 3

PRONTO SOCCORSO

C.R.2: CESAIM/altri centri