

# Migrants and communicable diseases: experiences in Belgium

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# Overview

- Migrants: different definitions
- Trajectory of the newly arrived asylum seeker
- Screening upon arrival
- TB
- HIV
- HBV/HCV
- Access to care

# Migration: what do you mean...?

- Migrants (UN)
  - a long-term migrant as a 'person who moves to a country other than that of his or her usual residence for a period of at least a year
  - the term migrant is used as a generic for the heterogeneous population of asylum seekers, economic migrants and refugees
- Newly arrived migrants (ecdc):
  - individuals who have migrated to a host country within the EU/EEA in the past five years.
- Irregular migrant (ecdc):
  - a person who, owing to unauthorised entry, breach of a condition of entry, or the expiry of his or her visa, lacks regular status in a transit or host country. The definition also covers those persons who have entered a transit or host country lawfully but have stayed for a longer period than authorised or subsequently taken up unauthorised employment.
- 'transmigrants'

# Migration: what do you mean...?

- Refugee (ecdc):
  - A person who, owing to a well-founded fear of persecution for reasons of race, religion, nationality, membership of a particular social group or political opinions, is outside the country of his or her nationality and is unable or, owing to such fear, is unwilling to avail himself of the protection of that country (3).
- Asylum seeker (ecdc):
  - A person who awaits a decision on the application for refugee status under relevant international and national instruments.

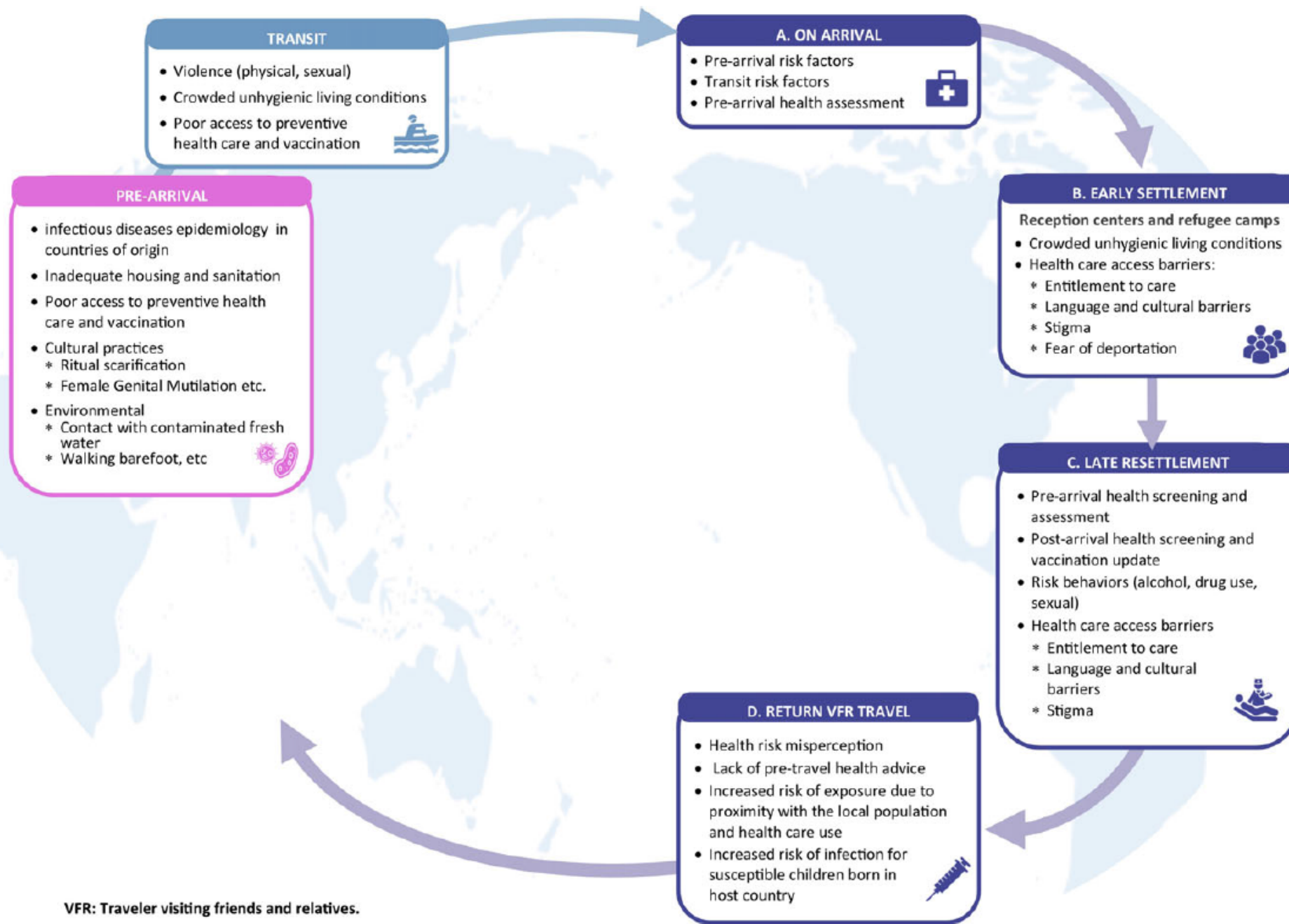
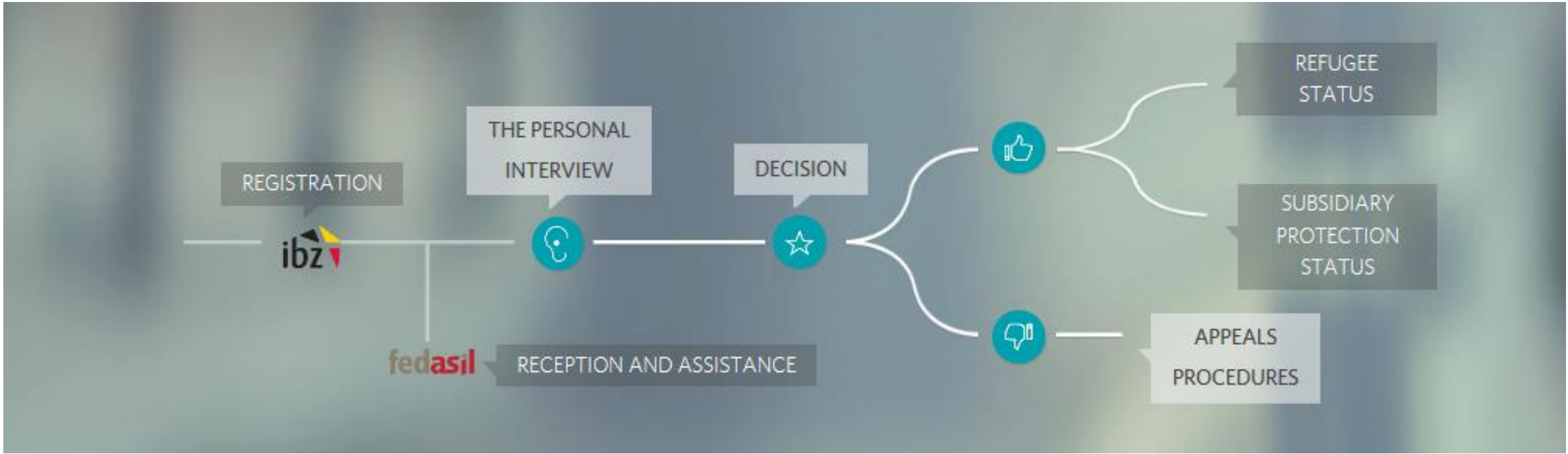
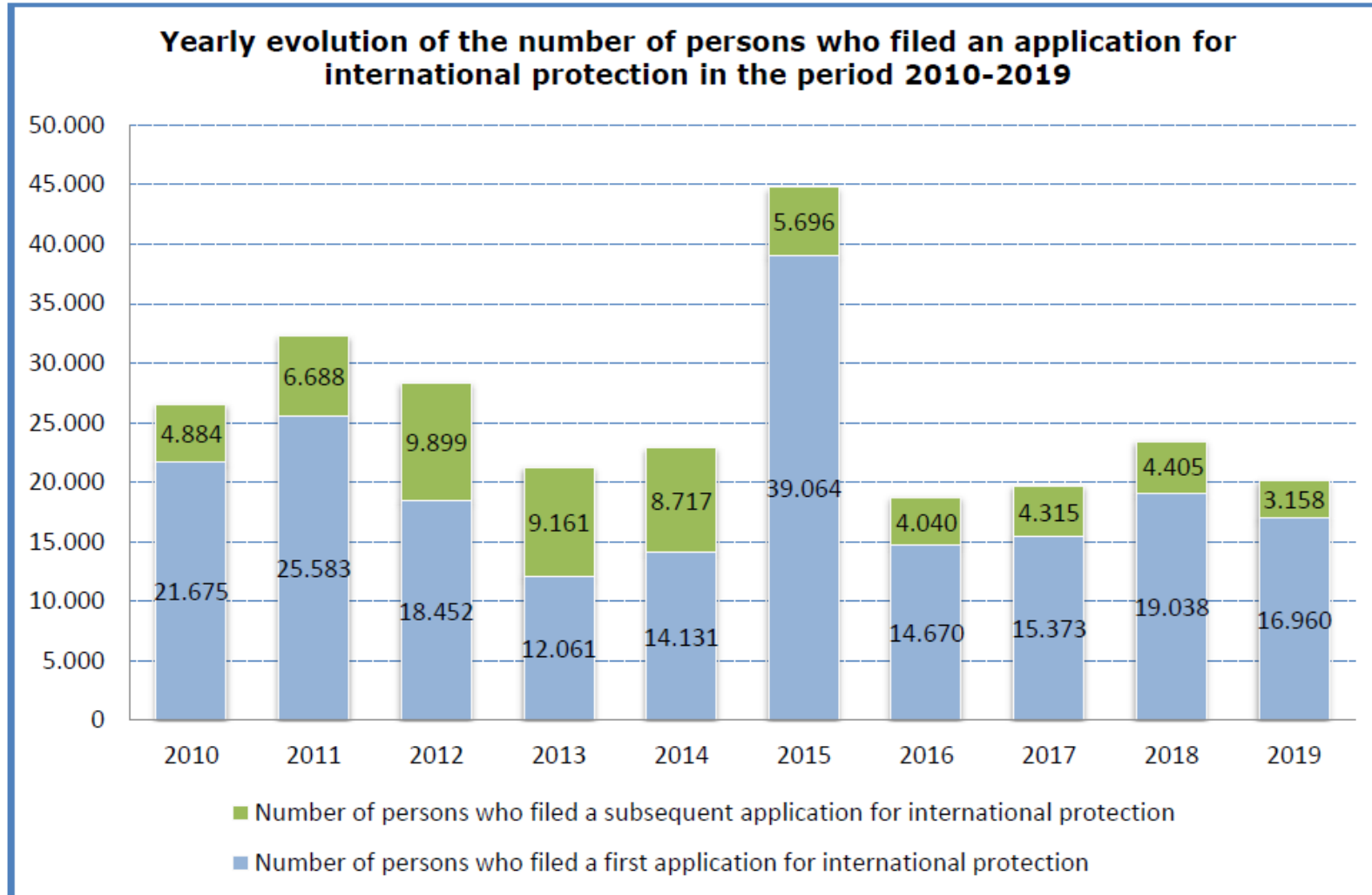


Figure 1. Risk factors for infectious disease exposure or burden at different stages of migration pathway.

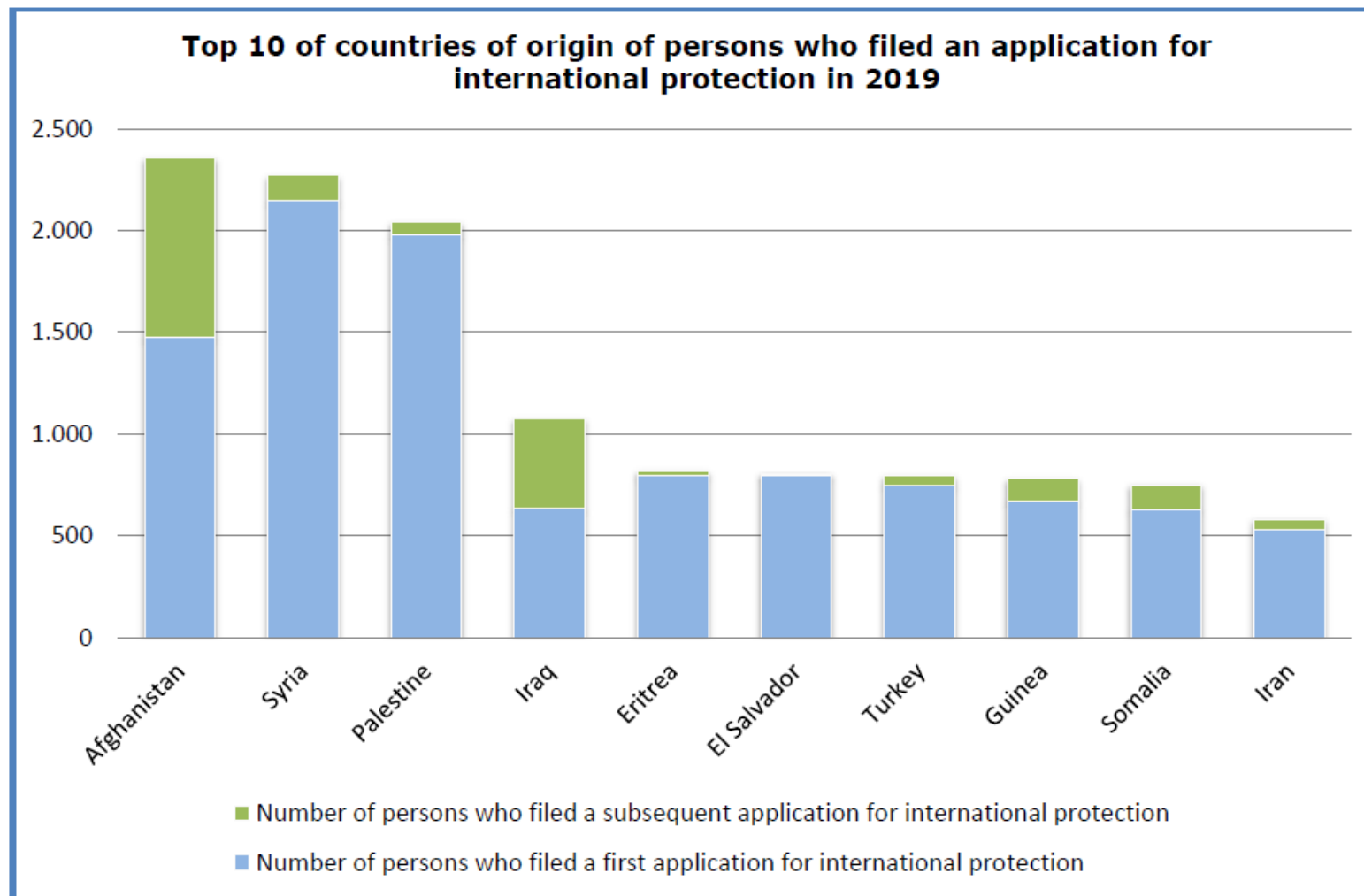
# Trajectory of an asylum seeker in Belgium



# How many?



# Where do asylum seekers come from in 2019?

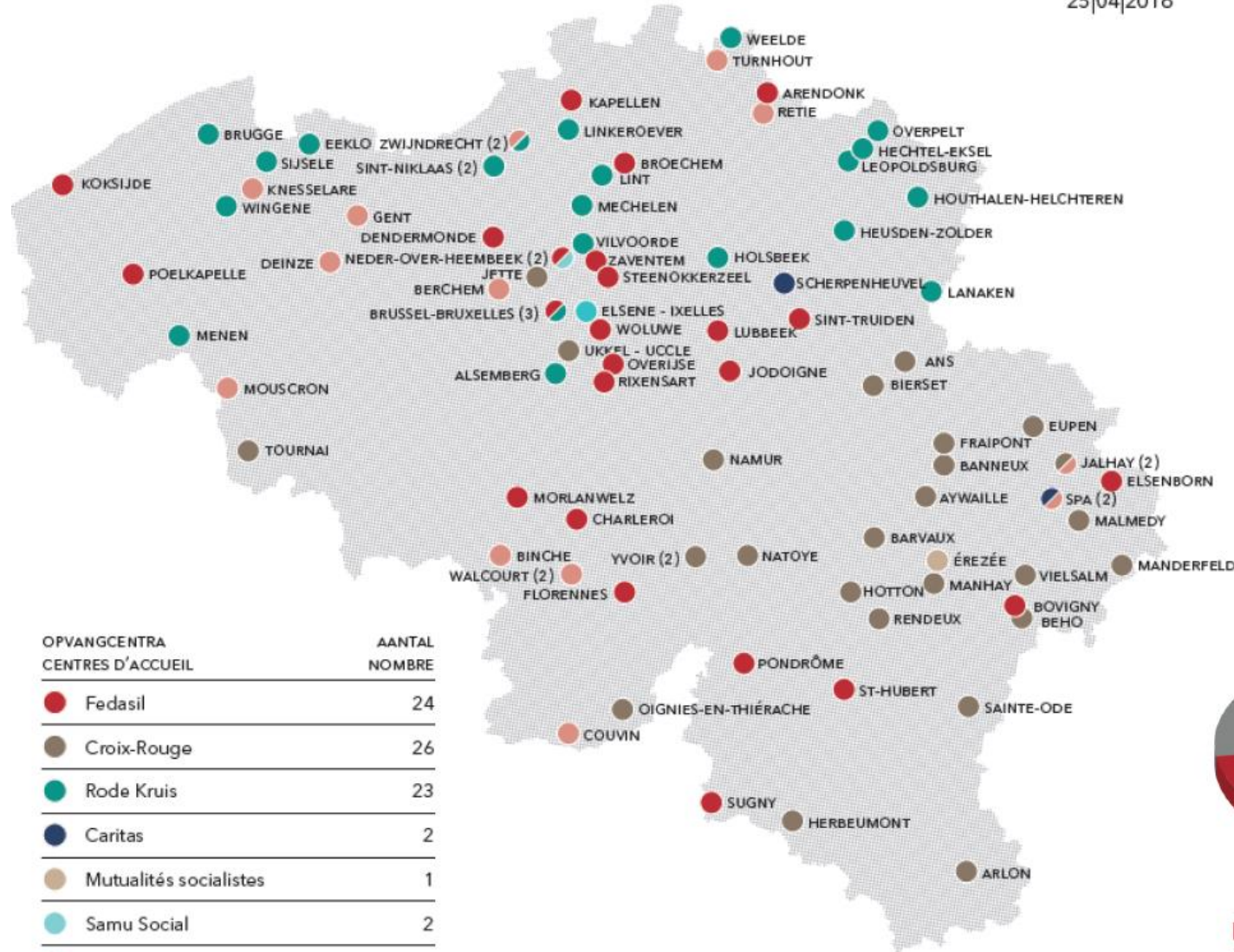




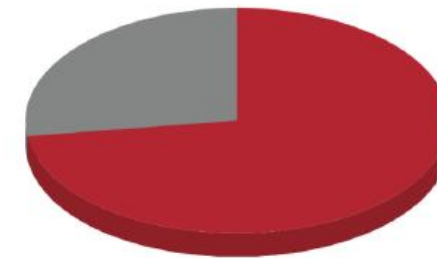
# Localisation of asylum centres

25|04|2016

[www.fedasil.be](http://www.fedasil.be)




OPVANGCENTRA CENTRES D'ACCUEIL	AANTAL NOMBRE
<span style="color: red;">●</span> Fedasil	24
<span style="color: brown;">●</span> Croix-Rouge	26
<span style="color: teal;">●</span> Rode Kruis	23
<span style="color: darkblue;">●</span> Caritas	2
<span style="color: tan;">●</span> Mutualités socialistes	1
<span style="color: lightblue;">●</span> Samu Social	2
<span style="color: orange;">●</span> Privépartners / Partnaires privés	14
<b>TOTA(A)L</b>	<b>92</b>



	places
<span style="color: red;">■</span> Centres d'accueil	25.666
<span style="color: grey;">■</span> Logements individuels	10.084
<b>Total</b>	<b>35.750</b>

# Screening and vaccination of asylum seekers

New screening file to facilitate the transfer of medical information to the centre



AGENCE FÉDÉRALE POUR  
L'ACCUEIL DES DEMANDEURS D'ASILE

**FICHE de SCREENING MÉDICAL à l'ENTRÉE**

---

**NOM :** \_\_\_\_\_ **Prénom :** \_\_\_\_\_ **Date:** \_\_\_\_\_

Sexe :  Masculin  Féminin    Nom du chef de la famille : \_\_\_\_\_

Pays d'origine : \_\_\_\_\_    Date de Naissance: \_\_\_\_\_

Numéro S.P. provisoire: . . .    Numéro S.P. définitive : . . .    ou N.N. : - -

**DÉPISTAGE des MALADIES INFECTIEUSES**

- Dépistage Ebola<sup>1</sup>?  Non  Oui (→ contrôle température pendant 21 jours)
- Dépistage Tuberculose :
  - Rx thorax?  Oui
  - Non → raison:  panne Rx  refus Rx  manque temps
  - Indication test I.D. au centre:  < 5 ans  femme enceinte?
- Si dépistage TBC à la structure d'accueil :  test I.D.  Rx thorax effectuée à la date effective de*
- Remarque(s) / suspicion autres maladies infectieuses ?:

**VACCINATION des demandeurs d'asile** *(uniquement si date vacc. diffère date entrée)*

enfant < 6 ans → vaccination par O.N.E./ Kind & Gezin (à organiser par structure d'accueil) Date vacc

mineur 6 ans jusqu'à < 18 ans

- Originaire d'un pays à risque polio (Afghanistan, Pakistan, Somalie ou Nigéria) ?  Non
  - Oui → Vaccination contre polio par Imovax® ?  Non  Oui : N° du lot vaccin
- adulte (18 et plus)
- Originaire d'un pays à risque polio (Afghanistan, Pakistan, Somalie ou Nigéria) ?  Non
  - Oui → Vaccination contre polio par Imovax® ?  Non  Oui : N° du lot vaccin
- Né après 1970 ?  Non
  - Oui → Vaccination contre R.O.R. par M-M-R VaxPro® ?  Non  Oui : N° du lot vaccin
- Remarque(s):

**ANAMNÈSE MÉDICALE :**

- Impression santé générale?  très bonne  bonne  moyenne  mauvaise  très mauvaise  ??
- Mentionne problème de santé sur fiche inscription?  Non  Oui :
- Remarque(s):

**Uniquement si femme (> 14 ans):**

- Enceinte?  Non  ??  Oui : Date prévue d'accouchement ou grossesse de \_\_\_\_\_ semaines ou de \_\_\_\_\_ mois date vacc
- Grossesse à risque ?  Non  Oui:
- Grossesse entre 24 à 32 semaines ?  Non
  - Oui → Vaccination contre Di-Te-Per par Boostrix® ?  Non  Oui : N° du lot vaccin

**CONCLUSION:**

- A première vue, rien de particulier à signaler au niveau santé
- Référence vers poste médical au dispatching → Evaluation par poste médical réalisée ?  Non  Oui
- Pathologie médicale:  aiguë et/ou  chronique;  stabilisée / sous contrôle  non stabilisée / évolutive  ??
- Prise de médicaments ?  Non  Oui : →encore assez pour \_\_\_\_\_ jours ou \_\_\_\_\_ semaines
- Remarque(s) :
- Action(s) méd. suivante(s) à faire :
- Référence urgente vers les urgences?  Non  Oui →hôpital de
- Suivi (para)médical immédiat nécessaire?  Non  Oui
  - Auprès service médical de la structure d'accueil : endéans les \_\_\_\_\_ heures ou \_\_\_\_\_ jours max.
  - Chez médecin généraliste: endéans les \_\_\_\_\_ heures ou \_\_\_\_\_ jours max.
  - Chez...
- Il y a des besoins d'accueil spécifiques pour raisons médicales et/ou psy:  Non  Oui

<sup>1</sup> A la date de 1/11/2015 : que Guinée Conakry et Sierra Leone (et attente d'être déclaré « ebola free » à partir de 7 novembre 2015 !)

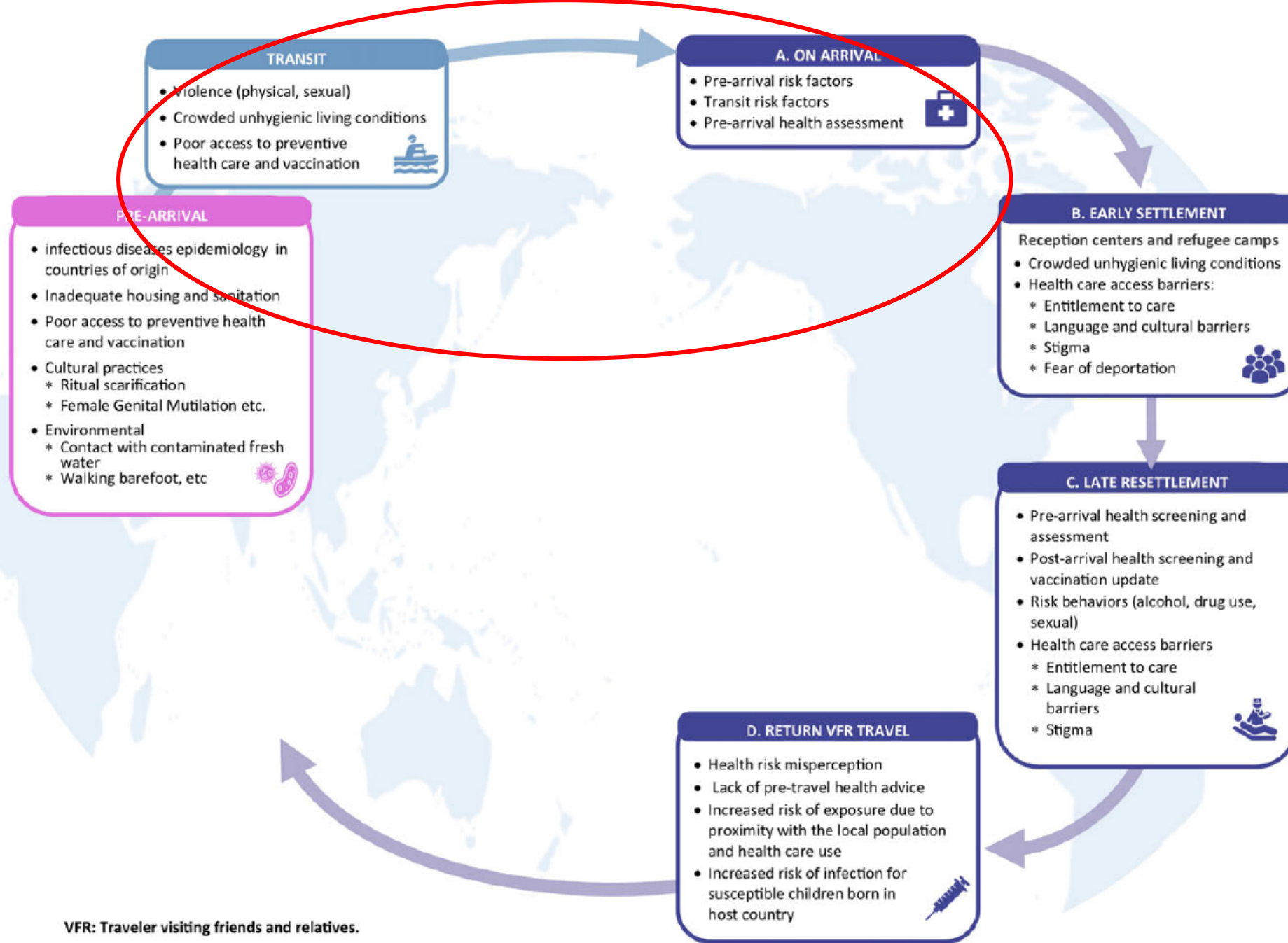


Figure 1. Risk factors for infectious disease exposure or burden at different stages of migration pathway.

# Reported infectious diseases in Fedasil Centres in 2016

Tuberculosis	72
Scabies	345
Hepatitis A	1
Rubella, diphtheria, tetanos	0
Measles	
Mumps	
	134
	8
LBRF	0
Pertussis	0

**Refugees are a generally healthy population!**

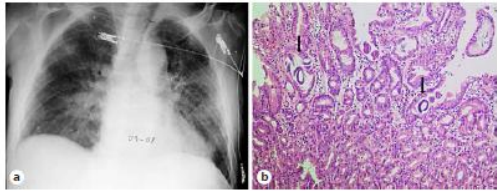
Overcrowding, infections during travel...



**fedasil**  
FEDERAAL AGENTSCHAP VOOR  
DE OPVANG VAN ASIELZOEKERS



# Tropical and exotic infections: cases, not a tsunami

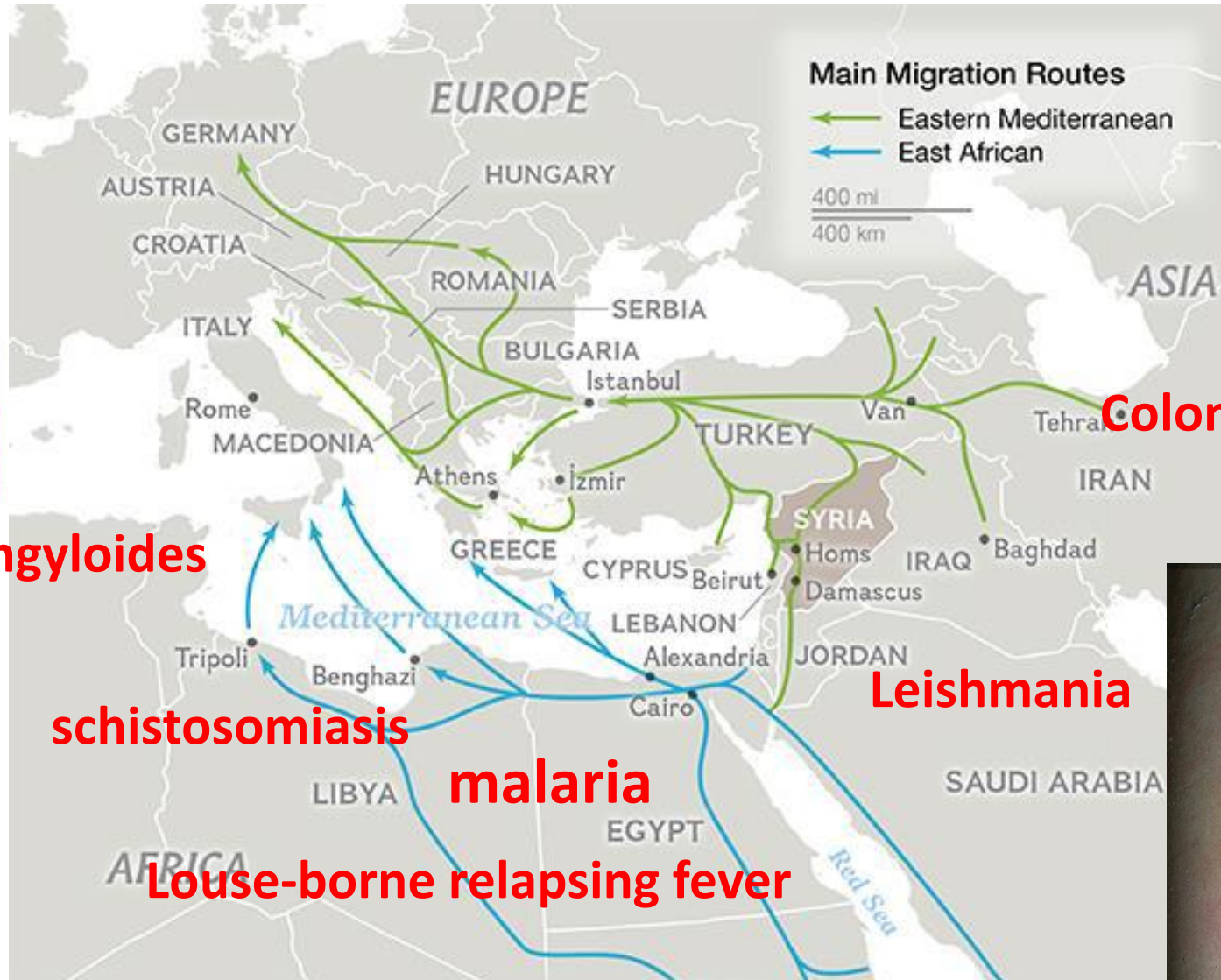
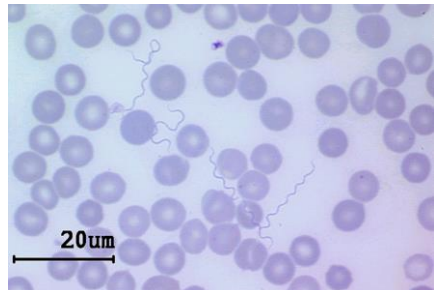


**Strongyloides**

**schistosomiasis**

**malaria**

**Louse-borne relapsing fever**



**Colonisation with MDRO**






**Leishmania**

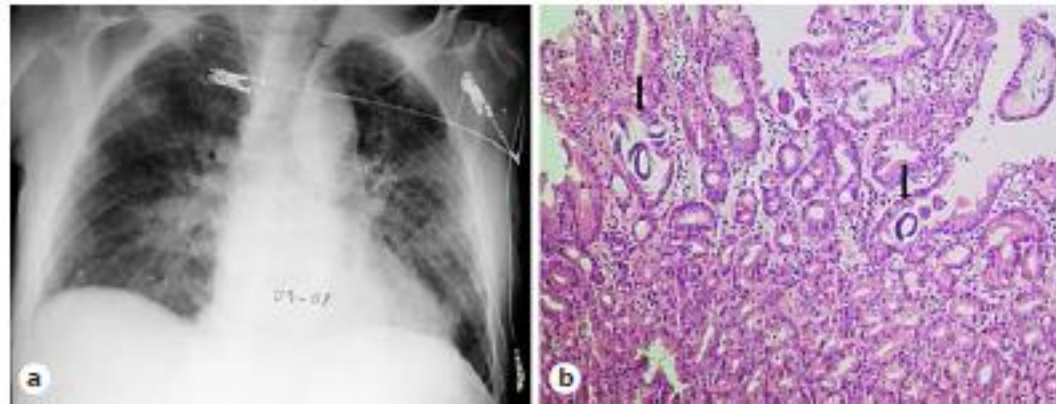




Review

# Effectiveness of Screening and Treatment Approaches for Schistosomiasis and Strongyloidiasis in Newly-Arrived Migrants from Endemic Countries in the EU/EEA: A Systematic Review

Eric N. Agbata <sup>1,2,\*</sup>, Rachael L. Morton <sup>3</sup> , Zeno Bisoffi <sup>4,5</sup>, Emmanuel Bottieau <sup>6</sup>, Christina Greenaway <sup>7</sup>, Beverley-A. Biggs <sup>8,9</sup> , Nadia Montero <sup>10</sup> , Anh Tran <sup>3</sup>, Nick Rowbotham <sup>3</sup>, Ingrid Arevalo-Rodriguez <sup>10,11</sup> , Daniel T. Myran <sup>12</sup>, Teymur Noori <sup>13</sup> , Pablo Alonso-Coello <sup>14</sup>, Kevin Pottie <sup>15</sup> and Ana Requena-Méndez <sup>16</sup>



**Strongyloides hyperinfestation**  
in 77-year old male from Paraguay  
(*Olaru, Respiration* 2017)

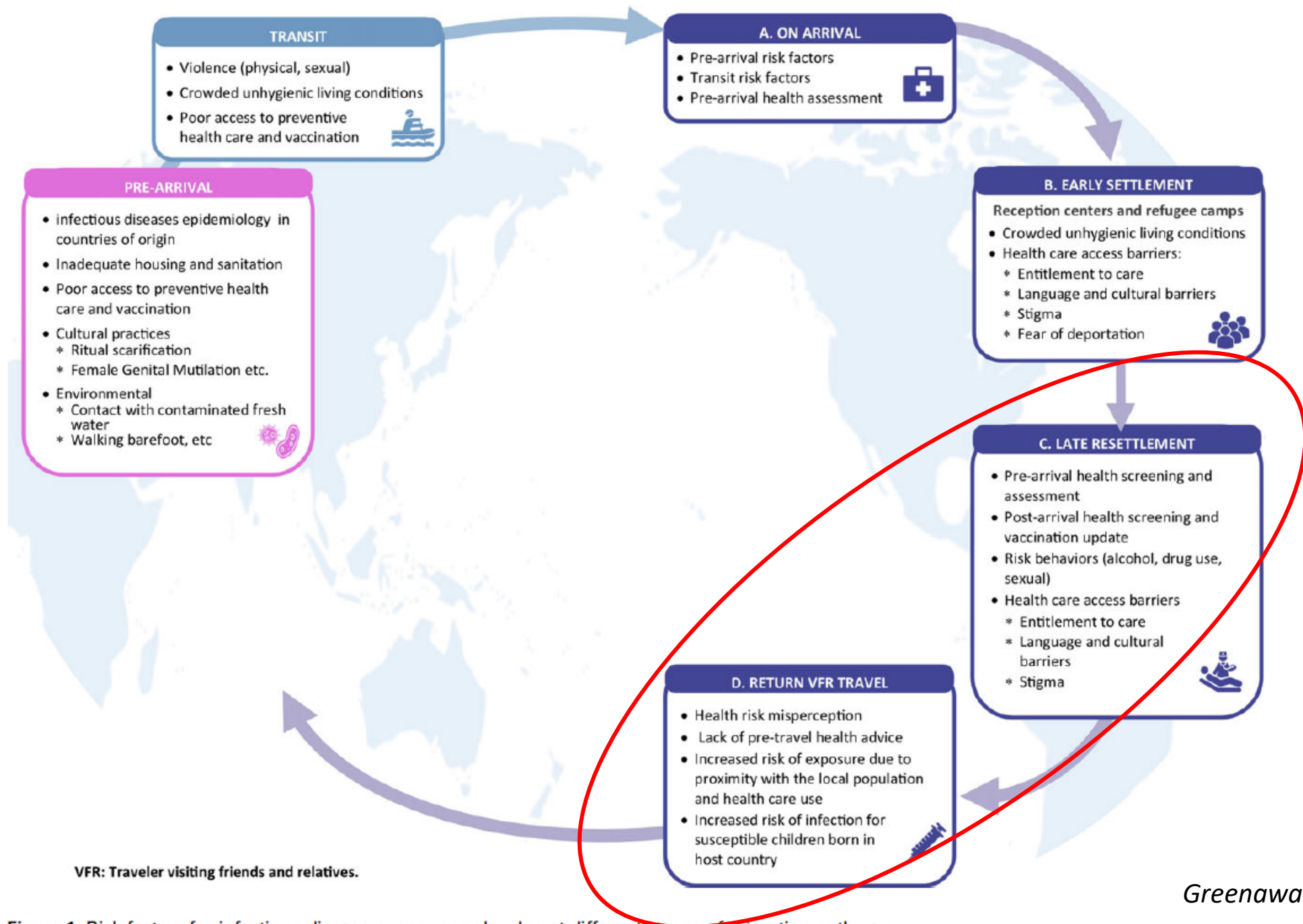


Figure 1. Risk factors for infectious disease exposure or burden at different stages of migration pathway.



# Vaccination policy 2017

## at dispatching

### **POLIO (Imovax®)**

≥ 6 y, people from  
Afghanistan Pakistan,  
Nigeria, RDCongo, Syria

### **Measles –Mumps- Rubella (M.M.R. VaxPro®)**

≥ 18 y born after 1970  
Exept pregnant women

### **Diphtheria-tetanus- Pertussis(Boostrix®)**

All from 12 y

Max 2  
shots!

## In the RC

### **Children 0-18 y:**

#### **All vaccinations**

- < 6 y: via Kind & Gezin
- 6 to 18 y via C.L.B

#### **Adults**

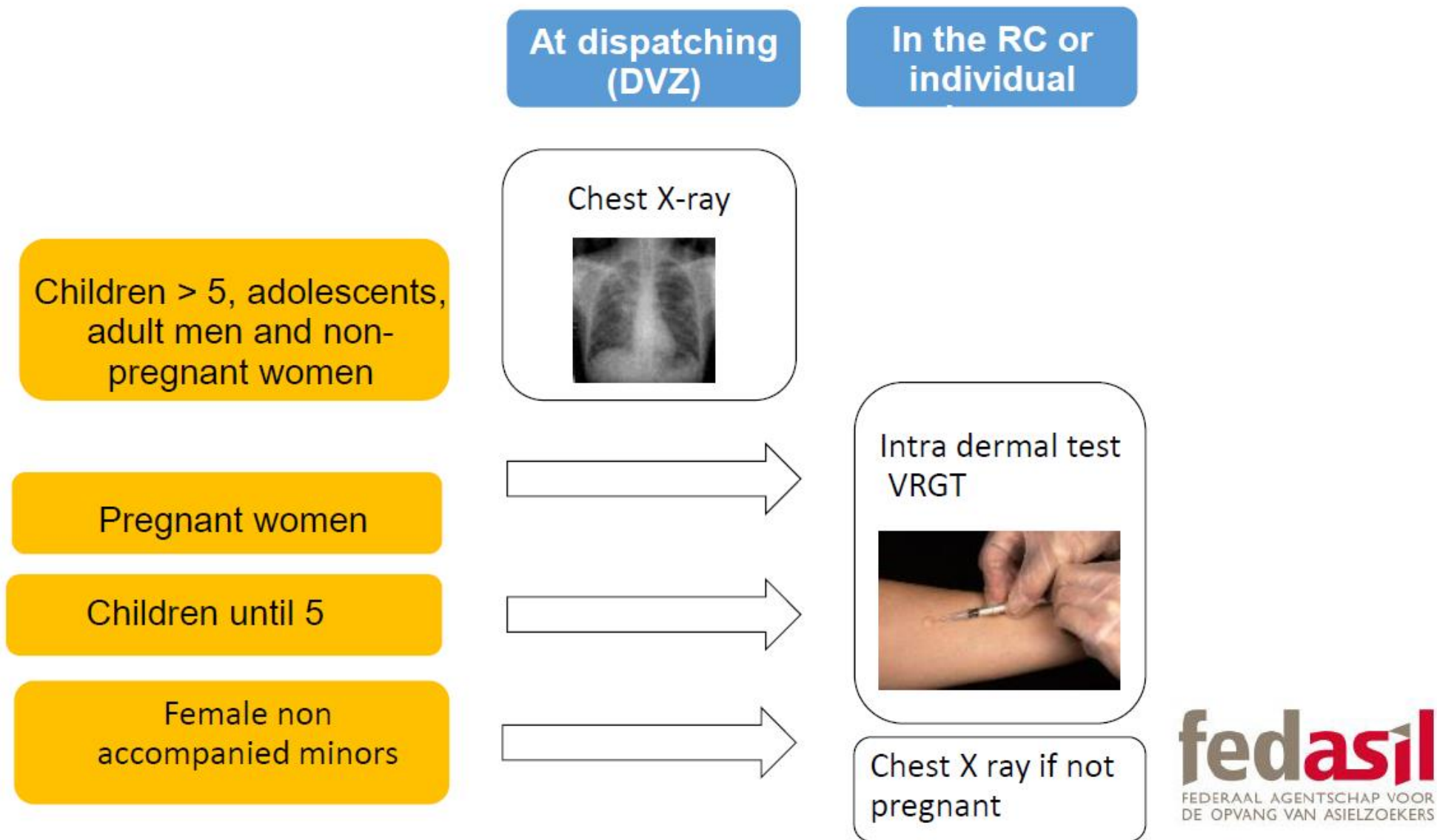
#### **All vaccins to be administered yet**

Plus

2nd dose MMR (M.M.R.  
VaxPro®)



# Screening tbc at arrival: 95% coverage





You are new in Belgium ?

You can have your lungs  
tested for free



## What if tuberculosis is detected ?

- With proper treatment, tuberculosis can be cured fully
- Will you be expelled when you got TBC ?  
No, the screening has no consequences on your residence  
When you got tuberculosis, you will be treated with medicine in Belgium



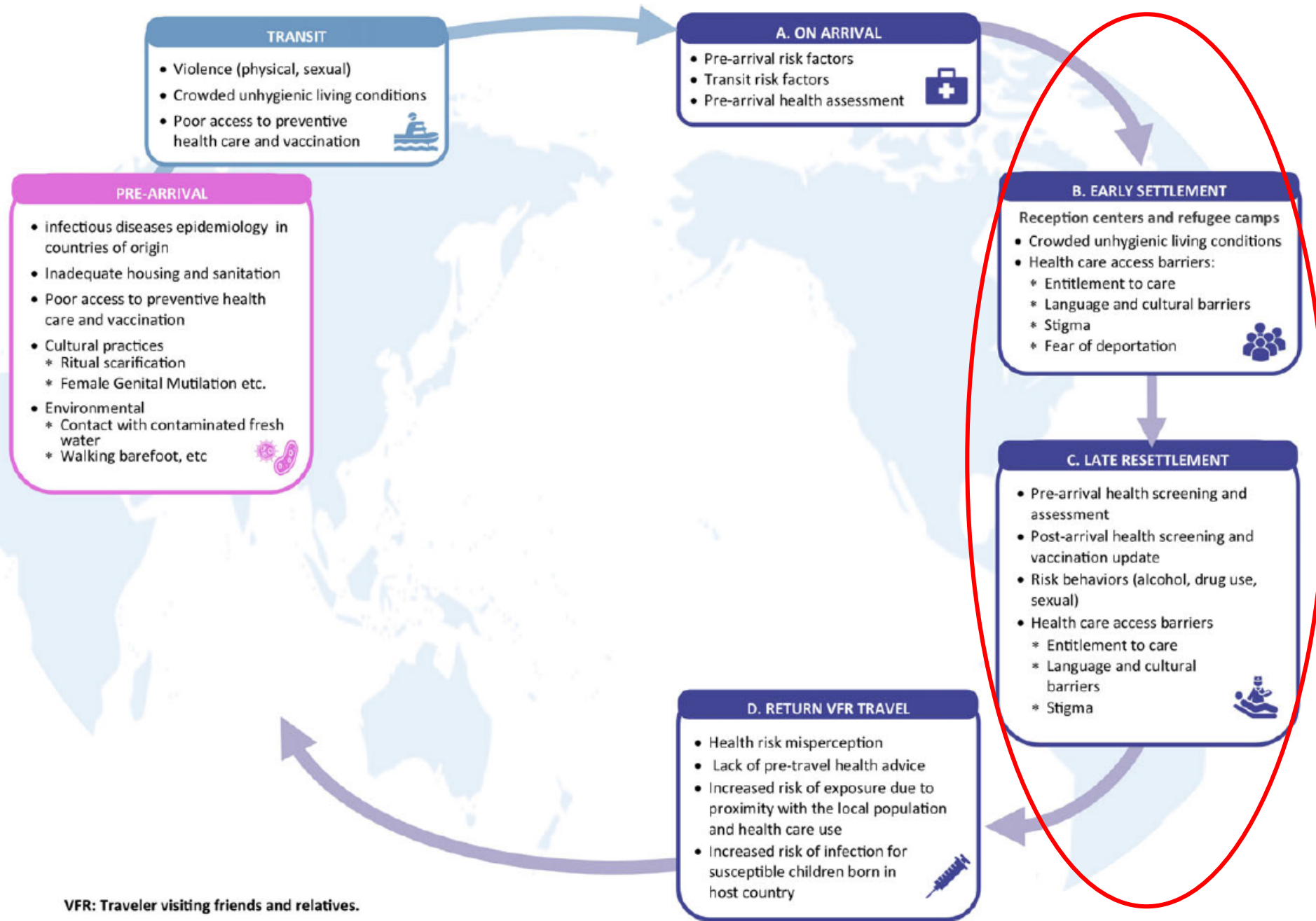
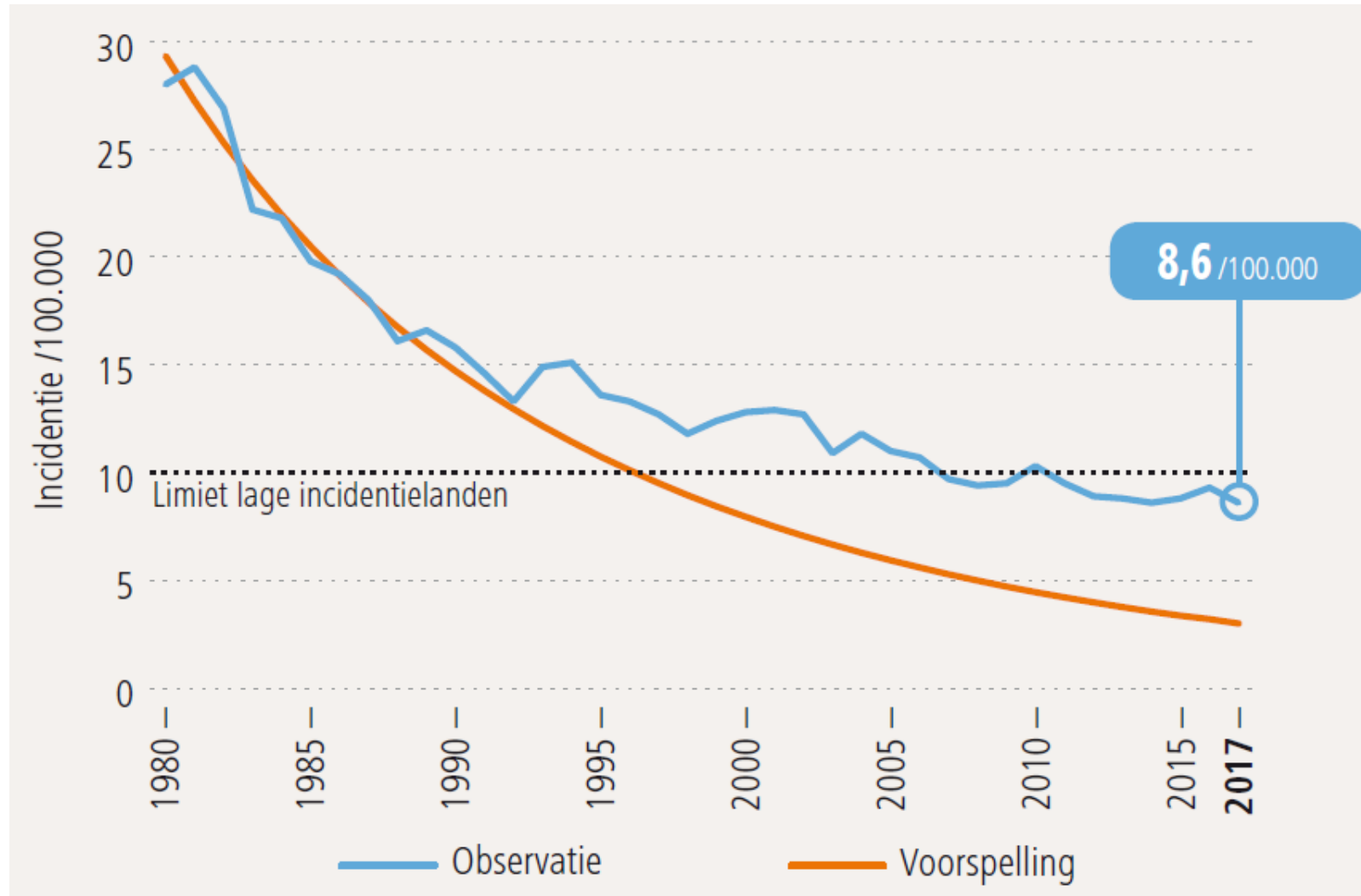


Figure 1. Risk factors for infectious disease exposure or burden at different stages of migration pathway.

# Belgium = low TB-incidence country, but....



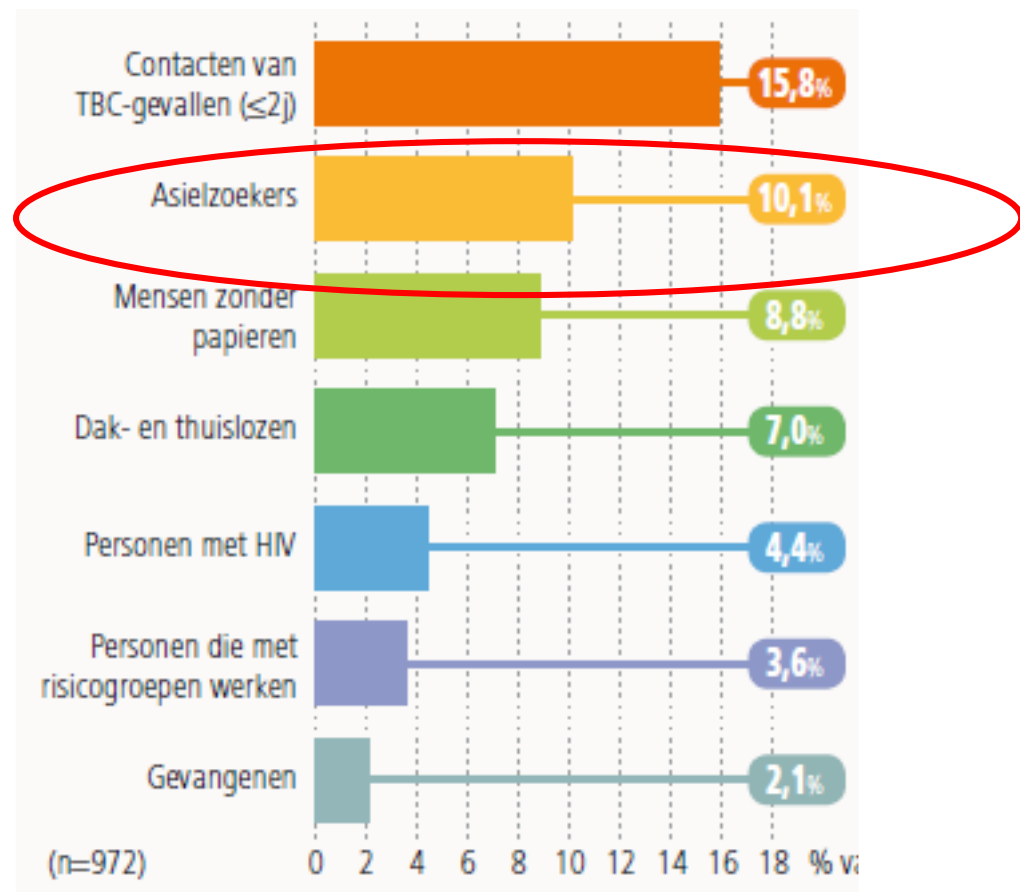
n = 972

**2018**  
**981 cases (Pulm + Extrapulm)**

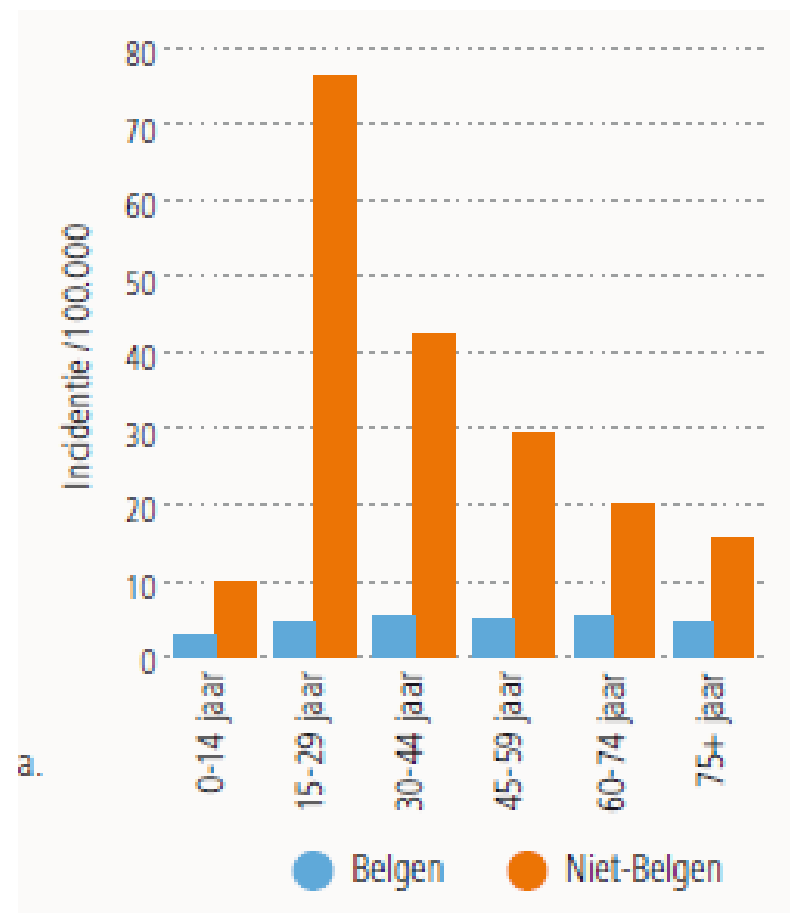
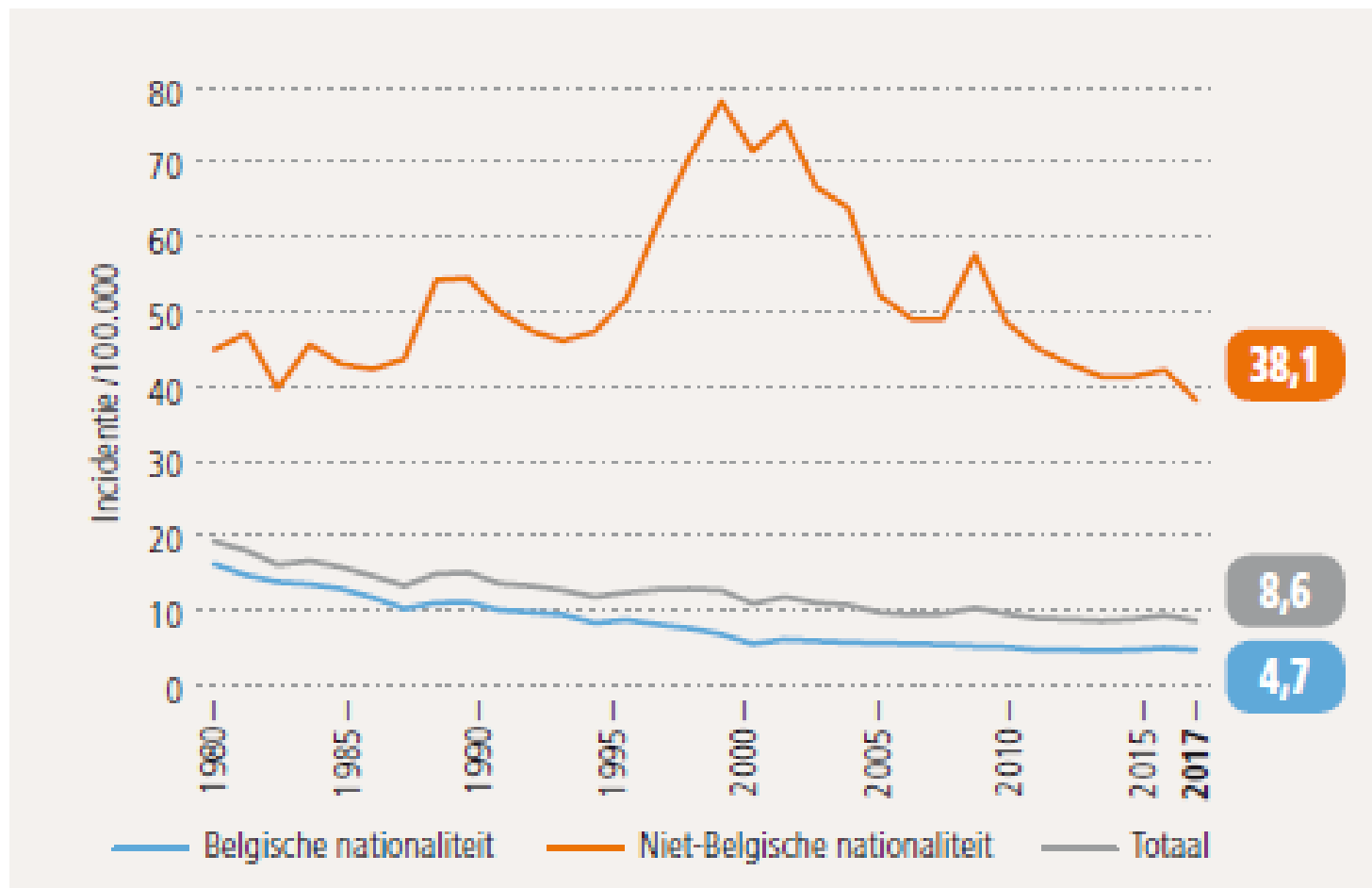
**Incidence: 8,6 / 100.000**

[https://tuberculose.vrgt.be/sites/default/files/Tuberculose%20in%20Belgi%C3%AB%20in%20fografiek%20register%202017\\_1.pdf](https://tuberculose.vrgt.be/sites/default/files/Tuberculose%20in%20Belgi%C3%AB%20in%20fografiek%20register%202017_1.pdf)

# Risk groups for TB in Belgium 2017



# Incidence in non-Belgians up to 8 x higher

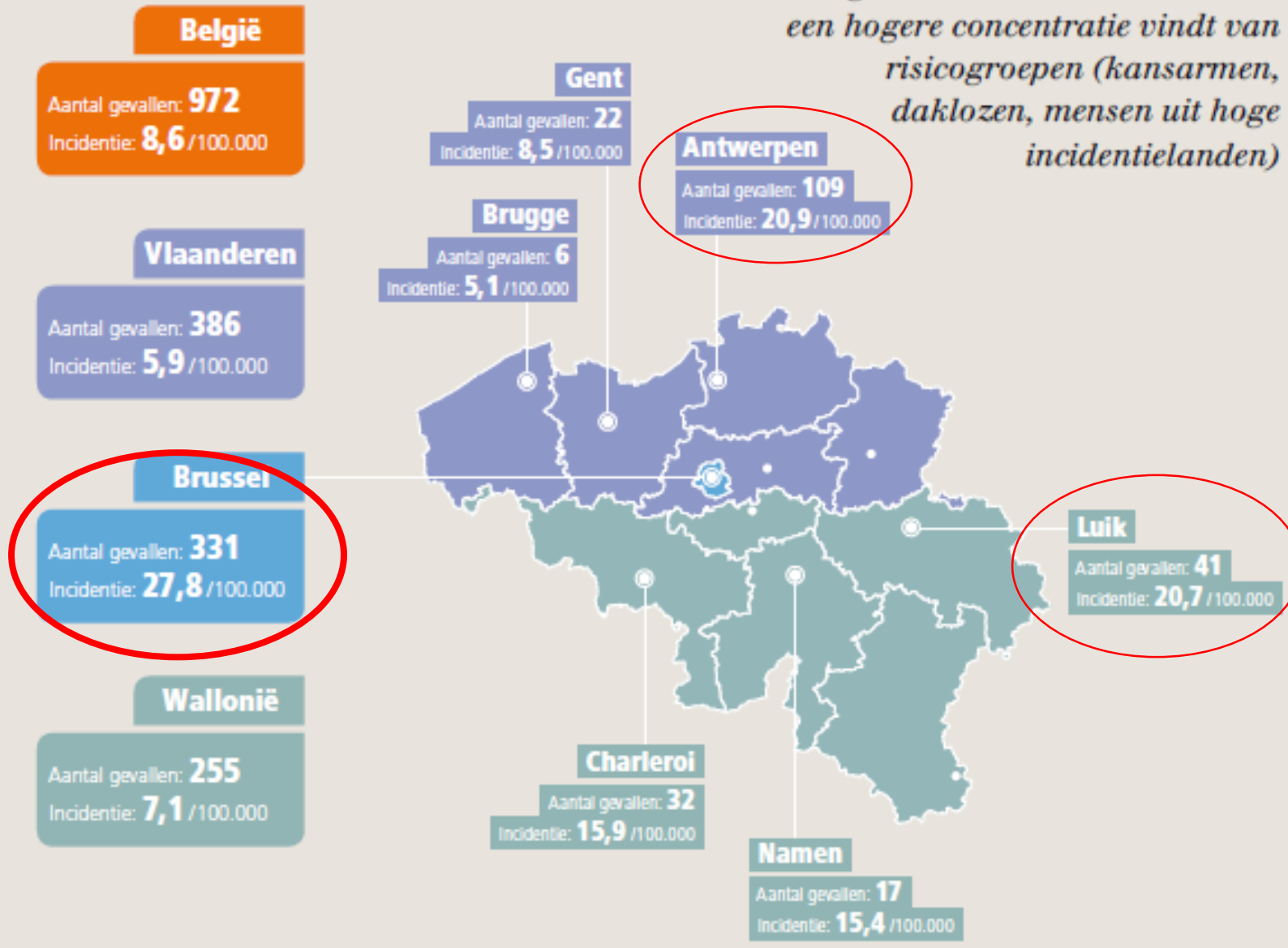




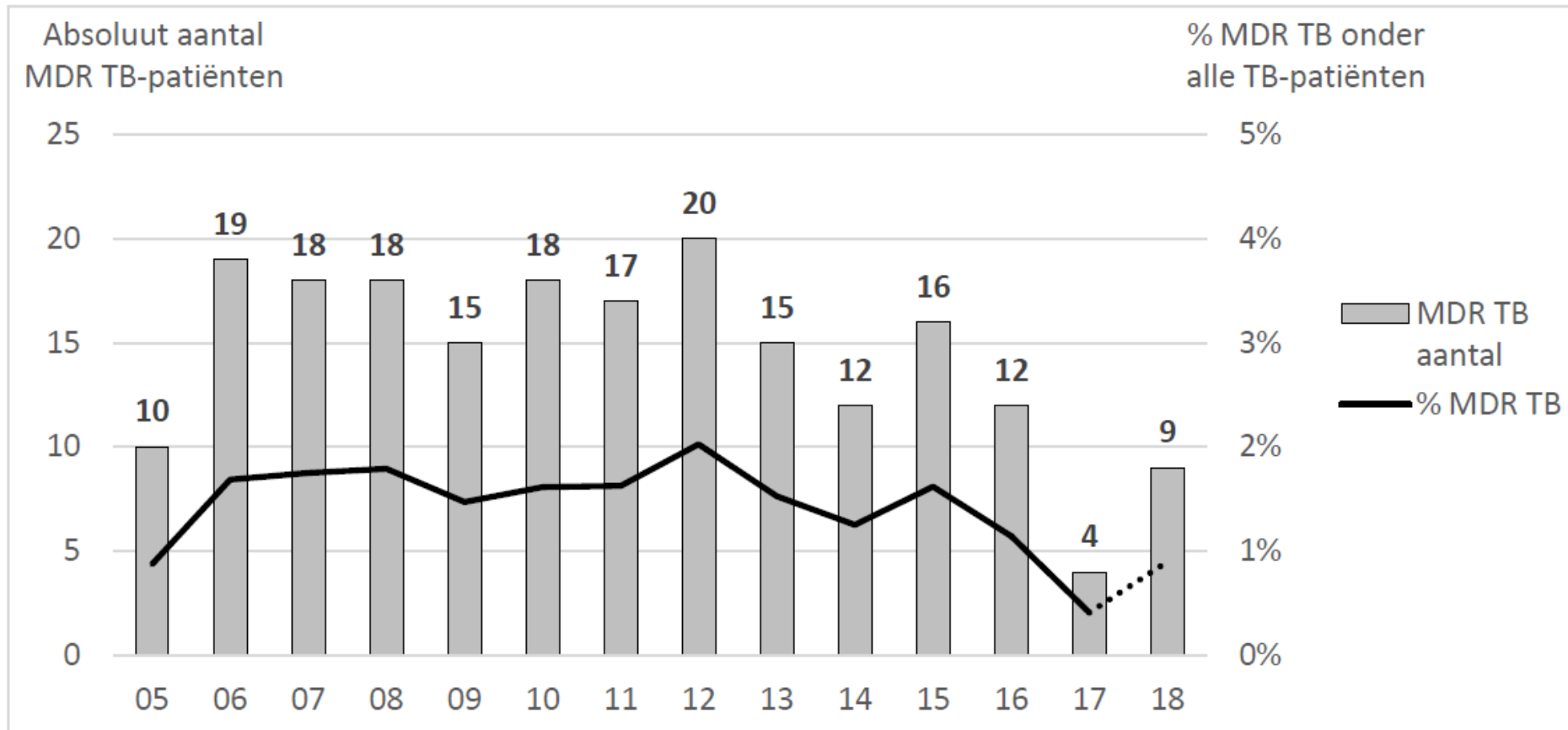
2017 data

Big city problem

*Tuberculose komt vaker voor in de grote steden omdat men daar een hogere concentratie vindt van risicogroepen (kansarmen, daklozen, mensen uit hoge incidentielanden)*



# MDR-TB is also declining





# Characteristics programme



Specialised and trained TB-nurses and social workers

Active screening asylum seekers, detainees

Notification + Contact investigation



Vlaanderen  
is zorg

Training: first line health care



Free for the patient: **BELTA-TBnet programme** (Guido Groenen)

- All diagnosis and treatment
- All human beings
- MDR







federal public service  
HEALTH, FOOD CHAIN SAFETY AND ENVIRONMENT

Home ► Superior Health Council



# Superior Health Council

**Fragmented competencies**

**Need for more coordinated approach  
across communities and departments**

**TB: prevention or treatment??**

**Position paper 9206: call for coordination  
with a view to eliminating tuberculosis in  
Belgium: threats and solutions (March 2016)  
(SHC 9206)** (only available in Dutch or French)

In this position paper on public health policy, the Superior Health Council of Belgium provides an expert opinion on the tuberculosis eradication plan for the Belgian population and puts a particular focus on vulnerable people (homeless people, prison inmates and migrants). This position paper aims at providing the authorities in charge of Public Health, Social Security, Anti-poverty Policy and Justice, as well as the Immigration Office and various administrations and Belgian institutions concerned with tuberculosis with specific recommendations on the best scientific practice for tuberculosis eradication in Belgium (WHO 2050).

**Federal level**

**State structure**

- **Fragmented competences**
- **Slow decision making process**
- **Particularly difficult for cross-cutting topics**

**Three regions**



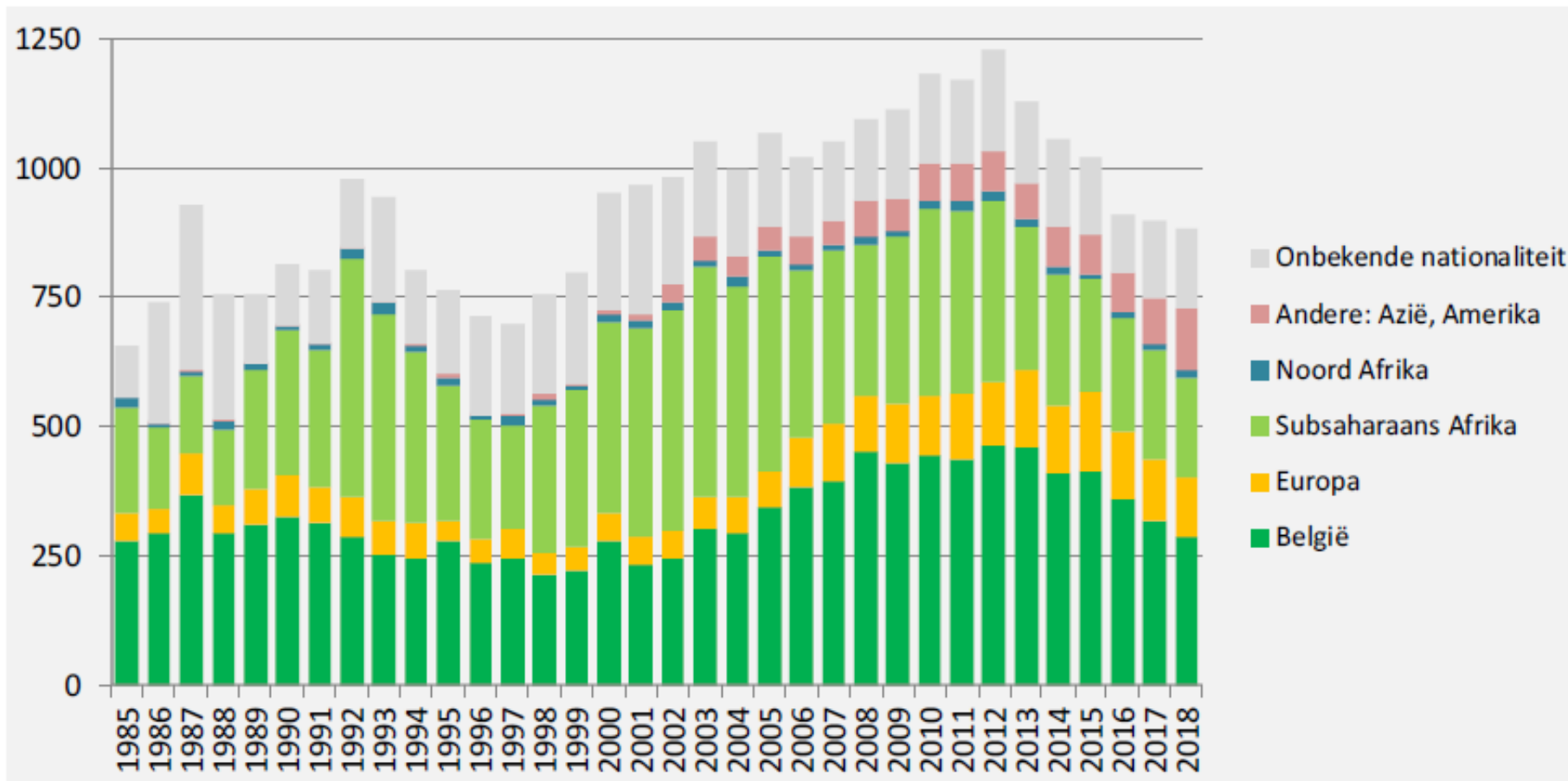
**1 federal MoH**

**3 regional MoH's (Flanders, Wallonie, Brussels)**

**3 official languages (+ English)**

# HIV in Belgium (2018)

Figuur 4. Evolutie van het jaarlijks aantal nieuwe hiv-diagnoses, per nationaliteit (gegroepeerd), België, 1985-2018



Cumulative PLHA: 16,673

New HIV in 2018: 882

Overall -38% since 2012!!

+50% LAM, SEA

-43% in persons from sSA

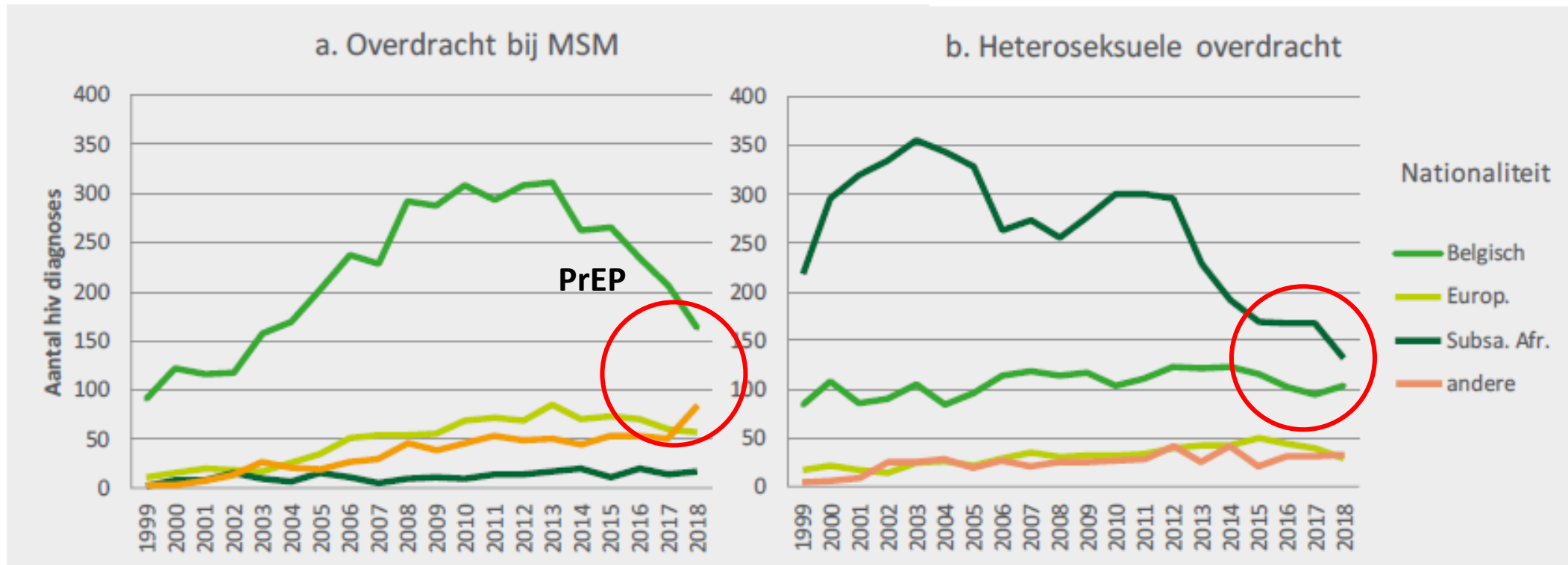
49% MSM

47% hetero

43% sSA (2/3 women)

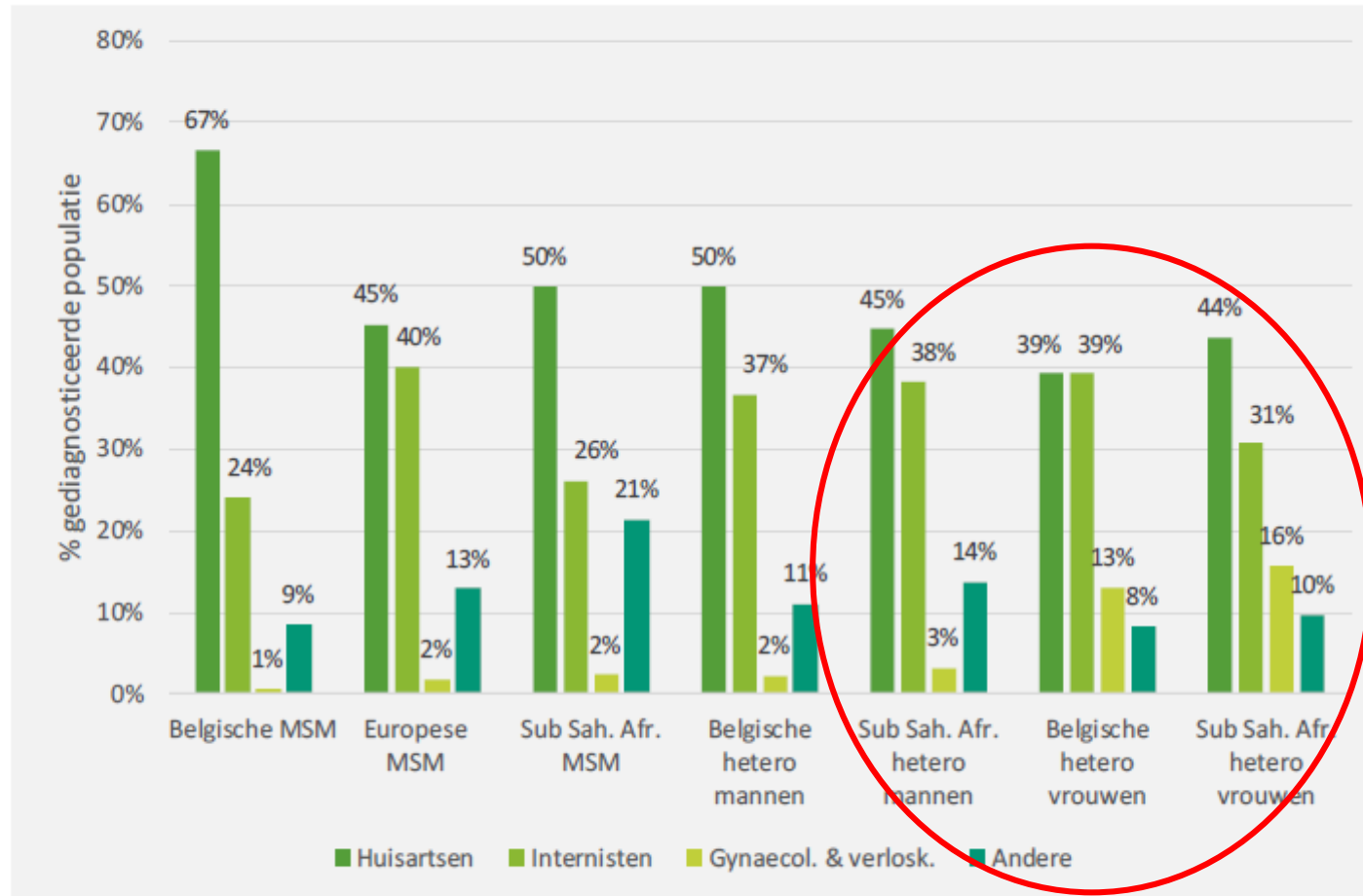
34% Belgian

Figuur 6. Evolutie van het jaarlijks aantal nieuwe diagnoses per overdrachts-wijze en nationaliteit, België, 1999-2018



# Who makes HIV-diagnosis?

Figuur 24. Type arts die de diagnose vaststelde per type populatie, 2016-2018.



Late diagnosis in 30-40%

Low threshold testing

First line

But also specialists

→ Training needs:

- Indicator diseases
- Use every opportunity...

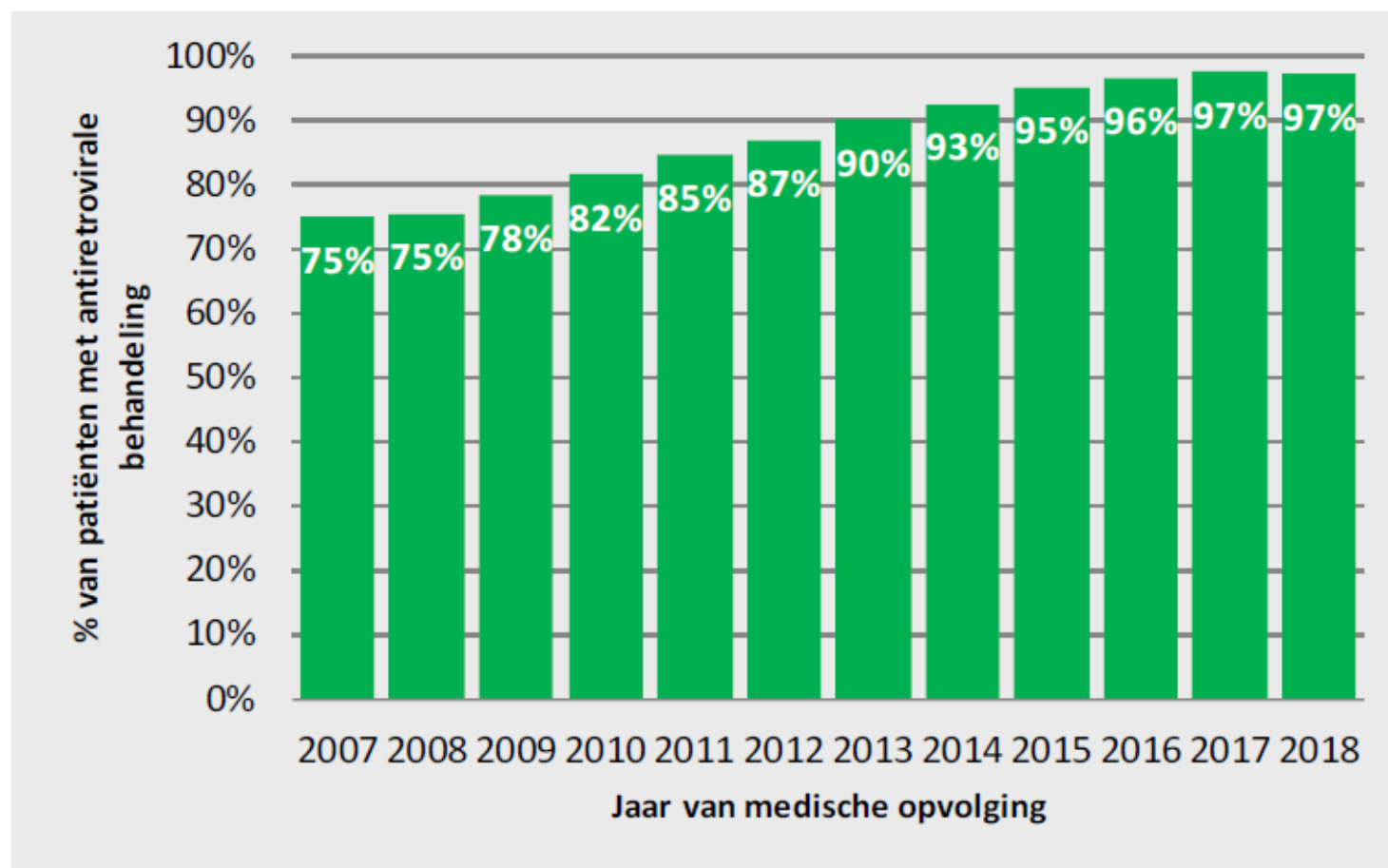
Barriers to testing:

- non-awareness (pt + doctor!)
- access to care
- (self)-stigma
- so many other things to do...



# Excellent linkage to care

Figuur 37. Aandeel patiënten dat antiretrovirale behandelingen kreeg per jaar van opvolging in de Hiv-Referentiecentra, 2007-2018



91% with HIV have Dx

97% with Dx are on ARV


97% on ARV are undetectable

Provided access  
to care and  
treatment



**RESEARCH ARTICLE**

# Prevalence and risk factors of hepatitis B virus infection in Middle-Limburg Belgium, year 2017: Importance of migration

Özgür M. Koc<sup>1,2,3</sup>  | Cécile Kremer<sup>4</sup> | Rob Bielen<sup>1,2</sup> | Dana Buscchots<sup>1,2</sup> |  
Niel Hens<sup>4,5</sup> | Frederik Nevens<sup>6</sup> | Geert Robaey<sup>1,2,6</sup>

**1131 people screened**

**Overall prevalence of HbsAg+ 0,97%**

- **0,67 Belgians**
- **2,55% first generation migrants**


RESEARCH ARTICLE

Open Access



# Low hepatitis C prevalence in Belgium: implications for treatment reimbursement and scale up

**DAA reimbursed since 1/2019  
(conditionally)**

Amber Litzroth<sup>1\*</sup> , Vanessa Suin<sup>2</sup>, Chloé Wyndham-Thomas<sup>1</sup>, Sophie Quoilin<sup>1</sup>, Gaëtan Muyldermans<sup>1</sup>, Thomas Vanwolleghem<sup>3,4</sup>, Benoît Kabamba-Mukadi<sup>5</sup>, Vera Verburgh<sup>2</sup>, Marjorie Jacques<sup>2</sup>, Steven Van Gucht<sup>2</sup> and Veronik Hutse<sup>2</sup>

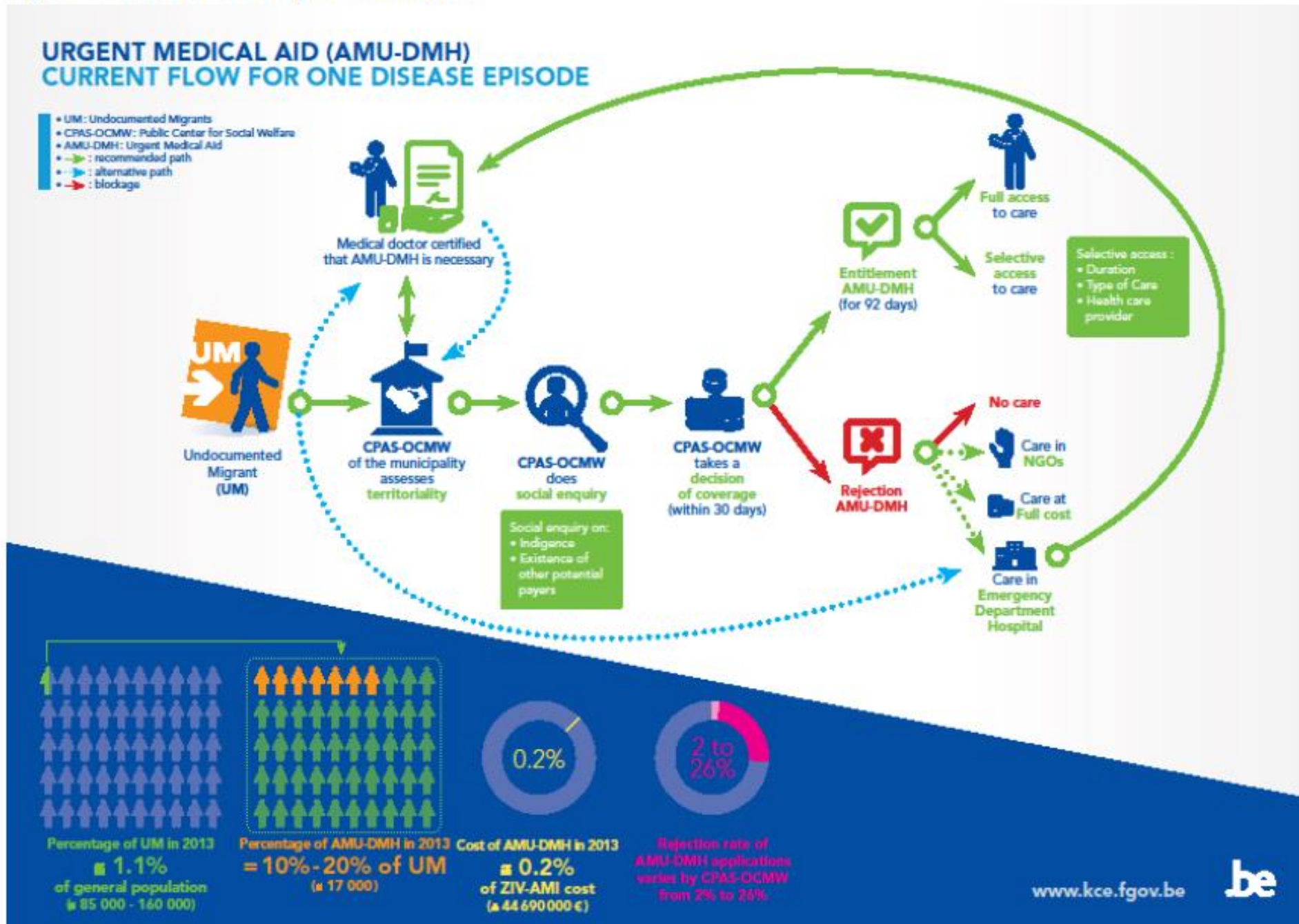
**Calculated prevalence HCV+ in general population 0,22%**

**Estimated prevalence of HCV in risk groups ~8%**

- HIV
- IVDU
- Prisoners
- migrants

One of the main limitations of this study is that we may have underrepresented some specific risk groups, such as people with HIV/HCV coinfection, people with evidence of multiple transfusions, prisoners, migrants and injecting drug users (IDU). Due to exclusion of known immunocompromised individuals, we may have missed those people with HIV/HCV coinfection, which mainly occurs in men who have sex with men (MSM) and IDU. In 2013 there

Figure 1 – Overview of Urgent Medical Aid



Medical lifeline for patients without papers

Slow and bureaucratic process

Under threat by budget cuttings...



## “Schurft, malaria en tuberculose in Noordstation”: chauffeurs De Lijn vrezen voor eigen gezondheid

SZM | 03 mei 2019 | 19u35

f DEEL   21 REACTIES



© Baert Marc - De blijvende ellende in Brussel Noord:

Brussel-Noord

## Dokters van de Wereld: ‘Geen uitbraak van tbc, schurft of malaria in Brussel-Noord’



Een transitmigrant urineert nabij de stopplaats van De Lijn in Brussel-Noord.  
Beeld Wouter Van Vooren

**Federal and regional elections: 26/5/2019**

# Conclusions

- Newly arriving migrants
  - generally healthy population
  - minimal impact on local epidemiology/'medical footprint'
- Later stages of migration
  - Social determinants influence health
  - Burden of disease for individual health
  - Access to care = essential
- Coordination across sectors
- Neutral and objective approach is essential

# Thanks to...

- Wouter Arrazola de Oñate/VRGT
- Annemie Hoogewys/Fedasil
- Sciensano
- Commissariaat Generaal voor de Statenlozen
- Collega's ITG & UA
- Patients who happen to be migrants/refugees