

Sustainable Development Goals, Universal Health Coverage and the Disabled Child

Liesbeth Siderius, at ICORD, Jerusalem, November 13, 2019

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Rare is Common Just normal People



22qdeletion

The Family





Skeletal Dysplasia

At work

IC , Jerusalen November 1917 9



Fibrodysplasia Ossificans Propressiva

> Studiy Animal Science



ICORD, Jerusalem, November 13th 2019



Introduction

 Sustainable Development Goals, United Nations 2015

Rare is common, in pediatrics

 Universal Health Coverage, United Nations, 2019

Pediatric Support

Disabled child

Early recognition

Digital Health for all

Interoperability





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Rare common in pediatrics

> 50 % manifests in childhood Health and well being for all

< 5 year 2-3 % have a rare disease Early recognition

chronic and life-threatening

Reduce inequalities

80% of genetic origin

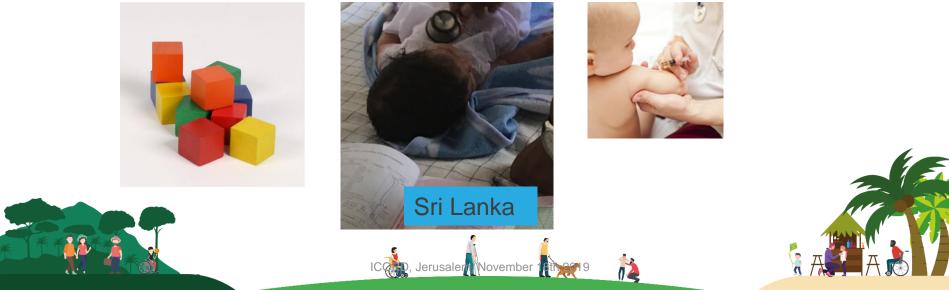




NGOCommitteeRareDiseases.org The United Nations emphasizes the need to:

- end preventable deaths of new-borns and children under five
- end avoidable mortality caused by non-communicable diseases
- achieve universal health coverage

World Wide children are measured, developmental screened, and vaccinated



At least half of the world's people do not have access to essential health services. **UHC ensures that** NO ONE IS LEFT BEHIND 12.12.18 UHC **Quality Information** Accessible Training Data exchange **Diagnostics Primary Care** ICORD, Jerusalem, November 13th 2019



Home-based records

Early recognition



World Health Organization

Jerusalen November

Stages of Growth (Development Milestones)

it is important to follow your child's growth. There are a few signs that can help It is informed and development of your child from birth to 5 years.

Look out for these signs

A child might have a problem in these areas when the child shows any of the following behavious/signs.

Hearing - if the child:

- Does not turn towards the source of new sounds or voices
- Has frequent ear infection, (discharge from . ear, earache)
- Does not response when you call unless he/ she can see you
- Does not talk or talks strangely. .

Seeing - if the child:

- Has red or discharging eyes .
- Has a cloudy appearance of the eyes
- Frequently rubs eyes and say they hurt
- Often bumps into thins while moving around
- Hold head in an awkward position when . trying to look at something
- Has eyes which sometimes or always . look in different directions (squints)
- Has a white spot in the eye. .



Ghana

Coordinated Care

- -developmental delay
- -early loss of teeth
- Exome screening, genes related to developmental delay

Coffin Lowry Syndrome

- -progressive kyphosis/scoliosis
- -sensorineural hearing defect
- -cardiac evaluation
- -sudden loss of muscle tone induced by unexpected tactile or auditory stimuli and epilepsy.

November





What EU citizens expect...

To access their own health data (requiring interoperable and quality health data)

80% agree

80%

agree

90%

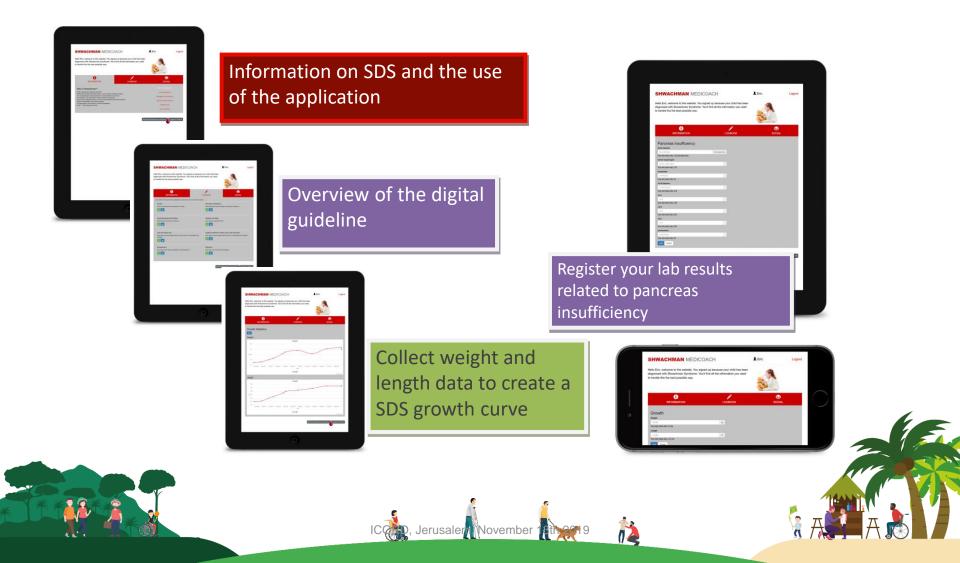
agree

To share their health data (if privacy and security are ensured)

To provide feedback on quality of treatments EUROPE twitter



Co-management for people with Shwachman Diamond Syndrome



Codification	Meaning				
ICD & Orpha code	International Code of Diseases / Orphanet code				
ICF (-CY)	The International Classification of Functioning, Disability and Health for Children and Youth (ICF-CY) is a derived version of the International Classification of Functioning, Disability and Health (ICF, WHO, 2001) designed to record characteristics of the developing child and the influence of environments surrounding the child .				
LOINC	A universal code system for tests, measurements, and observations.	Organization			
ATC	The purpose of the ATC/DDD system is to serve as a tool for drug utilization research in order to improve quality of drug use.				
ISO 9999	ISO 9999:2011 establishes a classification of assistive products, especially produced or generally available, for persons with disability.				
НРО	The Human Phenotype Ontology (HPO) provides a standardized vocabulary of phenotypic abnormalities encountered in human disease.				
	IC , Jerusaler November 19	R			

Patient Informatiom	tient Informatiom Primary Care		Diagnosis Collaborative care		Social Services			
www.shwachman.nl Growth retardat			Guideline SDS		Recurrent illness			
https://rarecare.world	https://rarecare.world (LOINC)		(Orphanetcod SNOMED, ATC		Fatigue, Short (ICF-CY; ISO 9999)			
Stichting Shwachman syndroom	lland	P	iagnosis	ICD - 10				
New Diagnostics			er syndrome	Orphacode				
N ⁴	HPO		henne MD, FOP	OM	IIM			
	LOINC	Shwachman	Diamond Syndrome		OMED -CT			
ICPC					DCOM			
	Sign primary care			Guide	line			
	Heelstick screening			Collaborativ	ve Health			
	Hearing screening			Car	e			
	rowth; Development		32					
Interoperable data		57.		ATC				
model	ISO 3166-1			ICF	New Therapeutics			
			N					
** 🐢 🛟 🦦	Regist			ISO999	99			
	Data collecti	1.2	G	uideline	🐷 📰 🗟 🐷 📷			
	systematically	organised		services and	🖼 🔀 🛐 👬 🗱 👘			
	computer pro		reh	abilitation				
					©SDSS Holland			

LOINC

The international standard for identifying health measurements, observations, and documents.

Interoperable codes in care



Building the Rare Disease

knowledge and information ecosystem

Thalassemia

SEARCH

Find and share knowledge about

Rare diseases all over the world

ATC

- L01XX05 Hydroxycarbamide (Hydroxyurea) (1)
- V03AC01 Deferoxamine (1)
- V03AC02 Deferipron (1)
- V03AC03 Deferasirox (1)

ICD

D57 Sickle-cell disorders (1)

ICPC Reference

- B78.01 Thalassemia (1)
- B87 Splenomegaly (1)

LOINC

- 718-7 Hemoglobin in blood (1)
- · 20567-4 Ferritin in Serum or Plasma (1)
- 46740-7 Hemoglobin disorders newborn screen interpretation (1)
- 53857-9 Hemoglobin F (1)

fractures or vertebral deformities. Thalassemia major or Beta Thalassemia Rare Condition Thalassemia major or Beta Thalassemia

Large spleen

Feature



rarecare.world

... costal margin. A large spleen is a feature of for example Thalassemia Infections Nieman Pick disease Gaucher disease Splenomegaly Splenomegaly in thalassemia Thalassemia major or Beta Thalassemia ... Rare Condition Thalassemia major or Beta Thalassemia

Symptom Splenomegaly in thalassemia

Abnormality

Splenomegaly

Carrier screening thalassemia

Symptom

... Carrier screening thalassemia Related family members with elevated HbA2 In carrier screening for the classical beta-thalassemia trait, the hallmark is the presence of an ... 2 (a 2 5 2). Another way of identifying people with thalassemia major is neonatal screening. Neonatal screening ...

Rare Condition

Thalassemia major or Beta Thalassemia Thalassemia major or Beta Thalassemia

Disease

Fibula Hypoplasia – ICF International Classification, Functioning, Disability and Health

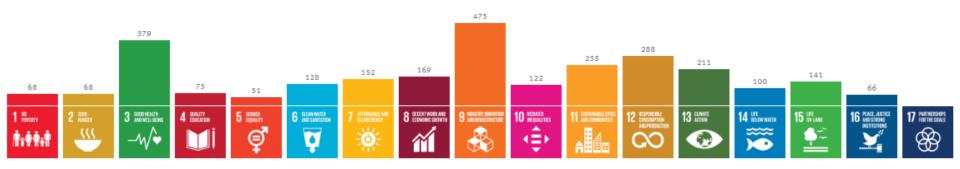
		First Feature	World Health Organization
Inter Late Head	al condiție al condiție Trbial luberosity Dulă al malieolus el malieolus	Diagnosis Fibula Hypoplasia	
		Medical Guideline	
		ICF : Body Functions & Structures 3 GOOD HEALTH	NG 10 REDUCED INEQUALITIES
		ICF: Activity Participation ICS>11>11.180>11.180.01 ISO 99999:2016 Assistive products for persons with disability – Classification and terminology	
		IC , Jerusaler November 19	AAAA

ISO= International Standards globally recognized guidelines and frameworks

ISO	Standards	All about ISO	Taking part	Store	Q	EN ~

IMPACT AT A GLANCE

ISO contributes to all of the SDGs. Here you can see the number of ISO standards that are directly applicable to each Goal.











Building the Rare Disease

knowledge and information ecosystem

Home / Rare condition / থ্যালাসেমিয়া প্রধান বা বিটা থ্যালাসেমিয়া

থ্যালাসেমিয়া প্রধান বা বিটা থ্যালাসেমিয়া

থ্যালাসেমিয়া জেনেটিকালি (উন্তরাধিকারসূত্রে) রক্তের রোগের একটি গৃরুপ যা সাধারণ এক বৈশিষ্ট্যতে ভাগ করে; হিমোগ্লোবিনের ত্রুটিপূর্ণ উত্পাদন যা প্রোটিন যা লাল রক্ত কোষগুলিকে বহন ও অক্সিজেন সরবরাহ করতে সক্ষম করে। ত্রুটিপূর্ণ হিমোগ্লোবিন সংশ্লেষণের বিভিন্ন পদ্ধতি রয়েছে এবং অতএব, বহু ধরনের থ্যালাসেমিয়া রয়েছে।

বিটা খ্যালাসেমিয়া হিমোগ্লোবিনের বিটা প্রবিন শুঙ্খলার অনুপস্থিতি বা হ্রাস সংশ্লেষণের কারণে ঘটে। বিটা খ্যালাসেমিয়া বৈশিষ্ট্য বা বিটা খ্যালাসেমিয়া নাবিক ব্যক্তিরা বিটা খ্যালাসেমিয়া বা বিটা-খ্যালাসেমিয়ার একজন ক্যারিয়ারের হেটারজাইজাস। বিটা খ্যালাসেমিয়া মেজারের ব্যাক্তি হ'ল বিটা খ্যালাসেমিয়ার জন্য হোমজাইজাস এবং এভাবে ত্রুটিপূর্ণ জিনের দুটি কপি রয়েছে এবং এই রোগটি বিকাশ করে: খ্যালাসেমিয়া প্রধান। জিনের সম্পূর্ণ জনুপস্থিতিটি β0 খ্যালাসেমিয়া হিসাবে বর্ণনা করা হয় এবং β + হিসাবে সংশ্লেষকে হ্রাস করা হয়। বিটা-গ্লোবিনের হ্রাস α গ্লবিন চেইনগুলিতে আপেক্ষিক অতিরিক্ত বাড়ায়।

OMIM

613985 BETA-THALASSEMIA

ORPHA

ORPHA:231214 Beta-thalassemia major









Thank

 European Pediatric Rare Disease Network John Dodge, U.K.
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- Consensus in Pediatrics and Child Health Manual Katz, Israel
- Forum Rare Diseases, Sri Lankan Pediatric Society

Support Holland



- Anjan Bhattacharya, India
 - People with a rare condition and their families

Stichting Shwachman syndroom



Imagine... all just ordinary people, sharing all the world







Goldenhar syndrome

Complex Chromosome abn

Thalassemia

Speaker at Digital Health Congress



Mother

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, Jerusalen November 18th 29

Patient Advocate

