

Liste de publications de Laboratoire de radio-physique et de physique de l'IRM

Articles dans des revues avec comité de lecture

2020

Camera, S., Akin Telli, T., Woff, E., Vandeputte, C., Kehagias, P., Guiot, T., Critchi, G., Wissam, Y., Bregni, G., Trevisi, E., Pretta, A., Senti, C., Leduc, S., Gkolfakis, P., Hoerner, F., Rothé, F., Sclafani, F., Flamen, P., Deleporte, A., & Hendlisz, A. (2020). Prognostic Value of the Pace of Tumor Progression as Assessed by Serial 18F-FDG PET/CT Scan and Liquid Biopsy in Refractory Colorectal Cancer: The CORIOLAN Trial. *Cancers*, 12(10), 2752. doi:10.3390/cancers12102752

https://dipot.ulb.ac.be/dspace/bitstream/2013/313168/1/doi_296812.pdf

https://dipot.ulb.ac.be/dspace/bitstream/2013/313168/5/CORIOLAN_Trial.pdf

Anciaux, M., Van Gossum, A., Wengliniski, C., Ameye, L., Guiot, T., Flamen, P., Demetter, P., Deleporte, A., Sclafani, F., Donckier De Donceel, V., Hendlisz, A., & Vandeputte, C. (2020). Fat density is a novel prognostic marker in patients with esophageal cancer. *Clinical Nutrition ESPEN*, 39, 124-130. doi:10.1016/j.clnesp.2020.07.007

<https://dipot.ulb.ac.be/dspace/bitstream/2013/312414/3/ClinESPEN-Anciaux.pdf>

Hespeels, B., Penninckx, S., Cornet, V., Bruneau, L., Bopp, C., Baumlé, V., Redivo, B., Heuskin, A.-C., Moeller, R., Fujimori, A., Lucas, S., & Van Doninck, K. (2020). Iron Ladies – How Desiccated Asexual Rotifer *Adineta vaga* Deal With X-Rays and Heavy Ions? *Frontiers in microbiology*, 11. doi:10.3389/fmicb.2020.01792

https://dipot.ulb.ac.be/dspace/bitstream/2013/324095/1/doi_307739.pdf

Largent, A., Marage, L., Gicquiau, I., Nunes, J.-C., Reynaert, N., Castelli, J., Chajon, E., Acosta, O., Gambarota, G., de Crevoisier, R., & Saint-Jalmes, H. (2020). Planification de radiothérapie externe pour la sphère ORL à partir d'imagerie par résonance magnétique: de l'acquisition en position de traitement à la génération de pseudo-scanographie. *Cancer radiothérapie*, 24(4), 288-297. doi:10.1016/j.canrad.2020.01.008

https://dipot.ulb.ac.be/dspace/bitstream/2013/330757/5/Largent_sCT.pdf

https://dipot.ulb.ac.be/dspace/bitstream/2013/330757/1/elsevier_314401.pdf

Alhamada, H., Simon, S., Philippson, C., Vandekerkhove, C., Jourani, Y., Pauly, N., Van Gestel, D., & Reynaert, N. (2020). Monte Carlo dose calculations of shielding disks with different material combinations in intraoperative electron radiation therapy (IOERT). *Cancer radiothérapie*, 24(2), 128-134. doi:10.1016/j.canrad.2020.02.006

<https://dipot.ulb.ac.be/dspace/bitstream/2013/306832/3/IOERT2020.pdf>

Brou Boni, K., Klein, J. J., Vanquin, L., Wagner, A., Lacornerie, T., Pasquier, D., & Reynaert, N. (2020). MR to CT synthesis with multicenter data in the pelvic area using a conditional generative adversarial network. *Physics in medicine and biology*, 65(7), 075002. doi:10.1088/1361-6560/ab7633

2019

Woff, E., Kehagias, P., Vandeputte, C., Ameye, L., Guiot, T., Paesmans, M., Hendlisz, A., & Flamen, P. (2019). Combining 18F-FDG PET/CT-based metabolically active

tumor volume and circulating cell-free DNA significantly improves outcome prediction in chemorefractory metastatic colorectal cancer. *The Journal of nuclear medicine*, 60(10), 1366-1372. doi:10.2967/jnumed.118.222919

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Reynaert, N. (2019). Planification de la radiothérapie basée sur TEP/IRM : gestion des incertitudes. *Cancer radiothérapie*, 23(6-7), 753-760. doi:10.1016/j.canrad.2019.08.002

https://dipot.ulb.ac.be/dspace/bitstream/2013/330758/3/Reynaert_PET_MRI.pdf

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Krayem, M., Sabbah, M., Najem, A., Wouters, A., Lardon, F., Simon, S., Sales, F., Journée, F., Awada, A., Ghanem, G. E., & Van Gestel, D. (2019). The benefit of reactivating p53 under MAPK inhibition on the efficacy of radiotherapy in melanoma. *Cancers (Basel)*, 11(8), 1093. doi:10.3390/cancers11081093

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Vanquin, L., Boydev, C., Korhonen, J., Rault, E., Crop, F., Lacornerie, T., Wagner, A., Laffarguette, J., Pasquier, D., & Reynaert, N. (2019). Planification de la radiothérapie du cancer de la prostate par l'imagerie par résonance magnétique. *Cancer radiothérapie*, 23(4), 281-289. doi:10.1016/j.canrad.2018.09.005

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Artigas Guix, C., Flamen, P., Charlier, F., Levillain, H., Wimana, Z., Diamand, R., Albinini, S., Gil, T., Van Velthoven, R., Peltier, A., Van Gestel, D., Roumeguere, T., & Otte, F.-X. (2019). 68Ga-PSMA PET/CT-based metastasis-directed radiotherapy for oligometastatic prostate cancer recurrence after radical prostatectomy. *World journal of urology*. doi:10.1007/s00345-019-02701-1

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Woff, E., Hendlisz, A., Ameye, L., Garcia, C., Kamoun, T., Guiot, T., Paesmans, M., & Flamen, P. (2019). Validation of Metabolically Active Tumor Volume and Total Lesion Glycolysis as 18F-FDG PET/CT-derived Prognostic Biomarkers in Chemorefractory Metastatic Colorectal Cancer. *The Journal of nuclear medicine*, 60(2), 178-184. doi:10.2967/jnumed.118.210161

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Charette, N., Vandeputte, C., Ameye, L., Van Bogaert, C., Krygier, J., Guiot, T., Deleporte, A., Delaunoit, T., Geboes, K., Van Laethem, J.-L., Peeters, M., Demolin, G., Holbrechts, S., Flamen, P., Paesmans, M., & Hendlisz, A. (2019). Prognostic value of adipose tissue and muscle mass in advanced colorectal cancer: A post hoc analysis of two non-randomized phase II trials. *BMC cancer*, 19(1), 134. doi:10.1186/s12885-019-5319-8

https://dipot.ulb.ac.be/dspace/bitstream/2013/290122/3/doi_273749.pdf

Alhamada, H., Simon, S., Philippon, C., Vandekerckhove, C., Jourani, Y., Pauly, N., Van Gestel, D., & Reynaert, N. (2019). 3D Monte Carlo dosimetry of intraoperative electron radiation therapy (IOERT). *Physica medica*, 57, 207-214. doi:10.1016/j.ejmp.2018.12.037

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<https://dipot.ulb.ac.be/dspace/bitstream/2013/283753/5/PhysMed572019207.pdf>

Levillain, H., Duran Derijckere, I., Ameye, L., Guiot, T., Braat, A. A., Meyer, C., Vanderlinden, B., Reynaert, N., Hendlisz, A., Lam, M. M., Deroose, C. M., Ahmadzadehfar, H., & Flamen, P. (2019). Personalised radioembolization improves outcomes in refractory intra-hepatic cholangiocarcinoma: a multicenter study. *European journal of nuclear medicine and molecular imaging*. doi:10.1007/s00259-019-04427-z

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Duran Derijckere, I., Levillain, H., Bohlok, A., Mathey, C., Nezri, J., Muteganya, R., Trotta, N., Lucidi, V., Bouazza, F., Germanova, D., Van Simaey, G., Goldman, S., Hendlisz, A., Flamen, P., & Donckier De Donceel, V. (2019). The metabolic clinical risk score as a new prognostic model for surgical decision-making in patients with colorectal liver metastases. *Journal of surgical oncology*. doi:10.1002/jso.25763

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2018

Marin, G., Vanderlinden, B., Karfis, I., Guiot, T., Wimana, Z., Reynaert, N., Vandenberghe, S., & Flamen, P. (2018). A dosimetry procedure for organs-at-risk in 177Lu peptide receptor radionuclide therapy of patients with neuroendocrine tumours. *Physica medica*, 56, 41-49. doi:10.1016/j.ejmp.2018.11.001

https://dipot.ulb.ac.be/dspace/bitstream/2013/283501/4/doi_267128.pdf

Karfis, I., Marin, G., Machiels, G., Hendlisz, A., & Flamen, P. (2018). Acute Pancreatitis Following Peptide Receptor Radionuclide Therapy: An Unusual Adverse Event. *Clinical nuclear medicine*, 43(7), e232-e233. doi:10.1097/RLU.0000000000002118

Lemaire, M., Lucidi, V., Bouazza, F., Katsanos, G., Vanderlinden, B., Levillain, H., Delatte, P., Garcia, C., Vouche, M., Gomez-Galdon, M., Demetter, P., Deleporte, A., Hendlisz, A., Flamen, P., & Donckier De Donceel, V. (2018). Selective internal radiation therapy (SIRT) before partial hepatectomy or radiofrequency destruction for treatment of hepatocellular carcinoma in cirrhotic patients: a feasibility and safety pilot study. *HPB*, 20(7), 641-648. doi:10.1016/j.hpb.2018.01.006

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Alhamada, H., Simon, S., Philippon, C., Vandekerckhove, C., Jourani, Y., Pauly, N., Dubus, A., & Reynaert, N. (2018). Shielding disk position in intra-operative electron radiotherapy (IOERT): A Monte Carlo study. *Physica medica*, 51, 1-6. doi:10.1016/j.ejmp.2018.05.023

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Wagner, A., Jourani, Y., Crop, F., Lacornerie, T., Dubus, F., Rault, E., Comte, P., Laffarguette, J., Sarrazin, T., & Reynaert, N. (2018). Abstract ID: 222 Clinical implementation of a Monte Carlo based QA platform for validation of Tomotherapy and

Cyberknife treatment plans. *Physica medica : PM : an international journal devoted to the applications of physics to medicine and biology : official journal of the Italian Association of Biomedical Physics (AIFB)*, 45, S3-S4. doi:10.1016/j.ejmp.2017.11.030

 https://dipot.ulb.ac.be/dspace/bitstream/2013/289614/1/Elsevier_273241.pdf

Reynaert, N., Crop, F., Sterpin, E., Kawrakow, I., & Palmans, H. (2018). On the conversion of dose to bone to dose to water in radiotherapy treatment planning systems. *Physics and Imaging in Radiation Oncology*, 5, 26-30. doi:10.1016/j.phro.2018.01.004

 https://dipot.ulb.ac.be/dspace/bitstream/2013/330517/1/doi_314161.pdf

Participations à des congrès et colloques internationaux

2020

Gilis, N., Doyen, A. A., Delpierre, I., Simon, S., Martinive, P., De Witte, O., & Lefranc, F. (2020). *Is Gamma Knife radiosurgery suitable for medically refractory cluster headache?* Poster présenté à la conférence Annual scientific meeting of the Belgian Society of Neurosurgery (12-09-2020: Leuven).

Participation aux jurys de thèse

2020

Renier, C. (2020). *Etude comparée des différents systèmes d'immobilisation en radiochirurgie cérébrale* (Thèse doctorale non-publiée). Université libre de Bruxelles, Faculté de Médecine – Sciences biomédicales, Bruxelles.

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/313241/4/These.pdf>

 <https://dipot.ulb.ac.be/dspace/bitstream/2013/313241/3/Tabledesmatieres.pdf>

 https://dipot.ulb.ac.be/dspace/bitstream/2013/313241/5/Contrat_Cecile_Renier.pdf