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| **Charakteristika predkladaného výstupu tvorivej činnosti /  Characteristics of the submitted research/ artistic/other output** | | |
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| *Tlačivo VTC slúži na predkladanie výstupov tvorivej činnosti podľa metodiky hodnotenia tvorivých činností (časť V. Metodiky na vyhodnocovanie štandardov) / The form is used to submit the research/artistic/other outputs according to the evaluation methodology of research/artistic/other activities (part V. The Methodology for Standards Evaluation).* | | |  |
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|  | [ID konania/ID of the procedure: 1](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) |  |  |
|  | [Kód VTC/Code of the research/artistic/other output (RAOO):](file:///E:\\Šablony%20akreditácia\\4_VTC.xlsx" \l "'poznamky_explanatory notes'!A1)[1](file:///E:\\Šablony%20akreditácia\\4_VTC.xlsx" \l "'poznamky_explanatory notes'!A1) |  |  |
|  |  |  |  |
| [OCA1. Priezvisko hodnotenej osoby / Surname awarded to the assessed person 2](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | Stříteský |  |
| [OCA2. Meno hodnotenej osoby / Name awarded to the assessed person 2](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | Martin |  |
| [OCA3. Tituly hodnotenej osoby / Degrees awarded to the assessed person 2](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | Doc. MUDr. Ph.D. |  |
| [OCA4. Hyperlink na záznam osoby v Registri zamestnancov vysokých škôl / Hyperlink to the entry of the person in the Register of university staff 3](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | https://www.portalvs.sk/regzam/detail/62323 |  |
| [OCA5. Oblasť posudzovania / Area of assessment 4](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | Urgentná zdravotná starostlivosť / 1. stupeň/ Emergenci Health Cara |  |
| [OCA6. Kategória výstupu tvorivej činnosti / Category of the research/ artistic/other output  *Výber zo 6 možností (pozri Vysvetlivky k položke OCA6) / Choice from 6 options (see Explanations for OCA6).*](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#Expl.OCA6!A1) | | Odborný výstup / Professional output  Pedagogický výstup / Pedagogical output |  |
| OCA7. Rok vydania výstupu tvorivej činnosti / Year of publication of the research/artistic/other output | | 2009 |  |
| [OCA8. ID záznamu v CREPČ alebo CREUČ *(ak je)* / ID of the record in the Central Registry of Publication Activity (CRPA) or the Central Registry of Artistic Activity (CRAA) 5](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | |  |  |
| [OCA9. Hyperlink na záznam v CREPČ alebo CREUČ / Hyperlink to the record in CRPA or CRAA 6](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | |  |  |
| Charakteristika výstupu, ktorý nie je registrovaný v CREPČ alebo CREUČ / Characteristics of the output that is not registered in CRPA or CRAA | [OCA10. Hyperlink na záznam v inom verejne prístupnom registri, katalógu výstupov tvorivých činností / Hyperlink to the record in another publicly accessible register, catalogue of research/ artistic/other outputs 7](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671097/> |  |
|  | OCA11. Charakteristika výstupu vo formáte bibliografického záznamu CREPČ alebo CREUČ, ak výstup nie je vo verejne prístupnom registri alebo katalógu výstupov / Characteristics of the output in the format of the CRPA or the CRAA bibliographic record, if the output is not available in a publicly accessible register or catalogue of outputs | **Comparison of Three Protocols for Tight Glycemic Control in Cardiac Surgery Patients.**  **Blaha, J., Kopecky, P., Matias, M., Hovorka, R., Kunstyr, J., Kotulak, T., Lips, M., Rubes, D., Stritesky, M., Lindner, J., Semrad, M., Haluzik, M. Comparison of three protocols for tight glycemic control in cardiac surgery patients (2009) Diabetes Care, 32 (5), pp. 757-761. Cited 75 times.** |  |

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|  | [OCA12. Typ výstupu (ak nie je výstup registrovaný v CREPČ alebo CREUČ) / Type of the output (if the output is not registered in CRPA or CRAA) *Výber zo 67 možností (pozri Vysvetlivky k položke OCA12) / Choice from 67 options (see Explanations for OCA12).*](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#Expl.OCA12!A1) | ***Document Type: Article Publication Stage: Final Access Type: Open Access Source: Scopus*** |  |
| OCA13. Hyperlink na stránku, na ktorej je výstup sprístupnený (úplný text, iná dokumentácia a podobne) / Hyperlink to the webpage where the output is available (full text, other documentation, etc.) | https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2671097 |  |
| OCA14. Charakteristika autorského vkladu / Characteristics of the author's contribution | Podiel autora: Stříteský 10% |  |
| [OCA15. Anotácia výstupu s kontextovými informáciami týkajúcimi sa opisu tvorivého procesu a obsahu tvorivej činnosti a pod. / Annotation of the output with contextual information concerning the description of creative process and the content of the research/artistic/other activity, etc. 8*Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in SlovakRozsah do 200 slov v anglickom jazyku / Range up to 200 words in English*](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | Provedli jsme randomizovanou studii s cílem porovnat tři protokoly titrace inzulínu pro přísnou kontrolu glykémie (TGC) na chirurgické jednotce intenzivní péče: protokol absolutní glukózy (Matias), protokol relativní změny glukózy (Bath) a vylepšený model prediktivní kontroly ( eMPC) algoritmus.  Celkem 120 po sobě jdoucích pacientů po kardiochirurgickém výkonu bylo náhodně rozděleno do tří protokolů s cílovým rozmezím glykémie od 4,4 do 6,1 mmol/l. Intravenózní inzulín byl podáván kontinuálně nebo v kombinaci s inzulínovými bolusy (Matiasův protokol). Hladina glukózy v krvi byla měřena v 1- až 4-hodinových intervalech, jak to vyžadují protokoly.  Algoritmus eMPC podal nejlepší výkon, jak bylo hodnoceno podle času do cíle (8,8 ± 2,2 vs. 10,9 ± 1,0 vs. 12,3 ± 1,9 h; eMPC vs. Matias vs. Bath, v tomto pořadí; P < 0,05), průměrná glykémie po dosažení cíl (5,2 ± 0,1 vs. 6,2 ± 0,1 vs. 5,8 ± 0,1 mmol/l; P < 0,01), čas v cíli (62,8 ± 4,4 vs. 48,4 ± 3,28 vs. 55,5 ± 3,2 % v; P < hyperglykémie >8,3 mmol/l (1,3 ± 1,2 vs. 12,8 ± 2,2 vs. 6,5 ± 2,0 %; P < 0,05) a interval odběru (2,3 ± 0,1 vs. 2,1 ± 0,1 vs. 1,8 ± 0,1 h) < 0,1 vs. 1,8 ± 0,1 . Doba v rozmezí rizika hypoglykémie (2,9–4,3 mmol/l) ve skupině eMPC však byla nejdelší (22,2 ± 1,9 vs. 10,9 ± 1,5 vs. 13,1 ± 1,6; P < 0,05). Ve skupině eMPC se nevyskytla žádná těžká hypoglykemická epizoda (<2,3 mmol/l) ve srovnání s jednou ve skupině Matias a dvěma ve skupině Bath. |  |
| [OCA16. Anotácia výstupu v anglickom jazyku / Annotation of the output in English  9*Rozsah do 200 slov / Range up to 200 words*](file:///E:\Šablony%20akreditácia\4_VTC.xlsx#'poznamky_explanatory notes'!A1) | | We performed a randomized trial to compare three insulin-titration protocols for tight glycemic control (TGC) in a surgical intensive care unit: an absolute glucose (Matias) protocol, a relative glucose change (Bath) protocol, and an enhanced model predictive control (eMPC) algorithm.  A total of 120 consecutive patients after cardiac surgery were randomly assigned to the three protocols with a target glycemia range from 4.4 to 6.1 mmol/l. Intravenous insulin was administered continuously or in combination with insulin boluses (Matias protocol). Blood glucose was measured in 1- to 4-h intervals as requested by the protocols.  The eMPC algorithm gave the best performance as assessed by time to target (8.8 ± 2.2 vs. 10.9 ± 1.0 vs. 12.3 ± 1.9 h; eMPC vs. Matias vs. Bath, respectively; P < 0.05), average blood glucose after reaching the target (5.2 ± 0.1 vs. 6.2 ± 0.1 vs. 5.8 ± 0.1 mmol/l; P < 0.01), time in target (62.8 ± 4.4 vs. 48.4 ± 3.28 vs. 55.5 ± 3.2%; P < 0.05), time in hyperglycemia >8.3 mmol/l (1.3 ± 1.2 vs. 12.8 ± 2.2 vs. 6.5 ± 2.0%; P < 0.05), and sampling interval (2.3 ± 0.1 vs. 2.1 ± 0.1 vs. 1.8 ± 0.1 h; P < 0.05). However, time in hypoglycemia risk range (2.9–4.3 mmol/l) in the eMPC group was the longest (22.2 ± 1.9 vs. 10.9 ± 1.5 vs. 13.1 ± 1.6; P < 0.05). No severe hypoglycemic episode (<2.3 mmol/l) occurred in the eMPC group compared with one in the Matias group and two in the Bath group. |  |
| OCA17. Zoznam najviac 5 najvýznamnejších ohlasov na výstup / List of maximum 5 most significant citations corresponding to the output  *Rozsah do 200 slov / Range up to 200 words* | | 75  1) Watkins, A.R., Fialka, N., El-Andari, R., Kang, J.J.H., Bozso, S.J., Nagendran, J. Effect of glucagon-like peptide-1 receptor agonists administration during coronary artery bypass grafting: a systematic review and meta-analysis of randomized control trials (2023) Future Cardiology, 19 (2), pp. 105-115. 2-s2.0-85159737682 Document Type: Review Publication Stage: Final Source: Scopus  2) Chase, J.G., Zhou, C., Knopp, J.L., Moeller, K., Benyo, B., Desaive, T., Wong, J.H.K., Malinen, S., Naswall, K., Shaw, G.M., Lambermont, B., Chiew, Y.S. Digital Twins and Automation of Care in the Intensive Care Unit (2023) Cyber–Physical–Human Systems: Fundamentals and Applications, pp. 457-489. 2-s2.0-85165048075 Document Type: Book Chapter Publication Stage: Final Source: Scopus  3) González-Caro, M.-D., Fernández-Castillo, R.-J., Carmona-Pastor, M., Arroyo-Muñoz, F.-J., González-Fernández, F.-J., Garnacho-Montero, J. Effectiveness and safety of the Space GlucoseControl system for glycaemia control in caring for postoperative cardiac surgical patients (2022) Australian Critical Care, 35 (2), pp. 136-142. Cited 1 time. 2-s2.0-85105248616 Document Type: Article Publication Stage: Final Source: Scopus  4) Mebrahtu, T.F., Skyrme, S., Randell, R., Keenan, A.-M., Bloor, K., Yang, H., Andre, D., Ledward, A., King, H., Thompson, C. Effects of computerised clinical decision support systems (CDSS) on nursing and allied health professional performance and patient outcomes: A systematic review of experimental and observational studies (2021) BMJ Open, 11 (12), art. no. e053886, . Cited 12 times. 2-s2.0-85122215286 Document Type: Review Publication Stage: Final Source: Scopus  5) Chancellor, W.Z., Mehaffey, J.H., Hawkins, R.B., Charles, E.J., Tribble, C., Yarboro, L.T., Ailawadi, G., Kirby, J.L. Electronic Glycemic Management System and Endocrinology Service Improve Value in Cardiac Surgery (2021) American Surgeon, 87 (4), pp. 568-575. Cited 2 times. 2-s2.0-85104894239 Document Type: Article Publication Stage: Final Source: Scopus |  |
| OCA18. Charakteristika dopadu výstupu na spoločensko-hospodársku prax / Characteristics of the output's impact on socio-economic practice  *Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in Slovak Rozsah do 200 slov v anglickom jazyku / Range up to 200 words in English* | |  |  |
| OCA19. Charakteristika dopadu výstupu a súvisiacich aktivít na vzdelávací proces / Characteristics of the output and related activities' impact on the educational process *Rozsah do 200 slov v slovenskom jazyku / Range up to 200 words in Slovak Rozsah do 200 slov v anglickom jazyku / Range up to 200 words in English* | |  |  |