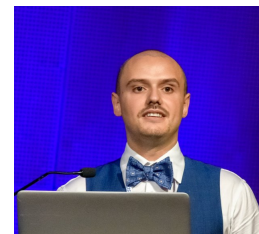


Caius Mihail Constantinescu, MD  
Odense Universitetshospital

ORCID: 0000-0001-8135-3411  
Email: Caius.Mihail.Constantinescu@rsyd.dk  
ORCID: 0000-0001-8135-3411  
Email: Caius.Mihail.Constantinescu@rsyd.dk



## Kvalifikationer

Medicin (lægevidenskab), Læge, Fusion and healing prediction in posterolateral spinal fusion using  $^{18}\text{F}$ -sodium fluoride-PET/CT, Syddansk Universitet  
aug. 2013 → jan. 2020  
Dimissionsdato: 31. jan. 2020

## Forskningsinteresser

Caius har erfaring med PET/CT billede analyse og fortolkning af resultater. Han er særlig interesseret i optimering af arbejdsgange og automatiserede procedurer, hele vejen fra det indsamlede data til de afsluttende statistiske resultater. Caius er bekendt med både FDG og NaF skanninger og hans første medforfatterskab er fra 2016.

## Ansættelser

November 2020 - Poder, COVID-19 center Svendborg, Odense Universitetshospital  
nu  
August 2020 - nu Forskningsassistent, Diagnostisk Center Svendborg, Odense Universitetshospital  
Februar 2020 - Læge, Nuklearmedicinsk Afdeling, Odense Universitetshospital  
Juli 2020  
Oktober 2014 - Forskningsassistent, Diagnostisk Center Svendborg, Odense Universitetshospital  
Januar 2020

## Frivillig arbejde

Juni 2020 - nu Anmelder, Advances in Biochemistry (SciencePG)  
Februar 2015 - Bestyrelsesmedlem og kasserer, SDU Cykling  
Marts 2019  
November 2013 - Bestyrelsesmedlem og kasserer, Børn&Sundhed  
Februar 2016

## Forskningsaktivitet

Medvirker på 8 videnskabelige peer reviderede artikler, 1 førsteforfatterskab og 7 som medforfatter. En mundtlig fremlæggelse på international kongres (EANM 2019). Medvejleder på to afsluttede kandidatspecialer. H-index 3 målt i april 2021.

## Publikationer

- Carotid artery molecular calcification assessed by [ $^{18}\text{F}$ ]fluoride PET/CT: correlation with cardiovascular and thromboembolic risk factors**  
Castro, S. A., Muser, D., Lee, H., Hancin, E. C., Borja, A. J., Acosta, O., Werner, T. J., Thomassen, A., Constantinescu, C., Høilund-Carlsen, P. F. & Alavi, A., okt. 2021, I: European Radiology. 31, 10, s. 8050-8059
- Comparison of  $^{18}\text{F}$ -sodium fluoride uptake in the whole bone, pelvis, and femoral neck of multiple myeloma patients before and after high-dose therapy and conventional-dose chemotherapy**  
Zirakchian Zadeh, M., Østergaard, B., Raynor, W. Y., Revheim, M.-E., Seraj, S. M., Acosta-Montenegro, O., Ayubcha, C., Yellanki, D. P., Al-Zaghal, A., Nielsen, A. L., Constantinescu, C. M., Gerke, O., Werner, T. J., Zhuang, H., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., nov. 2020, I: European Journal of Nuclear Medicine and Molecular Imaging. 47, 12, s. 2846-2855
- Atherosclerosis Imaging with  $^{18}\text{F}$ -Sodium Fluoride PET**  
Høilund-Carlsen, P. F., Piri, R., Constantinescu, C., Iversen, K. K., Werner, T. J., Sturek, M., Alavi, A. & Gerke, O., 20. okt. 2020, I: Diagnostics. 10, 10, 14 s., 852.
- Fusion and Healing Prediction in Posterolateral Spinal Fusion Using  $^{18}\text{F}$ -Sodium Fluoride-PET/CT**  
Constantinescu, C. M., Jacobsen, M. K., Gerke, O., Andersen, M. Ø. & Høilund-Carlsen, P. F., 16. apr. 2020, I: Diagnostics. 10, 4, 9 s., 226.

5. **Artificial intelligence-based versus manual assessment of prostate cancer in the prostate gland: a method comparison study**  
Mortensen, M. A., Borrelli, P., Poulsen, M. H., Gerke, O., Enqvist, O., Ulén, J., Trägårdh, E., Constantinescu, C., Edenbrandt, L., Lund, L. & Høilund-Carlsen, P. F., nov. 2019, I: *Clinical Physiology and Functional Imaging*. 39, 6, s. 399-406
6. **Prognostic value of NaF-PET/CT in non-instrumented posterolateral lumbar fusion**  
Constantinescu, C., Piri, R., Gerke, O., Andersen, M. Ø. & Høilund-Carlsen, P. F., okt. 2019, I: *European Journal of Nuclear Medicine and Molecular Imaging*. 46, Suppl. 1, s. S242-S243 OP-631.
7. **Diagnostic implications of neuronal network diaschisis in patients with Parkinson's disease**  
Majdi, A., Constantinescu, C., Pedersen, K., Wermuth, L., Gjedde, A. & Segtnan, E., 1. jul. 2019, I: *Journal of Cerebral Blood Flow and Metabolism*. 39, Suppl. 1, s. 565 1 s.
8. **A higher increase in FDG uptake in whole bone marrow of multiple myeloma patients from early to delayed pre-treatment scans is associated with poor response to treatment and inferior survival**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Ayubcha, C., Acosta-Montenegro, O., Yellanki, D., Seraj, S. M., Rojulpote, C., Gerke, O., Constantinescu, C. M., Werner, T., Zhuang, H., Høilund-Carlsen, P. F. & Alavi, A., 1. maj 2019, I: *Journal of Nuclear Medicine*. 60, Supplement 1, 21.
9. **Assessment of uptake of FDG in the whole bone marrow of multiple myeloma and smoldering multiple myeloma patients through a novel method of PET/CT quantification: comparison with a control group**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Ayubcha, C., Acosta-Montenegro, O., Yellanki, D., Taghvaei, R., Gerke, O., Constantinescu, C. M., Werner, T., Zhuang, H., Høilund-Carlsen, P. F. & Alavi, A., 1. maj 2019, I: *Journal of Nuclear Medicine*. 60, Supplement 1, 143.
10. **Baseline global splenic uptake of FDG in multiple myeloma patients: a higher uptake is associated with inferior overall survival**  
Zadeh, M. Z., Nguyen, D., Østergaard, B., Ayubcha, C., Al-Zaghal, A., Raynor, W., Rojulpote, C., Gerke, O., Constantinescu, C. M., Werner, T., Zhuang, H., Høilund-Carlsen, P. F. & Alavi, A., 1. maj 2019, I: *Journal of Nuclear Medicine*. 60, Supplement 1, 22.
11. **Evaluation of myeloma bone disease by means of <sup>18</sup>F-sodium fluoride PET/CT**  
Zadeh, M. Z., Østergaard, B., Seraj, S. M., Ayubcha, C., Raynor, W., Gerke, O., Constantinescu, C. M., Werner, T., Zhuang, H., Høilund-Carlsen, P. F. & Alavi, A., 1. maj 2019, I: *Journal of Nuclear Medicine*. 60, Supplement 1, 24.
12. **Evaluation of response to treatment in multiple myeloma patients by a semi-automated FDG-PET/CT quantification method**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Ayubcha, C., Acosta-Montenegro, O., Seraj, S. M., Gerke, O., Constantinescu, C. M., Werner, T., Zhuang, H., Høilund-Carlsen, P. F. & Alavi, A., 1. maj 2019, I: *Journal of Nuclear Medicine*. 60, Supplement 1, 23.
13. **Diagnostic manifestations of total hemispheric glucose metabolism ratio in neuronal network diaschisis: diagnostic implications in Alzheimer's disease and mild cognitive impairment**  
Antonsen Segtnan, E., Majdi, A., Constantinescu, C. M., Grupe, P., Gerke, O., Dali, H. T. Í., Strøm, O. E., Holm, J., Alavi, A., Sadigh-Eteghad, S., Wermuth, L., Hildebrandt, M., Gjedde, A. & Høilund-Carlsen, P. F., maj 2019, I: *European Journal of Nuclear Medicine and Molecular Imaging*. 46, 5, s. 1164-1174
14. **Association between age, uptake of 18F-fluorodeoxyglucose and of 18F-sodium fluoride, as cardiovascular risk factors in the abdominal aorta**  
Arani, L. S., Gharavi, M. H., Zadeh, M. Z., Raynor, W. Y., Seraj, S. M., Constantinescu, C. M., Gerke, O., Werner, T. J., Høilund-Carlsen, P. F. & Alavi, A., 8. mar. 2019, I: *Hellenic Journal of Nuclear Medicine*. 22, 1, s. 14-19
15. **The Role of PET in Evaluating Atherosclerosis: A Critical Review**  
Moghbel, M., Al-Zaghal, A., Werner, T. J., Constantinescu, C. M., Høilund-Carlsen, P. F. & Alavi, A., 1. nov. 2018, I: *Seminars in Nuclear Medicine*. 48, 6, s. 488-497
16. **FDG-PET/CT for assessment of pain perception and correlation to clinical outcome following surgery for lumbar disc herniation**  
Stoettrup, C. C., Khosravi, M., Constantinescu, C. M., O'Neill, S., Andersen, M. Ø., Alavi, A. & Høilund-Carlsen, P. F., 2018.
17. **FDG-PET/CT for evaluation of inflammation in the lumbar spine following surgery for lumbar disc herniation**  
Støttrup, C. C., Zadeh, M., Constantinescu, C. M., O'Neill, S., Andersen, M. Ø., Alavi, A. & Høilund-Carlsen, P. F., 1. okt. 2017, I: *European Journal of Nuclear Medicine and Molecular Imaging*. 44, 2 Suppl., s. 472 1 s., EP-0099.
18. **Comparison of global uptake of NaF-PET/CT in whole-body bone in multiple myeloma and healthy controls**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Taghvaei, R., Acosta-Montenegro, O., Ayubcha, C., Khosravi, M., Constantinescu, C. M., Nielsen, A. L., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., jun. 2017, s. 768.
19. **Feasibility of using global FDG uptake in bone marrow to assess treatment of multiple myeloma**  
Acosta-Montenegro, O., Raynor, W., Østergaard, B., Zadeh, M. Z., Taghvaei, R., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., jun. 2017, s. 189.

20. **Global quantification of NaF in the skeleton: assessing bone formation in multiple myeloma patients before and after treatment**  
Raynor, W., Acosta-Montenegro, O., Østergaard, B., Zadeh, M. Z., Ayubcha, C., Taghvaei, R., Khosravi, M., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., jun. 2017, s. 1214.
21. **Quantification of the total bone marrow activity with FDG-PET in multiple myeloma before and after treatment: comparison with a control group**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Taghvaei, R., Acosta-Montenegro, O., Khosravi, M., Nielsen, A. L., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., jun. 2017, s. 190. 1 s.
22. **Prognostic implications of total hemispheric glucose metabolism ratio in cerebro-cerebellar diaschisis**  
Segtnan, E. A., Grupe, P., Jarden, J. O., Gerke, O., Ivanidze, J., Christlieb, S. B., Constantinescu, C. M., Pedersen, J. E., Houshmand, S., Hess, S., Zarei, M., Gjedde, A., Alavi, A. & Høilund-Carlsen, P. F., maj 2017, I: Journal of Nuclear Medicine. 58, 5, s. 768-773
23. **Comparison of global uptake of NaF-PET/CT in whole-body bone in multiple myeloma and healthy controls**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Taghvaei, R., Acosta-Montenegro, O., Ayubcha, C., Khosravi, M., Constantinescu, C. M., Nielsen, A. L., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 768
24. **Decline with age in normal cerebral and cerebellar glucose metabolism in women and men determined by FDG PET/CT**  
Seifar, F., Parnianfard, N., Constantinescu, C. M., Shakouri, K. & Høilund-Carlsen, P. F., 2017, I: European Journal of Nuclear Medicine and Molecular Imaging. 44, Suppl. 2, s. 616 1 s., EP-0434.
25. **Diagnostic implications of total hemi-spheric glucose metabolism ratio in Mild cognitive impairment and Alzheimer's disease**  
Antonsen Segtnan, E., Majdi, A., Constantinescu, C. M., Grupe, P., Dali, H. T. Í., Strøm, O. E., Holm, J., Seyedi Vafae, M., Sadigh-Eteghad, S., Wermuth, L., Gjedde, A. & Høilund-Carlsen, P. F., 2017, I: European Journal of Nuclear Medicine and Molecular Imaging. 44, 2 Suppl. , s. 597-598 EP-0392.
26. **Evaluation of the role of aging on quantification of NaF uptake in the shoulder, hip and knee joints**  
Zadeh, M. Z., Raynor, W., Taghvaei, R., Khosravi, M., Shamchi, S. P., Østergaard, B., Constantinescu, C. M., Nielsen, A. L., Werner, T., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 1215
27. **Feasibility of using global FDG uptake in bone marrow to assess treatment of multiple myeloma**  
Acosta-Montenegro, O., Raynor, W., Østergaard, B., Zadeh, M. Z., Taghvaei, R., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 189
28. **Global quantification of NaF in the skeleton: assessing bone formation in multiple myeloma patients before and after treatment**  
Raynor, W., Acosta-Montenegro, O., Østergaard, B., Zadeh, M. Z., Ayubcha, C., Taghvaei, R., Khosravi, M., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 1214
29. **Increasing level of FDG uptake in shoulder, hip, and knee joints with aging: age related inflammation in the joints**  
Zadeh, M. Z., Raynor, W., Taghvaei, R., Khosravi, M., Shamchi, S. P., Østergaard, B., Nielsen, A. L., Constantinescu, C. M., Werner, T., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 1228
30. **Quantification of the total bone marrow activity with FDG-PET in multiple myeloma before and after treatment: comparison with a control group**  
Zadeh, M. Z., Østergaard, B., Raynor, W., Taghvaei, R., Acosta-Montenegro, O., Khosravi, M., Nielsen, A. L., Constantinescu, C. M., Werner, T., Abildgaard, N., Høilund-Carlsen, P. F. & Alavi, A., 2017, I: Journal of Nuclear Medicine. 58, Suppl. 1, s. 190 1 s.
31. **Inter-observer variability of total hemispheric glycolysis ratio obtained at 1-hour and 3-hour FDG-PET/CT imaging in glioma patients**  
Segtnan, E. A., Constantinescu, C. M., Holm, J., Grupe, P., Gerke, O. & Høilund-Carlsen, P. F., 2016.
32. **Total hemispheric glycolysis ratio by FDG-PET/CT in gliomas; Evaluating diaschisis and potential prognostic information**  
Segtnan, E. A., Grupe, P., Gerke, O., Jarden, J. O., Christlieb, S. B., Constantinescu, C. M., Pedersen, J., Houshmand, S., Hess, S., Zarei, M., Gjedde, A., Alavi, A. & Høilund-Carlsen, P. F., 2016.