

Spoločenský dosah 1

Krok 1: Impact case study form

Please read the information regarding the case study form on societal impact.

- The Impact case study form consists of two sections. In Section A, provide basic information about the applicant, the unit of assessment, the title of the case study, the period when the research on which the case study is based was conducted, and information about the submitting institution's staff who are (or have been) involved in the research. The information regarding the underpinning research does not need to be linked to current staff, nor does it need to be linked to the evaluation period (2020-2024) or to the outputs submitted in the previous section.
- Section B has 5 main parts:
- Brief summary of the impact (max. 100 words): briefly state the specific societal impact described in the case study;
- The research on which the impact is based (max. 500 words): provide the key research findings or insights that underpin the societal impact and details of what research has been conducted, when and by whom;
- References to the research (max. 6 references): provide references to the key outputs from the research described in the previous section;
- Details of the societal impact (max 750 words): using supporting evidence, explain how the research has clearly supported or substantially contributed to the declared societal impact, and also the nature and extent of the societal impact, including a description of the societal impact on specific institutions or target groups, including a description of the evidence to support the societal impact;
- Up-to-date contacts to sources supporting the societal impact (max. ten references): provide contacts of those external sources (i.e. sources outside the submitting institution) that have supported the specific claims made in the case study.
- The last part of the form is 'other contextual data', which applicants may fill in if relevant in the context of the application (this information is supplementary and optional; it is not included in the limit of five pages).

Krok 2: Impact case study form - Section A

The fields in this section are compulsory.

Oblasť hodnotenia:

Sociálna práca

Inštitúcia:

Trnavská univerzita v Trnave

Title of case study*

Rapid Test for the Diagnosis of CAN Syndrome

Type of the impact*

Health

Time period when the underpinning research was conducted*

from 2017

Period when the declared impact occurred*

from 2021 till present

Details about the personnel conducting the underpinning research from the submitting unit:

Zamestnanec č. 1

Name/Names*

Prof. PhDr. Eva Mydlíková, PhD.,

Roles (e.g. work position)*

Head Researcher

Period of employment at the submitting institution*

From 2015 to present

Zamestnanec č. 2

Name/Names*

Mgr. Peter Patyi, PhD.,

Roles (e.g. work position)*

Co-Researcher and Deputy Researcher

Period of employment at the submitting institution*

From 2014 to present

Zamestnanec č. 3

Name/Names*

Mgr. Ľubica Nicolussi, PhD.,

Roles (e.g. work position)*

Co-Researcher/Full-time PhD student

Period of employment at the submitting institution*

Full-time PhD student, Research Assistant from 2020 to May 2024, on maternity leave

Zamestnanec č. 4

Name/Names*

PhDr. Denisa Vargová, PhD.

Roles (e.g. work position)*

Co-Researcher/Part-time PhD student

Period of employment at the submitting institution*

Part-time PhD student from 2016 to 2020

Details about the personnel from the submitting institution who have contributed to the impact:

Zamestnanec č. 1

Name/Names*

Roles (e.g. work position)*

Period of employment at the submitting institution*

Zamestnanec č. 2

Name/Names*

Roles (e.g. work position)*

Period of employment at the submitting institution*

Zamestnanec č. 3

Name/Names*

Roles (e.g. work position)*

Period of employment at the submitting institution*

Krok 3: Brief summary of the impact

Please fill in a brief summary of societal impact.

Brief summary of the impact (max. 100 words)

This section briefly outlines the specific societal impact described in the case study.

We have developed new diagnostic method for children's social and legal protection workers (CSLP), which aims to improve quality of life of children at risk of Child Abuse and Neglect Syndrome (syCAN). Thanks to rapid diagnosis, CSLP workers can identify level of risk for children in their families and specify further professional intervention more effectively. Our ambition was to teach CSLP workers not only to work with crisis intervention but also to act mainly preventively and better ensure the healthy physical, psychological and social development of children without devastating effects. Another benefit is improvement of professional competences of CSLP workers.

Krok 4: Research on which the impact is based

Please provide information about the research from which the societal impact is derived.

2. Research on which the impact is based (max. 500 words)

This part includes the key research findings or insights that underpin the societal impact and details what research has been undertaken, when and by whom. These research details do not need to be linked to current staff, nor do they need to be linked to the assessment period (2020-2024) or to the outputs presented in the previous section. This research may be a body of work developed over a number of years or may be the output of a specific project. Provide references to the specific research outputs that constitute the research described in this section in the next part (part B3).

Provide details of the following data in this part:

- The nature of the research knowledge or findings that relate to the societal impact declared in the case study.
- An outline of the research results (this may refer to one or more research outputs, projects or programmes).
- Any relevant key information about this research.

The development of syCAN diagnostic tool has been the focus of the research team of department's staff and Ph.D. students since 2016 [3.9]. The choice of theoretical concept of *integrated approach* (Bentowim, Gjurič, Pothe, Fuchs, Bronfenbrenner, Blumenthal and others) was result of an extensive analysis of research literature to analyse theories of the origins of violence. Integrated approach identifies causes in interconnection of ontogenetic factors, micro-meso-macrosystem factors [3.1] and [3.2], which is a particularly suitable model in social work, as it equally respects psychosocial characteristics and external environment of both the victim and the perpetrator. Thus, this approach created skeleton of our diagnostic tool, which is always composed of: (a) the manifestations and symptoms of syCAN and (b) environmental risk factors [3.3].

In addition to studying theories of emergence of violent behaviour in the individual, we also analysed the research literature to develop a list of individual symptoms of syCAN according to chosen structure of manifestations and risk factors.

Using outputs of focus groups composed of top experts working in pediatrics, psychology, and social work, we compiled thematic clusters of future questionnaire items according to the syCAN form, namely the following 4: physical abuse, psychological abuse, sexual abuse, and neglect. Thus, we created 4 separate subtests and had the children tested by selected experts.

After completed tests were returned, based on experts' crucial comments, we (1) modified test items stylistically and in terms of content, (2) reshuffled them to create 1 comprehensive test, and (3) created 4 age categories for the test.

After an extensive field test (about 200 children registered as being at risk of syCAN at the CSLP departments of the Labour Office), we conducted a factor analysis, tested reliability and validity of the test, and reduced the original 4 subtests to 3 subtests according to the age of the child (we excluded the category of children aged 0-2 years) [3.4].

With the help of CSLP staff, we tested over 300 children again using definitive formal version of test and standardised results based on the test results. Standardisation process took into account the requirements of CSLP practice. Although the test result involves a rougher estimate, it respects requirement of the Labour Office and assesses the level of risk for children in all 4 forms (physical abuse, psychological abuse, sexual abuse and neglect) in 3 ranges: mild, moderate and high risk [3.10].

The added value of the research was: (1) confronting the level of ability of CSLP workers to detect the syndrome symptoms using the test results, and (2) a crude screening of the occurrence of syCAN in the regions of Slovakia (crude because the CSLP workers were not thorough in sending completed tests). We submitted the report to the management of the Labour Office with recommendations to increase the competencies of workers. We are currently refining the results and creating finer standards based on the data obtained through licensing agreements, having provided a Czech language version of the test to the Czech partners in an ongoing project [3.10].

Krok 5: References to the research

Please provide up to six references to research from which the societal impact is derived.

3. References to the research (max. 6 references)

In this part, provide references to key outputs from the research described in the previous part. All forms of outputs will be considered equally (no one type of output will be given priority over another). These references will be assessed solely with regard to societal impact.

For each output cited, provide the following details:

- author(s)
- title
- year of publication
- type of output and other relevant data needed to identify the output (e.g. DOI, journal title and issue number)

All outputs listed in this part must be accessible to the evaluation sub-panels. If they are not available publicly, the submitting institution must be able to provide them on request of the appropriate department of the Ministry.

If the optional information on key research grants that supported the research or grant completion reports has been included, provide the following information:

- to whom the grant was awarded
- the title of the grant
- sponsor
- grant period (with dates)
- financial value of the grant.

Word limit: max. 300 words

[3.1] ID: 131451 **A zrodilo sa zlo.** Mydlíková, Eva; Peter Patyi, Andrea Pastuchová Neumannová, Denisa Vargová, Ľubica Niclusi, 1st ed. Trnava (Slovakia): University of Trnava. Typi Universitatis Tyrnaviensis, SAV, 2019. 157 p. [8,5 AH] [printed]. ISBN 978-80-568-0194-9

<https://repco.truni.sk/?fn=detailBiblioFormChildGOR0&sid=EAA72B33C8E68BF1A7ADA23E30&seo=REPČO-detail-kniha>

[3.2] ID: 1134870 **Zanedbávané dieťa.** Nicolussi, Ľubica. 1st ed. Trnava (Slovakia): University of Trnava. Typi Universitatis Tyrnaviensis and SAV, 2023. 139 p. [6,95 AH] [printed]. ISBN 978-80-568-0573-2

<https://repco.truni.sk/?fn=detailBiblioFormChildIIM0&sid=7BEA8276FFCEE874F9B913EC1719&seo=REPČO-detail-knižná-publikácia>

[3.3] ID: 185206 **Creating rapid test for timely CAN syndrome diagnostics.** Mydlíková, Eva; Patyi, Peter; Vargová, Denisa; Nicolussi, Ľubica; Slaný, Jaroslav. DOI 10.3917/pp.050.0075. **SCO In:** *Pensée Plurielle* [text document (print)]. Charleroi (Belgium): De Boeck Supérieur. ISSN 1376-0963. ISSN (online) 1782-1479. Vol. No. 50, No. 2 (2019), p. 75-90

<https://repco.truni.sk/?fn=detailBiblioFormChildKQBE&sid=8335549613E0E806735C350329&seo=REPČO-detail-Článok>

[3.4] ID: 418675 **Rapid test sociálnej rizikovosti rodiny=Rapid Test of social risk of the Family.** Mydlíková, Eva; Patyi, Peter. **SCO In:** *Sociálna práca* [text document] [e-document]. Brno (Czech Republic): Národní centrum pro rodinu, Brno: Asociace vzdělavatelů v sociální práci. ISSN 1213-6204. ISSN (online) 1805-885X. Vol. 21, No. 3 (2021), p. 5-20

<https://repco.truni.sk/?fn=detailBiblioFormChildQ18T1&sid=EF9BA79F4EF8CB95B023CE6080&seo=REPČO-detail-Článok>

[3.5] ID: 432198 | Diagnostika syndromu týraného, zneužívaného a zanedbávaného dieťa. Mydlíková, Eva. 1st ed. Prague (Czech Republic): Portál, 2021. 134 p. [tlačaná forma]. ISBN 978-80-262-1834-0 <https://repco.truni.sk/?fn=detailBiblioFormChildE1DOR&sid=36F9E267D0DFA06FB97599993&seo=REPČO-detail-kniha>

[3.6] ID: 1580019 **Najlepší zájem a blaho českých a slovenských detí=Well - being of Czech and Slovak children /** Mydlíková, Eva. **In:** *Sociálna práca* [text document (print)] [e-document]. – Brno (Czech Republic): Národní centrum pro rodinu, Brno: Asociace vzdělavatelů v sociální práci. – ISSN 1213-6204. – ISSN (online) 1805-885X. – Vol. 24, No. 2 (2024), p. 24-34 SCO

<https://repco.truni.sk/?fn=detailBiblioFormChildE19UA&sid=6AA8E1A8284D263B41974120F398&seo=REPČO-detail-Článok>

[3.7] Sample test at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Ffzsp.truni.sk%2Fsites%2Fdefault%2Ffiles%2Fdokumenty%2Fcrs%2FDemo_verzia_Rapid_%2520test_CAN.xlsx&wdOrigin=BROWSE

[3.8] Research report for the Labour, Social Affairs and Family Directorate of the Slovak Republic:

https://fzsp.truni.sk/sites/default/files/dokumenty/crs/Ciastkova_sprava_z_realizacie_aplikovaneho_vyskumu.pdf

Key Research Grants

[3.9] Eva Mydlková, APVV-16-205 *Identifikácia mechanizmov včasnej diagnostiky CAN syndrómu. 2016-2019, €201,007*

[3.10] Eva Mydlíková, VEGA 1/0174/2022 *Identifikácia mechanizmov včasnej diagnostiky CAN syndrómu. 2022-2024, €7,699*

Krok 6: Details of the impact

Please provide details about the societal impact according to the described criteria.

4. Details of the impact (max. 750 words)

In this part, provide a narrative with supporting evidence that explains:

- how the research has supported or made a distinct and substantial contribution to societal impact;
- the nature and extent of the societal impact, including a description of the specific institutions and target groups.

Provide the following details:

- A clear explanation of the process or manner in which the research has led to, supported or contributed to societal impact (e.g. how it has been disseminated, how it has influenced users or beneficiaries, or how it has come to be used, adopted or applied).
- If the submitting institution's research was part of a broader research project that contributed to impact (e.g. in the case of research collaborations with other institutions), identify in the case study the specific contributions of the submitting institution's research and list other key contributions of the research.
- Details of the beneficiaries - who or what community, group or organisation has benefited from, been influenced by or affected by the societal impact of the research.
- Details of the nature of the societal impact - how they have benefited, been affected or in what ways their activities have been affected.
- Description of evidence or indicators of the scale of the social impact described, as appropriate to the example.
- The dates and periods when these societal impacts occurred.

In 2013, at the initiative of the staff of the Directorate of Labour, Social Affairs and Family, Department of CSLP, researchers started developing methodologies that could determine the level of risk for children in their families. This led to the development of three methodologies (see Section B.5.1), which are utilised by nearly a thousand SPOD workers across Slovakia. The purpose of these methodologies is to strengthen the professional competencies of workers, particularly in the initial stages of working with clients: diagnosis and assessment. Until now, innovative and comprehensive approaches to working with families in Slovakia have aimed to improve the professional competencies of workers, enabling them to detect risks to children within families more quickly. For at-risk children, this ultimately means faster and more effective intervention, which impacts their quality of life. This shifts the prevailing focus from crisis intervention to preventive work, affecting both the quality of life of the child and the state's financial costs.

Based on the cooperation agreement with the Ministry of Labour, Social Affairs, and Family of the Slovak Republic – Ref. No. 21211/2017-M_NKSpRPnD, Record No.: 51270/2017, concluded from December 1, 2017, to June 30, 2021, we began intensively collecting research data in 2017 for the development of two validated and standardised tests: the Rapid Test to Diagnose CAN Syndrome and the VEGA Test to Assess Family Social Risk. Between 2021 and 2023, a total of 893 SPOD department workers from across Slovakia were trained in the administration, evaluation, and interpretation of these tests. These are the first standardised and validated tests designed primarily for social workers.

Thanks to standardised tests, workers can quantify the level of risk without the doubts they had in their subjective estimation. It is important to use this, especially with workers with no experience, but also with "burnt-out" workers. Errors in estimates are evidenced by some of the research in the aforementioned partial report, and an error rate of 30% for sexually abused children is a disastrous result (B.5.3).

Preliminary results of ongoing data collection also confirm our other assumption, i.e., that children who are drawn into a cruel divorce/separation of the parents will exhibit elevated scores for psychological abuse and also more moderate ones for neglect. If CSLP workers have test results that show signs of psychological abuse, they also have arguments against the parents, who should immediately deescalate the conflict and, if they fail to do so, immediately apply crisis intervention.

The test has been in nationwide use since 2024, and statistical data from the Central Office of Labour, Social Affairs, and Family is only available for 2023. Therefore, we are unable to quantitatively assess the effect of the test and the methodology at this time.

Krok 7: Zdroje na potvrdenie spoločenského dosahu

Prosím vyplňte kontakty na zdroje podľa nižšie uvedených kritérií.

5. Zdroje na potvrdenie spoločenského dosahu (maximálne desať odkazov)

V tejto časti sa uvádzajú aktuálne kontakty na externé zdroje okrem žiadateľa, ktoré poskytli potvrdenie konkrétnych tvrdení, uvedených v prípadovej štúdii. Zdroje uvedené v tejto časti sa nenahrádzajú poskytnutie dôkazov o vplyve v časti B4; V tejto časti sa uvádzajú aktuálne kontaktné údaje o zdrojoch, ktoré by mohli potvrdiť kľúčové tvrdenia o dosahu výskumu pracoviska. Podľa potreby môžu zahŕňať nasledujúce externé zdroje potvrdenia (s uvedením, ktoré tvrdenie zdroj potvrdzuje):

- Správy, recenzie, webové odkazy alebo iné zdokumentované zdroje informácií vo verejnej sfére.
- Dôverné správy alebo dokumenty (ak sú uvedené, musia byť predložené príslušnému útvaru do 31. mája 2025).
- Jednotliví používatelia/prijemcovia, ktorých príslušný útvar môže kontaktovať, aby potvrdili tvrdenia*.
- Vyhlásenia, ktoré už používatelia/prijímatelia poskytli žiadateľovi, ktoré potvrdzujú konkrétne tvrdenia uvedené v prípadovej štúdii (ak sú uvedené, musia byť predložené príslušnému útvaru do 31. mája 2025).

Zdroj č. 1

[5.1] We have also developed three work methodologies for SPOD workers and two diagnostic tests. Confirmation of the use of these methodologies and tests can be found on the department's <https://fzsp.truni.sk/centrum-rodinnych-studii>

Reference: PhDr. Mária Marciová, Director of the Department for the Implementation of CSLP Measures of the Labour, Social Affairs and Family Directorate of the Slovak Republic, tel. +4220455954, maria.marciova@upsvr.gov.sk

Zdroj č. 2

[5.2] Agreement No. 178/OVOSOD/2022 on Cooperation and the Licence Agreement, concluded between the University of Trnava and the Labour, Social Affairs and Family Directorate of the Slovak Republic, with the period from 14.6.2022 to 31.12.2024 available at

https://www.crz.gov.sk/2171273-sk/centralny-register-zmluv/?art_zs2=&art_predmet=Zmluva+%C4%8D.178%2FOVOSOD%2F2022+o+spolupr%C3%A1ci+%&art_ico=&art_suma_spolu_od=&art_suma_spolu_do=&art

The Directorate declares in the Agreement that it will cooperate in the administration of the tests and the supply of data to the researchers.
Reference: Ing. Mgr. Albeta Stakovanová, manager of methodological management of the national project RVO SPODaSK 2, the Slovak Republic Office of Labour, Social Affairs and Family, +421908 718 350; Albeta.stakovanova@upsvr.gov.sk.

Zdroj č. 3

[5.3] The researchers will, in turn, provide relevant research data to the Central Office of Labour, Social Affairs, and Family.

https://fzsp.truni.sk/sites/default/files/dokumenty/crs/Ciastkova_sprava_z_realizacie_aplikovaneho_vyskumu.pdf

Zdroj č. 4

[5.4] The umbrella organisation Caritas Czech Republic has also expressed interest in the testing methods. We have concluded a cooperation agreement regarding the use of the tests and their results in the practice of social and legal protection of children, as well as a licence agreement - TvU_2024_FZSP_12 Bc.

Contact person: Michaela Lochmanová, DiS., Head of Services for Liberec and Žatec Regions, Caritas Most, Frantika Malka 956/16a, 434 01 Most, +420 775 713 302 e-mail: lochmanova@charita-most.cz

https://www.crz.gov.sk/2171273-sk/centralny-register-zmluv/?art_zs2=&art_predmet=Zmluva+o+spolupr%C3%A1ci+pri+vvyu%C5%BE%C3%ADvan%C3%AD+testov+a+ich+v%C3%BDsledkov&art_ico=&art_suma_s

Zdroj č. 5

[5.5] The Social Services Centre implemented the DGV2022 project DGV2022 Building Bridges of Support through funding from the Norwegian Grants. As part of this project, 69 non-profit organisations' employees were trained in the use of the tests between 2022 and 2024.

<https://fzsp.truni.sk/centrum-rodinnych-studii>

Zdroj č. 6

Zdroj č. 7

Zdroj č. 8

Zdroj č. 9

Zdroj č. 10

Krok 8: Other contextual data

Fields in this part are additional and optional. This information is provided in a separate form and is not included in the five-page limit.

Name(s) of funder(s):**Global Research Identifier of funder(s) (<https://www.grid.ac/>):****Name(s) of funding programme(s):**

Slovak Research and Development Agency (APVV)

Science Grant Agency of the Ministry of Education, Research, Development and Youth of the Slovak Republic

Grant number(s):

APVV 16-0205 Identification of mechanisms for early diagnosis CAN syndrome

VEGA 1/0174/22 Rapid diagnosis of the Child abused and Neglected syndrome in the social protection of children

Amount of grant (in EUR):

201 007€

8 089€

ORCID for each named researcher, where available:

Eva Mydlíková 0009-0003-5912-1528

Peter Patyi 0000-0002-0202-5194

Ľubica Nicolussi 0009-0005-7252-2451

Name(s) of formal partner(s):**Countries where the impact occurred:**

Slovak Republic, Czech Republic