POLICYLAB

April 3, 2018

POLICYLAB WEBINAR SERIES

Stay up to date by signing up for our newsletter:



PRESENTERS



Katherine Yun, MD, MHS
Faculty Member, PolicyLab at Children's Hospital of Philadelphia,
Assistant Professor of Pediatrics at Children's Hospital of Philadelphia
and the University of Pennsylvania Perelman School of Medicine



Blain Mamo, MPH
Refugee Health Coordinator, Minnesota Department of Health



HOUSEKEEPING

- Use the "Questions" tab for any questions throughout the webinar
- We will be showing two short videos as part of the presentation; sound playback is limited to computer audio
- Find the archived webinar on PolicyLab's website and YouTube page on April 4th
- Please fill out the post-webinar survey





POLICYLAB

April 3, 2018

REFUGEE HEALTH CARE IN THE UNITED STATES

Katherine Yun, MD, MHS, and Blain Mamo, MPH





PRESENTERS



Katherine Yun, MD, MHS
Faculty Member, PolicyLab at Children's Hospital of Philadelphia,
Assistant Professor of Pediatrics at Children's Hospital of Philadelphia
and the University of Pennsylvania Perelman School of Medicine

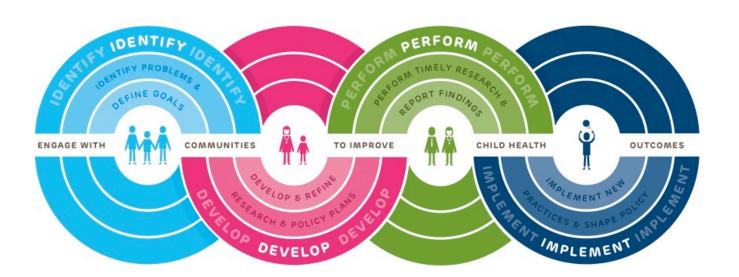


Blain Mamo, MPH
Refugee Health Coordinator, Minnesota Department of Health



INNOVATING THROUGH POLICYLAB

At PolicyLab we seek to achieve optimal child health and well-being by informing program and policy changes through interdisciplinary research.



- 1. The continuum of care from overseas to arrival in the U.S. for refugees
- 2. Three common models of refugee health care in the U.S.
- 3. How to standardize health care for newly-arriving refugees
- 4. Steps for health systems and community partners to ensure the best care for this population



ABOUT THE MINNESOTA DEPARTMENT OF HEALTH

Our program's mission is to promote and enhance the health and well-being of refugees.

- Refugee screening coordination
- Health care provider education
- Technical assistance, education and resources to local, state and community partners
- Leadership and guidance to national partners

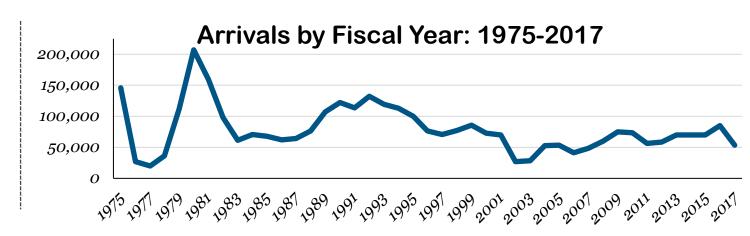


U.S. REFUGEE RESETTLEMENT

[A refugee is] someone who 'owing to a well-founded fear of being persecuted for reasons of race, religion, nationality, membership of a particular social group or political opinion, is outside the country of his nationality' and is unable to return.

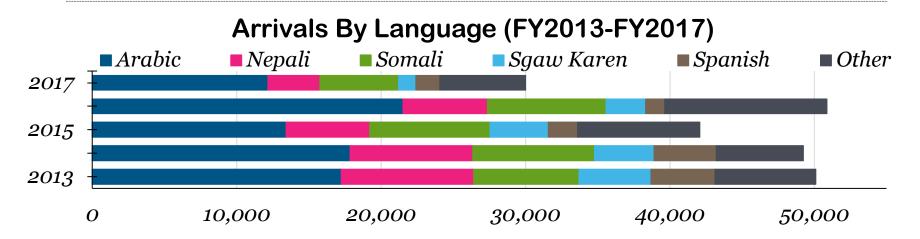
- UN Refugee Protocol & Convention

~65.6 million displaced people includes ~22.5 million refugees (UNHCR Global Trends)





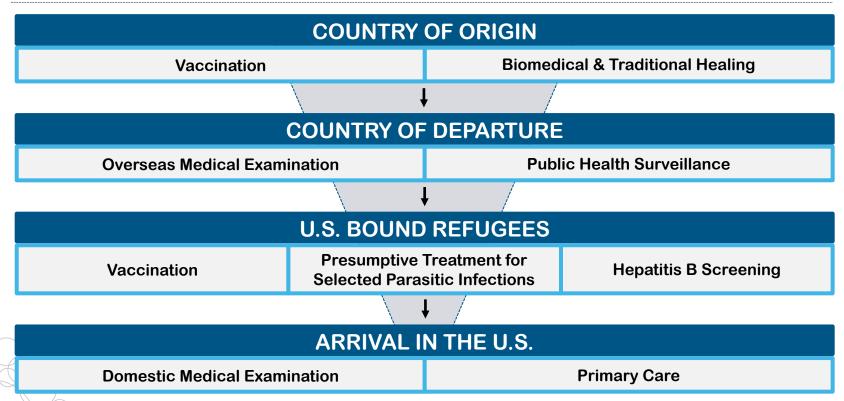
U.S. REFUGEE RESETTLEMENT



- Refugees arriving in the U.S. are diverse with regards to nationality, ethnicity, religion, and language
- Refugee populations arriving in the U.S. change significantly over time, reflecting events on the world stage

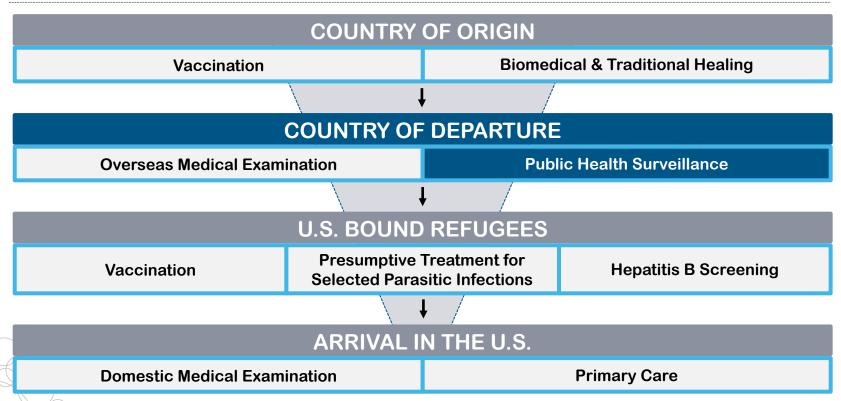


HEALTH CARE BEGINS OVERSEAS





HEALTH CARE BEGINS OVERSEAS







Centers for Disease Control and Prevention

Outbreak notification: Cholera in Lusaka, Zambia

February 2nd, 2018

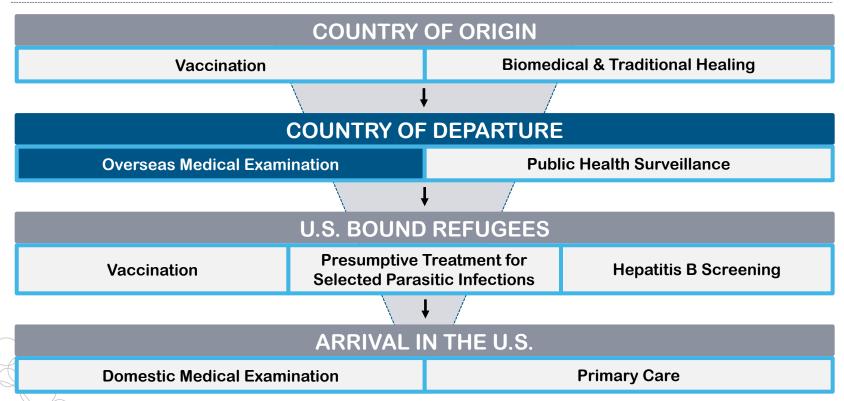
Dear State Refugee Health Coordinator:

We are writing to notify you of a cholera outbreak in Lusaka, Zambia, and to inform you of measures CDC and partners have taken to reduce the risk of cholera among U.S.-bound refugees. Zambia has been experiencing a widespread cholera outbreak since October 2017. Although areas at risk for cholera do not currently include the refugee camps or the transit centers, CDC, the International Organization for Migration (IOM), and in-country partners have implemented public health measures to prevent cases, including improvements in water and sanitation, case management, and community outreach and education. To date, no cases of cholera have occurred among U.S.-bound refugees.

Specifically, the public health measures include:



HEALTH CARE BEGINS OVERSEAS





OVERSEAS MEDICAL EXAMINATION

Communicable diseases of public health significance include:

- Tuberculosis
- Syphilis
- Gonorrhea
- Hansen's Disease (Leprosy)

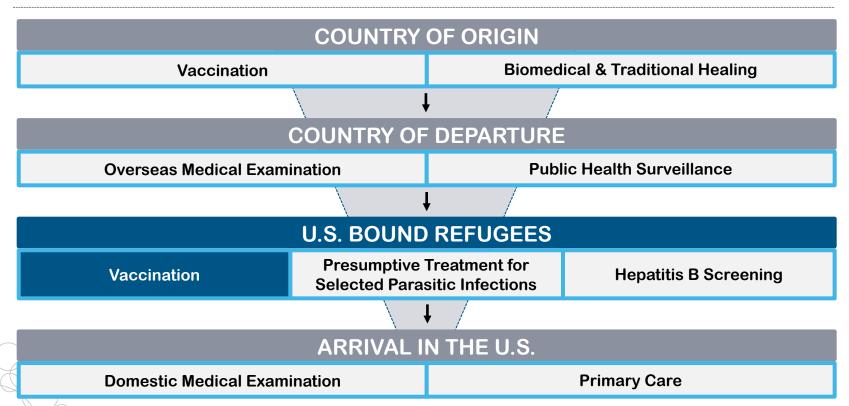
And the following two disease categories:

- Quarantinable diseases designated by any Presidential Executive Order
- Events that are reportable as a public health emergency of international concern (PHEIC) to the World Health Organization (WHO) under the International Health Regulations (IHR) of 2005

https://www.cdc.gov/immigrantrefugeehealth/exams/medical-examination-faqs.html#5



HEALTH CARE BEGINS OVERSEAS





VACCINES GIVEN TO ELIGIBLE U.S.-BOUND REFUGEES

Vaccination Program for U.S.–Bound Refugees: Immunization Schedule (updated August 2016) Prepared by the Immigrant, Refugee and Migrant Health Branch, Division of Global Migration and Quarantine, CDC

Vaccines Given to Eligible U.SBound Refugees				
Birth-adult	HepB x 2 ¹			
6 wks-<15 wks	Rotavirus x 2 (maximum age for dose 2 is 8 mos)			
6 wks-<5 yrs	Hib (x 2 if <15 mos; x1 if 15 mos-5 yrs) ²			
	PCV-13 (x 2 if <2 yrs; x1 if 2-5 yrs) ³			
6 wks -<7 yrs	DTP x 1 ⁴			
6 wks-<11 yrs	Polio x 2 doses (OPV, IPV, or one of each)			
7 yrs-adult	Td x 2			
≥ 1 yr-born ≥ 1957	MMR x 2			

¹ Refugees are tested for hepatitis B virus infection (HBsAg) prior to vaccination, and are vaccinated only if negative (and if a dose is due).

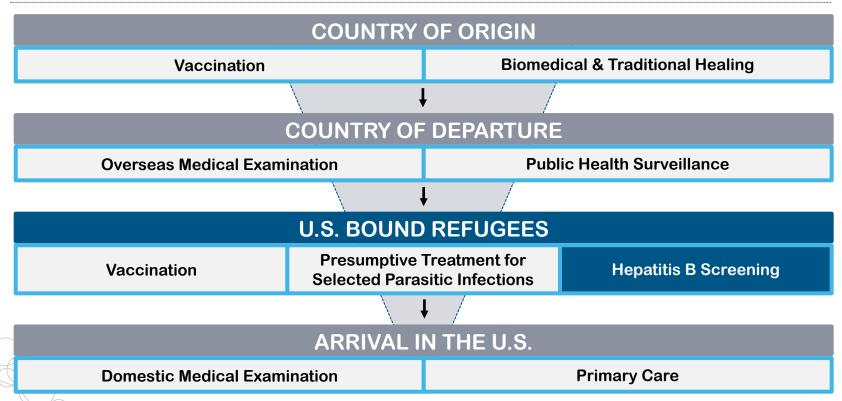


²One dose of Hib vaccine is recommended for unimmunized asplenic persons regardless of age, and for unimmunized HIV-positive patients up to age 18 years.

³When available, PCV–13 will be given to children 6 wks -<5 yrs of age. A second dose will be given to children up to age 2 yrs. One dose of PCV-13 will also be recommended for all immunocompromised persons, regardless of age.

⁴Children residing in refugee camps often receive several doses of whole-cell pertussis (DTwP) as part of camp EPI programs. Children enrolled in the Vaccination Program for U.S.-bound Refugees will receive only 1 dose of DTP or pentavalent (DTP-Hib-HepB) from IOM/Panel Physicians, if due, in order to reduce the risk of severe local reactions

HEALTH CARE BEGINS OVERSEAS





VACCINES GIVEN TO ELIGIBLE U.S.-BOUND REFUGEES

Vaccination Program for U.S.–Bound Refugees: Immunization Schedule (updated August 2016) Prepared by the Immigrant, Refugee and Migrant Health Branch, Division of Global Migration and Quarantine, CDC

Vaccines Given to Eligible U.SBound Refugees				
Birth-adult	HepB x 2 ¹			
6 wks-<15 wks	Rotavirus x 2 (maximum age for dose 2 is 8 mos)			
6 wks-<5 yrs	Hib (x 2 if <15 mos; x1 if 15 mos-5 yrs) ²			
	PCV-13 (x 2 if <2 yrs; x1 if 2-5 yrs) ³			
6 wks -<7 yrs	DTP x 1⁴			
6 wks-<11 yrs	Polio x 2 doses (OPV, IPV, or one of each)			
7 yrs-adult	Td x 2			
≥ 1 yr-born ≥ 1957	MMR x 2			

¹ Refugees are tested for hepatitis B virus infection (HBsAg) prior to vaccination, and are vaccinated only if negative (and if a dose is due).

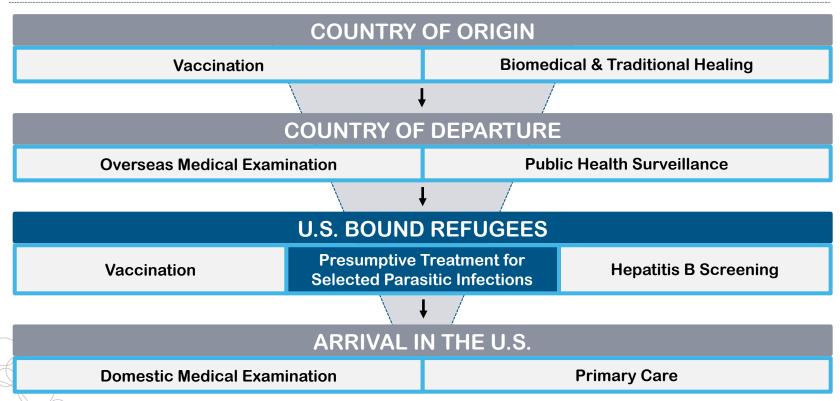


²One dose of Hib vaccine is recommended for unimmunized asplenic persons regardless of age, and for unimmunized HIV-positive patients up to age 18 years.

³ When available, PCV–13 will be given to children 6 wks -<5 yrs of age. A second dose will be given to children up to age 2 yrs. One dose of PCV-13 will also be recommended for all immunocompromised persons, regardless of age.

⁴Children residing in refugee camps often receive several doses of whole-cell pertussis (DTwP) as part of camp EPI programs. Children enrolled in the Vaccination Program for U.S.-bound Refugees will receive only 1 dose of DTP or pentavalent (DTP-Hib-HepB) from IOM/Panel Physicians, if due, in order to reduce the risk of severe local reactions

HEALTH CARE BEGINS OVERSEAS



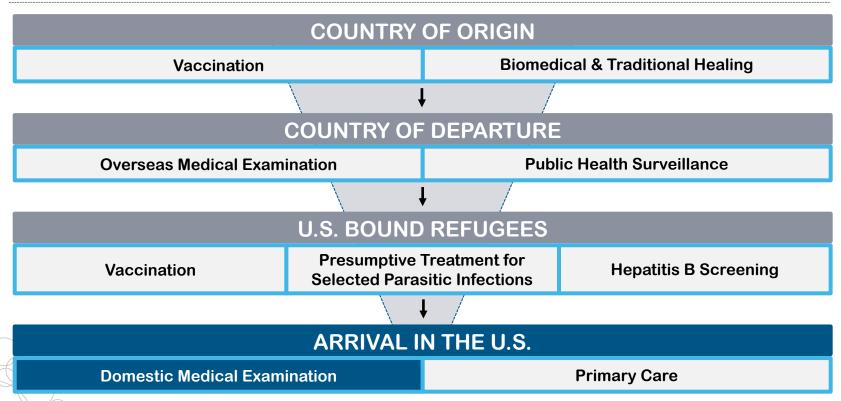


TREATMENT SCHEDULES FOR PRESUMPTIVE PARASITIC INFECTIONS FOR U.S.-BOUND REFUGEES, ADMINISTERED BY IOM – FEBRUARY 2017

Region	Country of Processing	Principal Refugee Groups	Presumptive Parasite Treatment for Eligible Refugees	Special Notes
	Chad	Central African Republic; Sudanese Darfuri	Albendazole, Praziquantel Artemether-lumefantrine	Ivermectin is not administered to refugees who have resided or traveled in <i>Loa loa</i> -endemic countries due to risk of encephalopathy associated with ivermectin treatment in a person with <i>Loa loa</i> infection.
Africa	Burundi, Dijbouti, Ethiopia, Kenya, Rwanda, South Africa, Tanzania, Uganda, others	Somali; Congolese, Ethiopian; Eritrean; Sudanese (other than Sudanese Darfuri); South Sudanese	Albendazole Praziquantel Ivermectin Artemether- lumefantrine	Of note, refugees of Congolese or South Sudanese origin who resided or traveled in Democratic Republic of Congo (DRC) or South Sudan do NOT receive ivermectin. However, children of Congolese or South Sudanese orgin who were born in the camps in non <i>Loa loa</i> -endemic countries and have not resided or traveled in DRC or South Sudan are (usually) treated with



HEALTH CARE BEGINS OVERSEES





REFUGEE HEALTH CARE IN THE U.S.

Public Health System

Health Care System

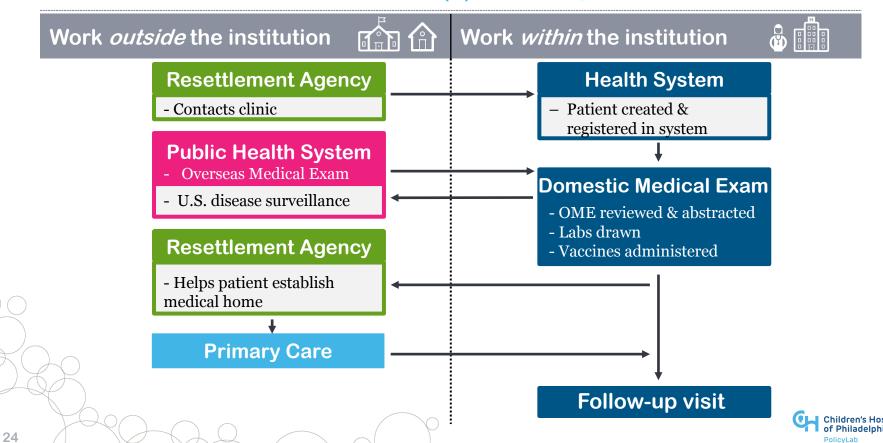
Domestic Medical Exam

Resettlement Agencies

Health Insurance /
Refugee Medical
Assistance

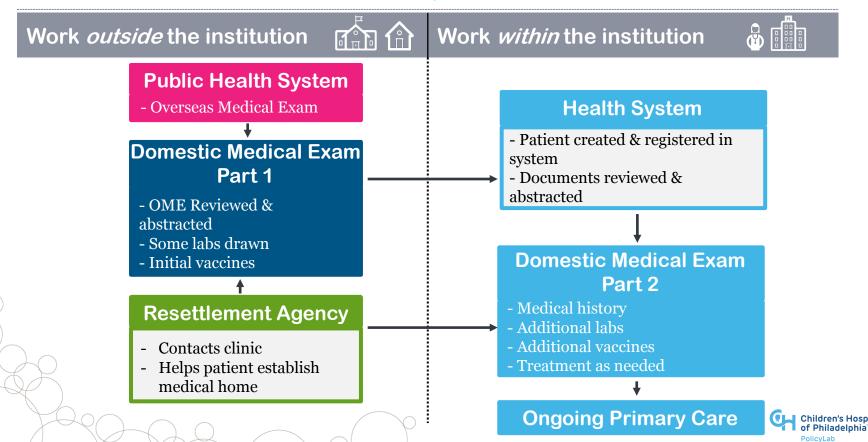


MODELS OF CARE FOR THE DME: (1) SCREEN, REFER & FOLLOW UP



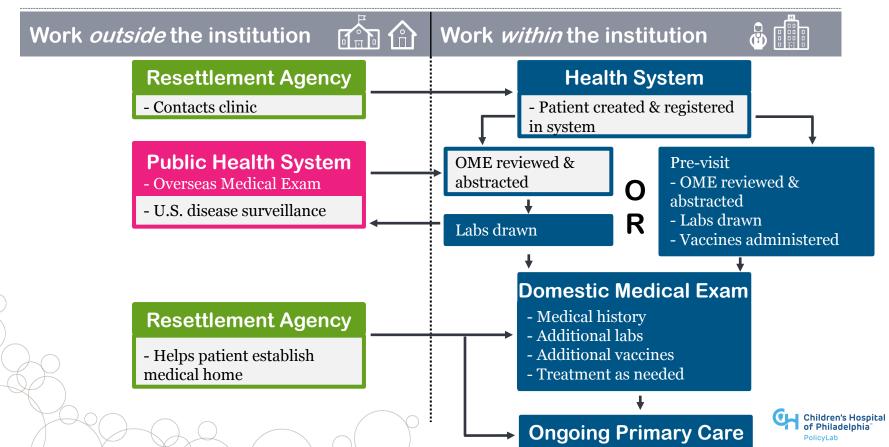
MODELS OF CARE FOR THE DME: 2) TWO SITE MODEL

25



MODELS OF CARE FOR THE DME: 3) SINGLE SITE MODEL

26





CHALLENGES:

- DME guidelines address multiple nationalities, age groups, and genders
- Screening (DME) sites are widely dispersed
- Fund of knowledge different from "routine" health care
- Depends upon information transmitted from overseas

MAKING SURE WE GET IT RIGHT

- Prevent adverse outcomes and health disparities for patients, e.g., liver disease caused by hepatitis B $^{\mbox{\tiny 1-2}}$
- Strengthen screening & treatment for conditions of (personal and) public health importance ³
- Provide more effective patient care by enhancing surveillance for emerging issues,
 e.g., population-specific risk factors for lead poisoning ⁴



¹ Kim et al. "Racial/ethnic disparities in the prevalence and awareness of Hepatitis B virus infection and immunity in the United States." Journal of viral hepatitis (2017).

Mitruka et al. "Evaluation of Hepatitis B Virus Screening, Vaccination, and Linkage to Care Among Newly Arrived Refugees in Four States, 2009–2011." Journal of immigrant and minority health (2018): 1-8.

³ Subedi et al. "Evaluation of latent tuberculous infection and treatment completion for refugees in Philadelphia, PA, 2010–2012." The International Journal of Fuberculosis and Lung Disease 19.5 (2015): 565-569.

⁴Munene, Esther, "Beautifully toxic: The effects of a burmese cosmetic practice." American journal of public health 103.1 (2013): 66.



DEVELOPING CLINICAL DECISION SUPPORT (CDS) FOR THE DME

Develop tools to encourage <u>evidence-based</u>, <u>guideline-directed</u> standardized care <u>across</u> <u>institutions</u> for newly arriving refugee patients while providing <u>flexibility for local</u> workflows & local resources

2016: Survey of refugee health professionals (N=414)

- 40 states
- 316 clinicians & 98 public health professionals
- 182 Epic users

2016-present: Clinical Decision Support Workgroup

- 21+ contributors
- 13+ institutions

Workgroup Consultation & Guideline Review



Pilot at Build Site (CHOP)

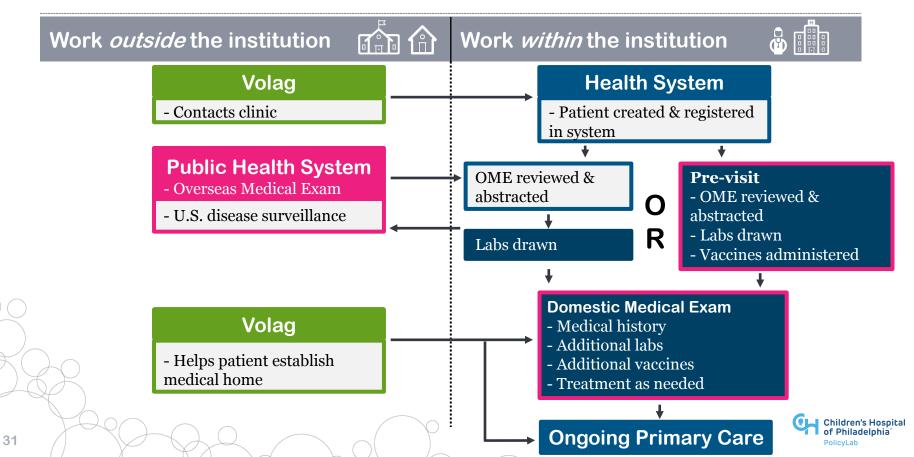


Pilot at External Site (MN HealthPartners)

Adam Palmer, Andrea Evans, Andrea Green, Ann Settgast, Betty Housey, Carolyn McCarthy, Dawn Davis, Dipti Shah, Eliza Priest, Elizabeth Dawson-Hahn, Emily Esmaili, Emily Jentes, Fabiana Kotovicz, Ingrid Attleson, Jennifer Cochran, Joannah Lynch, Joel Davidson, Joshua Boortz, Kailey Urban, Karman Ott, Ker Vue, Larisa Turin, Laura Smock, Margaret Fitzthum, Marisa Ramos, Mary Fabio, Meera Siddharth, Melissa Moore, Mikhail Perelman, Molly Drake, Patricia Walker, Robert Carlson, Sarah Kimball, Seth Clark, Shary Vang, Shayla Holcomb, Suzinne Pak-Gorstein, Thomas Herchline, Timothy Childers, Tobey Audcent, Ann Linde, Blain Mamo, Clara Warden, Evan Orenstein, Jeremy Michel, Kate Yun, Morgan Mirth, Mike Westerhaus
Additional thanks: Camille Brown, Janine Young, Daniel Vostrejs, Julie Linton



CLINICAL DECISION SUPPORT FOR THE DME







EXAMPLE 2:

Chandra is a 28-year-old refugee from Bhutan who has been living in Nepal. She arrived in the U.S. two weeks ago. She had her Pre-Visit and is now ready for the rest of her DME.



DISSEMINATION TO OTHER INSTITUTIONS (COMING SOON)

Epic community library

https://userweb.epic.com/

Build Guide

- Draft form
- Intended for an Epic analyst team
- Flags "customization" points
- Adaptable for other EHRs

Documentation
Overview:
Section Comments:
Refugee DME SmartText <2yo (ETX):
Refugee DME SmartText 2yo through 5yo (ETX):
Refugee DME SmartText 6yo through 11yo (ETX):
Refugee DME SmartText 12yo through 15yo Female (ETX):
Refugee DME SmartText 12yo through 15yo Male (ETX):
Refugee DME SmartText 16yo through 20yo Female (ETX):
Refugee DME SmartText 16yo through 20yo Male (ETX):
Refugee DME SmartText ≥21yo and Female (ETX)
Refugee DME SmartText ≥21yo and Male (ETX):
SmartLists for DME Documentation:
SmartLinks for DME Documentation:
Hyperlinks for DME Documentation:



SUMMARY

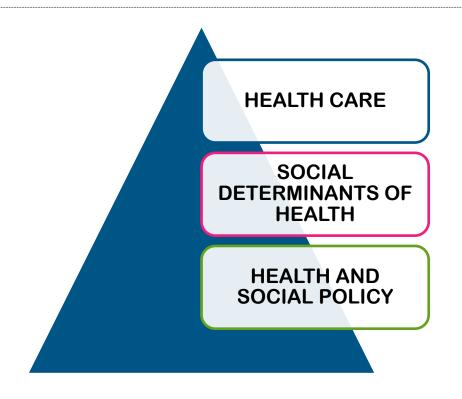
- Refugee health care exists across a continuum that begins overseas
- Health care requires cross-sector collaboration and integration of overseas health information

• Sharing resources and tools for the DME should improve both patient care and public health





HEALTH CARE ALONE IS NOT ENOUGH TO IMPROVE HEALTH



North American Refugee Health Conference, June 7-9, Portland, Oregon



RESOURCES

CDC Immigrant and Refugee Health https://www.cdc.gov/immigrantrefugeehealth/index.html

MN Refugee Health http://www.health.state.mn.us/refugee/

Office of Refugee Resettlement https://www.acf.hhs.gov/orr/refugees

Association of Refugee Health Coordinators https://refugeehealthcoordinators.wordpress.com

Ethnomed https://ethnomed.org/

Refugee Health Technical Assistance Center http://refugeehealthta.org/

<u>CMAJ Evidence-based clinical guidelines for immigrant and refugees</u>

Society of Refugee Healthcare Providers http://nasrhp.org/

AAP Immigrant Child Health Toolkit

Caring for Kids New to Canada https://www.kidsnewtocanada.ca/

American Society of Tropical Medicine & Hygiene http://www.astmh.org/

UNHCR Global Trends http://www.unhcr.org/globaltrends2016/

Refugee Processing Center http://www.wrapsnet.org/



ACKNOWLEDGEMENTS

Workgroup Contributors: Adam Palmer, Andrea Evans, Andrea Green, Ann Settgast, Betty Housey, Carolyn McCarthy, Dawn Davis, Dipti Shah, Eliza Priest, Elizabeth Dawson-Hahn, Emily Esmaili, Emily Jentes, Fabiana Kotovicz, Ingrid Attleson, Jennifer Cochran, Joannah Lynch, Joel Davidson, Joshua Boortz, Kailey Urban, Karman Ott, Ker Vue, Larisa Turin, Laura Smock, Margaret Fitzthum, Marisa Ramos, Mary Fabio, Meera Siddharth, Melissa Moore, Mikhail Perelman, Molly Drake, Patricia Walker, Robert Carlson, Sarah Kimball, Seth Clark, Shary Vang, Shayla Holcomb, Suzinne Pak-Gorstein, Thomas Herchline, Timothy Childers, Tobey Audcent

CDS Development Team: Ann Linde, Blain Mamo, Clara Warden, Evan Orenstein (clinical informatics fellow), Jeremy Michel (clinical informatics supervisor), Kate Yun (PA site lead), Morgan Mirth, Mike Westerhaus (MN site lead)

Additional Thanks: Camille Brown, Julie Linton, Janine Young, Daniel Vostrejs, Christina Phares, Emily Jentes

CDS development was supported by the Centers for Excellence in Refugee Health cooperative agreement 5 NU50CK000459 from the U.S. Centers for Disease Control and Prevention.





QUESTIONS AND COMMENTS?





Children's Hospital of Philadelphia 2716 South Street Roberts Center, 10th Floor Philadelphia, PA 19146 YunK@email.chop.edu
Blain.Mamo@state.mn.us
policylab.chop.edu



Sign Up: http://bit.ly/PolicyLab_Newsletter

