



Monitoring child development – principles, approaches and tools

*Sharing experiences from Scotland,
Portugal, Azerbaijan and Slovakia*

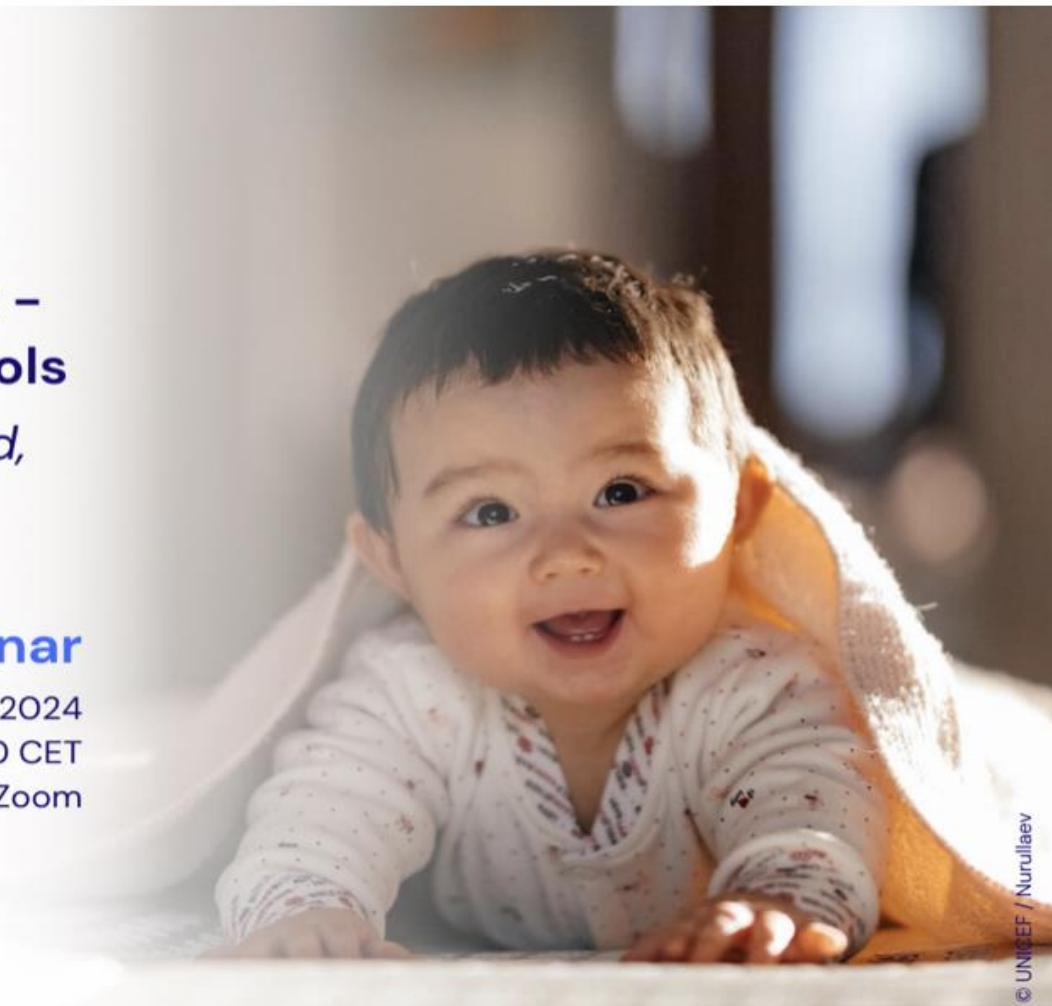
Webinar

6 February 2024
10:00 – 11:30 CET
Online – Zoom



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Monitoring child development in SR



❖ Developmental assessment - legal requirement as part of 10 regular well-child visits in early childhood in primary care

➤ Appendix No. 2 to Act No. 577/2004 Coll.

❖ Clinical Practice Guideline (MoH SR) on developmental assessments in primary healthcare

➤ Policy Statement No.: 0023, Published Date: 1.1.2019

➤ Policy Statement I.rev. No.: 0023R1, Published Date :1. 7. 2021

➤ Available online: https://www.health.gov.sk/Zdroje?/Sources/dokumenty/SDTP/standardy/30-6-2021/12/12_1_psychomot_vyvin-deti-pri-2_11_prev_prehliadke-v-prim_starostlivosti_1_rev.pdf

- Standardized parents completed questionnaires
- Basic rules for management of the prevention of developmental difficulties

Developmental monitoring and screening tool

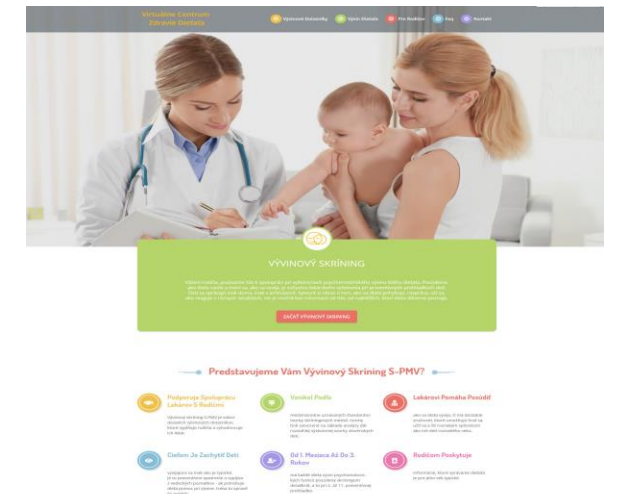
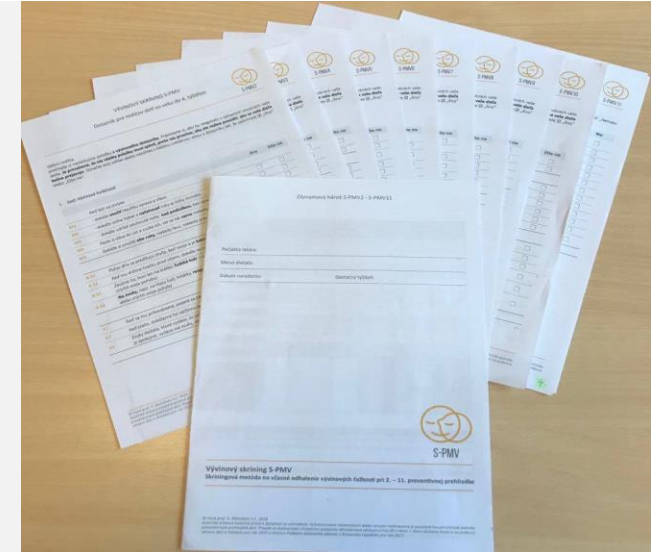
„Celebrating milestones, sharing concerns“

S-PMV

- Universal standardized method for the 2nd - 11th check-ups in primary care, with norms and documentation
 - Codes for report Developmental Assessment, according to the Annex to Government Regulation No. 776/2004 Coll. CATALOGUE OF HEALTHCARE PERFORMANCES
- A set of 10 short, age-specific questionnaires and a record sheet
 - for the asymptomatic population of children aged 0-3 years
- Papier and online version
- Psychometric features were approved

- Administration manual available on web page MoH SR:

https://www.health.gov.sk/Zdroje?/Sources/dokumenty/SDTP/standardy/30-6-2021/12/Priloha-1_Priucka-Administracia-S-PMV_rev_1.pdf



S-PMV: Questionnaire for parents – examples

Part I: Development Functionality

			Yes	Not yet
M1	He can walk independently and hold a toy in both hands, e.g. the ball.		<input checked="" type="radio"/>	<input type="radio"/>
M2	He can climb on the bed, on the chair.		<input checked="" type="radio"/>	<input type="radio"/>
AS1	He can build at least 3 cubes on top of himself (building a chimney).		<input checked="" type="radio"/>	<input type="radio"/>
AS2				
AS3				
AS4				

VÝVINOVÝ SKRÍNING S-PMV
Dotazník pre rodičov detí vo veku 7. - 8. mesiacov

S-PMV7

Vážení rodičia, prečítajte si nasledujúce položky z **vývinového dotazníka**. Predstavte si, ako by reagovalo v opísaných situáciách vaše dieťa. **Je prirodzené, že nie všetky položky musí splniť, preto vás prosíme, aby ste reálne posúdili, ako sa vaše dieťa bežne prejavuje.** Označte svoj súhlas alebo nesúhlas s každou uvedenou vetou v dotazníku tak, že zaškrtnete „Áno“ alebo „Ešte nie“.

I. časť: Vývinová funkčnosť

		Áno	Ešte nie
M1	Keď leží na chrbte, často mení svoje polohy – na chrbte už netrávi veľa času.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Keď leží na brušku:		
M2	- vystiera ruky, nohy – robí „lietadielko“.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
M3	- snaží sa uchopiť hračku visiacu pred ním tak, že sa oprie o jednu ruku a druhú zdvihne.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
M4	Dokáže stabilne sedieť, načiahnuť sa za hračkou, pričom nespadne .	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>

Domains:

- developmental milestones, specific behavior, parents' concerns

Items: emphasizing parent-child interactions and facilitating communication: parent-pediatrician

Validity and reliability :

- Discriminating abilities of items- high % fulfillment + clinical experience + correlation analysis
- Based on statistical analyzes – S-PMV11: good internal consistency of items, reliability ($\alpha=.780$) and selected aspects of validity (content of items, correlation with long scale $r=.857$)
- Construct validity is verified (item response theory)

S-PMV: Recording sheet for pediatrician

VÝVINOVÝ SKRÍNING S-PMV

Záznamový hárok S-PMV2-11



Z.PP	Dátum	Fyzický/ Korig. vek*	Motorika Splnené položky				Adaptívne správanie Splnené položky				Komunikácia Splnené položky				Vývin. skóre Body	Vývinové skóre Písmo												Špecifické správanie Áno, prejavuje sa takto často					Špecifické správanie Body		Špecifické správanie Písmo		Obavy Áno	Obavy Body	Obavy Písmo
2. do 4 t.			M1	M2	M3	M4	AS1	AS2	AS3	AS4	K1	K2	K3		12	2.PP												Z1	Z2	Z3	Z4	Z5			01				
			M5													1	2	3	4	5	6	7	8	9	10	11	12												
3. 5-7 t.			M1	M2	M3	M4	AS1	AS2	AS3	AS4	K1	K2	K3	K4	11	3.PP												Z1	Z2	Z3	Z4	Z5			01				
			M5													1	2	3	4	5	6	7	8	9	10	11	12												
4. 8-10 t.			M1	M2	M3	M4	AS1	AS2	AS3	AS4	K1	K2	K3	K4	12	4.PP												Z1	Z2	Z3	Z4	Z5			01				
							AS5				K5					1	2	3	4	5	6	7	8	9	10	11	12												
5. 3-4 m.			M1	M2	M3	M4	AS1	AS2	AS3		K1	K2	K3		10	5.PP												Z1	Z2	Z3	Z4	Z5			01				
			M5	M6	M7											1	2	3	4	5	6	7	8	9	10	11	12	13											
6. 5-6 m.			M1	M2	M3	M4	AS1	AS2	AS3		K1	K2			11	6.PP												Z1	Z2	Z3	Z4	Z5							

Záznamový hárok k S-PMV11
Riziká vývinových ťažkostí



idukcia keď - orenie	Sebaobsluha	Behaviorálne riziká v oblasti regulácie emocí a správania	Senzorické a iné riziká
H1	So1		
H2	So2		
H3	So3		
	Z1		
		Internal. riziká	External. riziká
		Nie	Áno
			Áno Nie
			Nie Áno
			Áno Nie
			Nie Áno
			Áno Nie
			Nie Áno
			Áno Nie
			Nie Áno
			Áno Nie
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			Nie Áno
			Áno Nie
			Nie Áno
			Áno Nie
			Nie Áno
			Áno Nie

- Answer Profile - Weaknesses and Strengths
 - evaluating developmental functioning at the level of functional areas
- Score value and criterion evaluation:
 - cut-off values for each check-up set for the 10th and 25th percentiles
 - results of monitoring and screening do not imply a diagnosis, the score and cut-off allow the comparison of parents' answers with the population norm
- Answer Profile over time of functional areas and score
 - monitoring the course of developmental changes at the level of functional domains and score
- Purpose: To improve the clinical judgment and decision-making of the primary pediatrician regarding the level of care required to support the optimal development of children 0– 3 y.

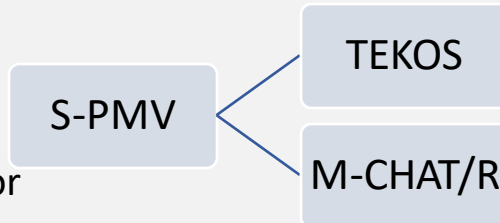
Virtual Centre: The health of the child

www.zdraviedietata.sk



- E-questionnaires: completed by parents and sent to pediatricians

- Corrected age calculator
- Consent for the processing of personal data
- List of registered pediatricians
- Database of completed questionnaires



- Administration manual available on web page MoH SR:

https://www.health.gov.sk/Zdroje?/Sources/dokumenty/SDTP/standardy/30-6-2021/12/Priloha-1_Prirucka-Administracia-S-PMV_rev_1.pdf

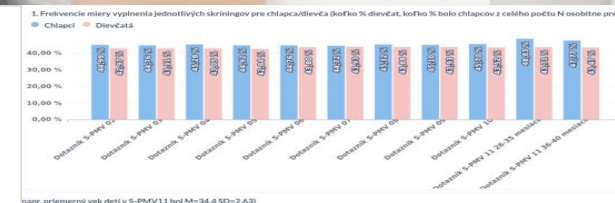
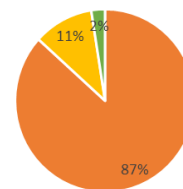
- Information for parents
 - developmental functioning
 - promotion of nurturing care
- Publicly accessible, without parental registration

- Pilot (UNICEF): new questionnaire for referral
 - ICF code set for parents

S-PMV results \neq outcomes



Percentage representation of the criterion evaluation score of all S-PMV (2021) in developmental functionality (N=64028)



Database: the number of completed

e-questionnaires:

- 2019: 12 442
- 2020: 43 519
- 2021: 64 028
- 2022: 64 718
- 2023: 65 189

year	No. of children born	S-PMV 2 (up to 4 weeks)	
		Number	%
2019	57 087	1519	2,66%
2020	56 550	4 496	7,95%
2021	56 872	6 544	11,5%
2022	52 668	6442	12,2%

Total (31.12.2023).....**248 876**

28,9% of all primary care providers

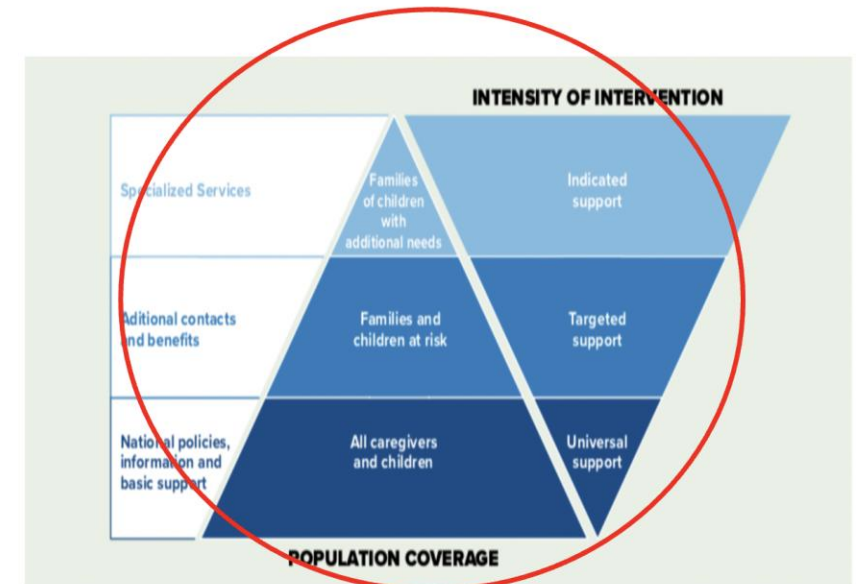
Monitoring child development in primary care



„Supporting all children to reach the most vulnerable“

Integral part of inclusive multi-resort system of Early childhood developmental care for all children

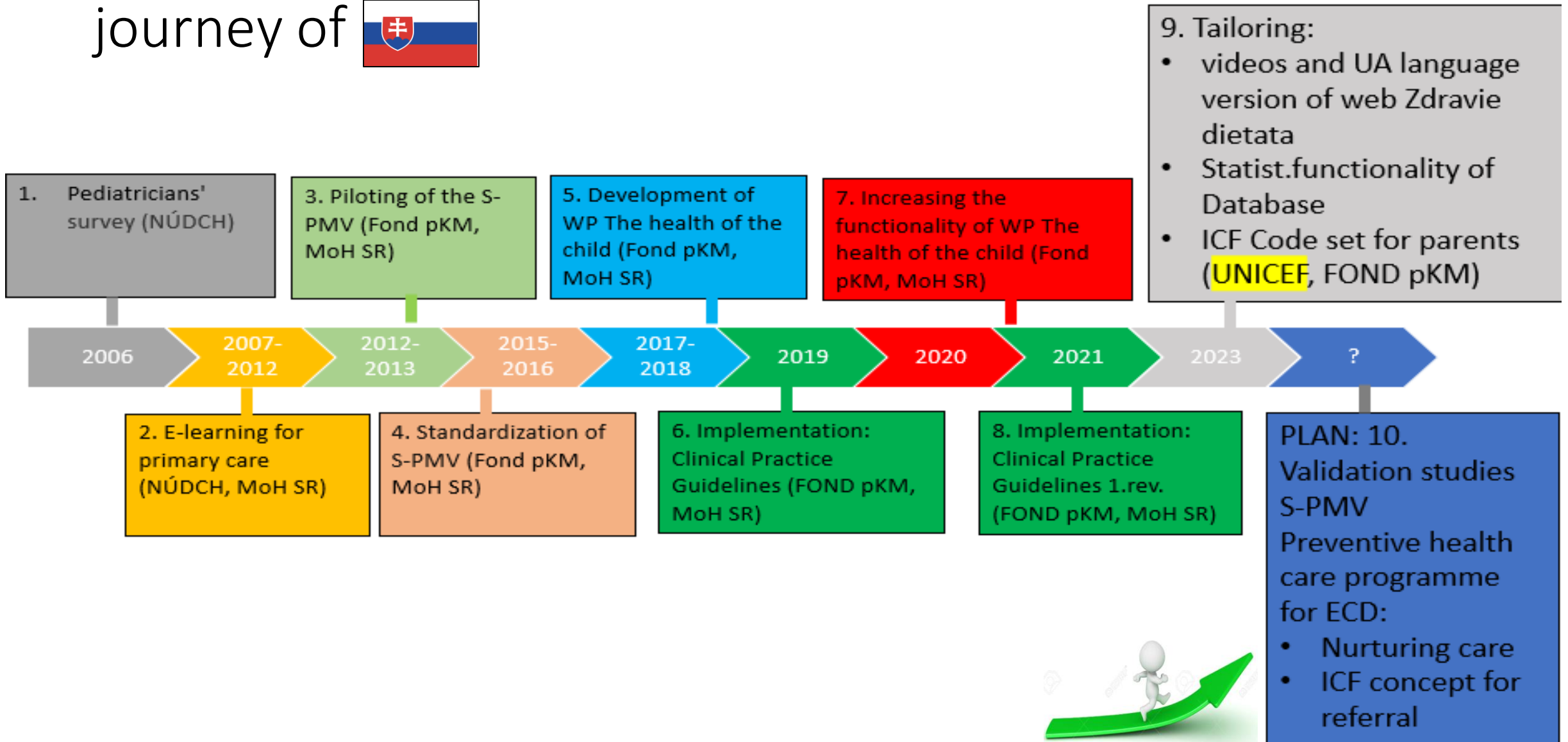
➤ „The journey of a child towards realizing their full potential“: The Ministry of Labour, Social Affairs and Family of the SR, 2023



Kerry McCuaig, Atkinson Centre/University of Toronto: [ps_commission_backgrounder_r_-_nov._26-12.pdf\(utoronto.ca\)](#)

World Health Organization, United Nations Children's Fund, World Bank Group. Nurturing care for early childhood development: a framework for helping children survive and thrive to transform health and human potential. Geneva: World Health Organization; 2018.

Development of the tools for developmental assessment in primary care – the journey of



Thank you for your attention

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