



Overview peer reviewed scientific publications of the Belgian Cancer Registry

2024

- 1) Tran T.N., Bouchat J., Peeters M., Berghmans B., Van Cutsem E., Van Hal G., Van Herck K., Hoeck S. **Bleeding and Perforation Complications after Follow-Up Colonoscopies in Faecal Immunochemical Test-Based Colorectal Cancer Screening: Insights from a Retrospective Case-Control Study.** *Gastrointest. Disord.* 2024, 6, 26-48. <https://doi.org/10.3390/gidisord6010003>
- 2) Michalek IM, Martos C, Florentino Luciano Caetano dos Santos FL, Giusti F, Degerlund H, Neamtii L, Taraszkievicz L, Van Eycken L and Visser O. **Advancing data collection and analysis: 2023 revised European Network of Cancer Registries recommendations for standard dataset.** *European Journal of Cancer.* 2024 Volume 199, 113557. <https://doi.org/10.1016/j.ejca.2024.113557>
- 3) Bourgeois J., M. Peacock H, Savoye I., De Gendt C., Leroy R., Silversmit G., et al. **Quality of surgery and treatment and its association with hospital volume: A population-based study in more than 5000 Belgian ovarian cancer patients.** *European Journal of Surgical Oncology* 50 2024 107978, <https://doi.org/10.1016/j.ejso.2024.107978>
- 4) Castanares-Zapatero D., Verleye L, Devos C, Thiry N., Silversmit G., Van Damme N., De Gendt C., Hulstaert F., Neyt M **Survival of patients with unfavorable prognosis cutaneous melanoma with increased use of immunotherapy agents: a population-based study in Belgium.** *International Journal of Dermatology* (2024), <https://doi.org/10.1111/ijd.17046>

2023

- 1) De Troeyer K., Silversmit G., Roskamp M., Truyen I., Van Herck K., et al... Verdoodt F., and De Schutter H. **The effect of the Flemish breast cancer screening program on breast cancer-specific mortality: A case-referent study.** 2023 *Cancer Epidemiology* 82 102320 <https://doi.org/10.1016/j.canep.2022.102320>
- 2) Tran T. N., Hoeck S., De Schutter H., Janssens S., Peeters M., Van Hal G. **The impact of a six-year existing screening programme using the faecal immunochemical test in Flanders (Belgium) on colorectal cancer incidence, mortality and survival: A population-based study.** 2023 *Int. J. Environ. Res. Public Health* 20, 1654 <https://doi.org/10.3390/ijerph20021654>
- 3) Neyt M., Devos C., Thiry N., Silversmit G., De Gendt C., Van Damme N., et al. **Belgian observational survival data (incidence years 2004-2017) and expenditure for innovative oncology drugs in twelve cancer indications.** 2023 *Eur. Jour. Canc.* 182:23-37 <https://doi.org/10.1016/j.ejca.2022.12.029>
- 4) Depoorter, V., Vanschoenbeek, K., Decoster, L., De Schutter, H., Debruyne, P. R., De Groof, I., Bron, D., Cornélis, F., Luce, S., Focan, C., et al. **Linking clinical and population-based data in older patients with**



- cancer in Belgium: Feasibility and clinical outcomes.** 2023. *Journal of Geriatric Oncology*, 101428. <https://doi.org/10.1016/j.jgo.2023.101428>
- 5) Vanhauwaert D, Pinson H, Vanschoenbeek K, Dedeurwaerdere F, De Gendt C, Boterberg T, De Vleeschouwer S. **Cancer registration, molecular marker status and adherence to the WHO 2016 classification of pathology reports for glioma diagnosed during 2017-2019 in Belgium.** *Pathobiology*. 2023 Jan 26. <https://doi.org/10.1159/000529320>
 - 6) Verleye L, Castanares-Zapatero D, Devos C, De Gendt C, Silversmit G, Van Damme N, Hulstaert F, Thiry N, Neyt M. **Survival in stage IV ovarian cancer with increased use of debulking surgery and bevacizumab.** *Int J Gynecol Cancer*. 2023 Jan 5:ijgc-2022-003813. <https://doi.org/10.1136/ijgc-2022-003813>
 - 7) Giusti F, Martos C, Trama A, Bettio M, Sanvisens A, Audisio R, Arndt V, Francisci S, Dochez C, Ribes J, Fernández LP, Gavin A, Gatta G, Marcos-Gragera R, Lievens Y, Allemani C, De Angelis R, Visser O, Van Eycken L; ENCR Working Group on Treatment Data Harmonisation. **Cancer treatment data available in European cancer registries: Where are we and where are we going?** *Front Oncol*. 2023 Feb 8;13:1109978. <https://doi.org/10.3389/fonc.2023.1109978>
 - 8) Plichta JK, Thomas SM, Hayes DF, Chavez-MacGregor M, Allison K, de Los Santos J, ...van Eycken E, et al. **Novel Prognostic Staging System for Patients With De Novo Metastatic Breast Cancer.** *J Clin Oncol*. 2023 <https://doi.org/10.1200/JCO.22.02222>
 - 9) Willers N., Neven P. Floris G., Colpaert C., Oldenburger E. et al. De Brabander I., Van Damme N., De Schutter H. **The upgrade risk of B3 lesions to (pre)invasive breast cancer after diagnosis on core needle or vacuum assisted biopsy. A Belgian national cohort study.** 2023 *Clinical Breast Cancer* <https://doi.org/10.1016/j.clbc.2023.03.006>
 - 10) Macq G., Silversmit G., Verdoodt F. and Van Eycken L. **The epidemiology of multiple primary cancers in Belgium (2004-2017): Incidence, proportion, risk, stage and impact on relative survival estimates.** 2023 *BMC Cancer* 23: 349 <https://doi.org/10.1186/s12885-023-10777-7>
 - 11) Demaerel P.G., Leloup A., Brochez L., Van Eycken L., Garmyn M. **Impact of the COVID-19 Pandemic on the Incidence and Thickness of Cutaneous Melanoma in Belgium.** 2023 *Biomedicines* 11(6):1645, <https://doi.org/10.3390/biomedicines11061645>
 - 12) Izci H, Macq G, Tambuyzer T, De Schutter H, Wildiers H, Duhoux FP, et al. **Machine Learning Algorithm to Estimate Distant Breast Cancer Recurrence at the Population Level with Administrative Data.** 2023 *Clin Epidemiol*. 15:559-68, <https://doi.org/10.2147/CLEP.S400071>
 - 13) Depoorter V, Vanschoenbeek K, Decoster L, Silversmit G, Debruyne PR, De Groof I, et al. **Long-term health-care utilisation in older patients with cancer and the association with the Geriatric 8 screening tool: a**



retrospective analysis using linked clinical and population-based data in Belgium. 2023 *The Lancet Healthy Longevity* [https://doi.org/10.1016/S2666-7568\(23\)00081-8](https://doi.org/10.1016/S2666-7568(23)00081-8)

- 14) Depoorter V, Vanschoenbeek K, Decoster L, Silversmit G, Debruyne PR, De Groof I, et al. **End-of-Life Care in the Last Three Months before Death in Older Patients with Cancer in Belgium: A Large Retrospective Cohort Study Using Data Linkage.** *Cancers*. 2023;15(13):3349. <https://doi.org/10.3390/cancers15133349>
- 15) Peacock HM, De Gendt C, Silversmit, Nuyts S, Casselman J, Machiels J-P, Giusti F, van Gool B, Vander Poorten V and Van Eycken L **Stage shift and relative survival for head and neck cancer during the 2020 COVID-19 pandemic: a population-based study of temporal trends.** 2023 *Front. Oncol.* 13:1253968. <https://doi.org/10.3389/fonc.2023.1253968>
- 16) Pinson H, Silversmit G, Vanhauwaert D, Vanschoenbeek K, Kalala Okito JP, De Vleeschouwer S, Boterberg T, De Gendt C. **Epidemiology and survival of adult-type diffuse glioma in Belgium during the molecular era.** *Neuro Oncol* 2023 <https://doi.org/10.1093/neuonc/noad158>
- 17) Savoye I, Silversmit G, Bourgeois J, De Gendt C, Leroy R, Peacock H, Stordeur S, et al. **Association between hospital volume and outcomes in invasive ovarian cancer in Belgium: A population-based study.** 2023 *Eur. Jour. Canc* 195 <https://doi.org/10.1016/j.ejca.2023.113402>
- 18) Vanbraband J., Van Damme N., Silversmit G., De Geyndt A., Bouche G., Jacomen G., de Jonge E., Goffin F., Denys H., Amant F. **Practice patterns, time trends and quality of care of uterine cancer in Belgium: An analysis of the EFFECT database.** *Gynecologic Oncology*. January 2024, volume 180, p. 70-78. Doi: <https://doi.org/10.1016/j.ygyno.2023.11.015>.
- 19) Henau K., Tambuyzer T., Van Gool B., Van Eycken L., Poirel HA. **Epidemiological Trends of Haematological Malignancies in Belgium 2004-2018: Older Patients Show the Greatest Improvement in Survival.** 2023. *Cancers* Sep 1;15(17):4388. <https://doi.org/10.3390/cancers15174388>
- 20) Tambuyzer, T., Vanhauwaert, D., Boterberg, T., De Vleeschouwer, S., Peacock, H. M., Bouchat, J., ... & Van Eycken, L. **Impact of the COVID-19 Pandemic on Incidence and Observed Survival of Malignant Brain Tumors in Belgium.** *Cancers*, 2023: 16(1), 63. <https://doi.org/10.3390/cancers16010063>

2022

- 1) Gorasso V., Silversmit G., Arbyn M., Cornez A., De Pauw R., De Smedt D., Grant I, Wyper G., Brecht Devleeschauwerv B. & Speybroeck N. **The non-fatal burden of cancer in Belgium, 2004–2019: a nationwide registry-based study.** 2022 *BMC Cancer* <https://doi.org/10.1186/s12885-021-09109-4>
- 2) Daneels W., Roskamp M, Macq G, Saadoon EI, De Geyndt A, Offner F. and Poirel HA. **Real-World Estimation of First- and Second-Line Treatments for Diffuse Large B-Cell Lymphoma Using Health Insurance Data: A**



Belgian Population-Based Study. 2022. *Front. Oncol.* 12:824704.
<https://doi.org/10.3389/fonc.2022.824704>

- 3) Soetewey A., Legrand C., Denuit M. and Silversmit G. **Semi-markov modeling for cancer insurance** 2022. *European Actuarial Journal* <https://doi.org/10.1007/s13385-022-00308-2>
- 4) Ding L., Poelheken K., Greuter MJW, Truyen I., De Schutter H. et al. **Overdiagnosis of invasive breast cancer in population-based breast cancer screening: A short- and long-term perspective.** 2022 *Eur J Cancer* 173 (1-9) <https://authors.elsevier.com/sd/article/S0959804922003781>
- 5) Ding L., Greuter MJW., Truyen I., Goossens M., De Schutter H. et al. **Irregular screening participation increases advanced stage breast cancer at diagnosis: A population-based study.** 2022. *The Breast* 65:61-66 <https://doi.org/10.1016/j.breast.2022.07.004>
- 6) Hoeck S., Janssens S., Van Hal G., Van Herck K. **Self-Reported and Objective Impact of the COVID-19 Pandemic on Planning, Compliance and Timeliness of a Diagnostic Colonoscopy after a Positive FIT Screening Result in the Flemish Colorectal Cancer Screening Program.** 2022 *Gastrointestinal Disorders.*; 4(3):129-140. <https://doi.org/10.3390/gidisord4030013>
- 7) Tran T. N., Peeters M., Hoeck S., Van Hal G., Janssens S. and De Schutter H. **Optimizing the colorectal cancer screening programme using faecal immunochemical test (FIT) in Flanders, Belgium from the "interval cancer" perspective.** 2022 *Br J Cancer.* Apr 1; 126(7): 1091–1099. <https://doi.org/10.1038/s41416-021-01694-2>
- 8) Ding L., Greuter M.J.W, Truyen I., Goossens M., Van der Vegt B., De Schutter H., et al. **Effectiveness of Organized Mammography Screening for Different Breast Cancer Molecular Subtypes.** 2022 *Cancers* 14, 4831 <https://doi.org/10.3390/cancers14194831>
- 9) Vanbraband J., Van Damme N., Bouche G., Silversmit G., De Geyndt A., de Jonge E., et al. **Completeness and selection bias of a Belgian multidisciplinary, registration-based study on the Effectiveness and quality of Endometrial Cancer Treatment (EFFECT).** 2022 *BMC Cancer* 22-600 <https://doi.org/10.1186/s12885-022-09671-5>
- 10) Cardoso R, Guo F, Heisser T, De Schutter H., Van Damme N., Nilbert MC et al. **Proportion and stage distribution of screen-detected and non-screen-detected colorectal cancer in nine European countries: an international, population-based study.** *Lancet Gastroenterol Hepatol.* 2022 Aug;7(8):711-723. [https://doi.org/10.1016/S2468-1253\(22\)00084-X](https://doi.org/10.1016/S2468-1253(22)00084-X)
- 11) Cardoso R, Guo F, Heisser T, De Schutter H., Van Damme N., Nilbert MC et al. **Overall and stage-specific survival of patients with screen-detected colorectal cancer in European countries: A population-based study in 9 countries.** *Lancet Reg Health Eur.* 2022 Jul 6;21:100458. <https://doi.org/10.1016/j.lanepe.2022.100458>



- 12) Van Walle L., Silversmit G., Depypere L., Nafteux P., Van Veer H., Van Daele E., Deswysen Y., Xicluna J., Debucquoy A., Van Eycken L., et al. **A population-based study using Belgian cancer registry data supports centralization of esophageal cancer surgery in Belgium.** 2022 *Ann Surg Oncol* Mar;30(3):1545-1553 <https://doi.org/10.1245/s10434-022-12938-7>
- 13) Rodriguez-Loureiro L, Verdoodt F, Lefebvre W, Vanpoucke C, Casas L, Gadeyne S. **Long-term exposure to residential green spaces and site-specific cancer mortality in urban Belgium: A 13-year follow-up cohort study.** 2022 *Environ Int.* 170:107571. <https://doi.org/10.1016/j.envint.2022.107571>
- 14) Izci, H., Punie, K., Waumans, L., Laenen, A., Wildiers, H., Verdoodt, F., Desmedt, C., Ardui, J., Smeets, A., Han, S. N., et al. Correlation of TROP-2 expression with clinical-pathological characteristics and outcome in triple-negative breast cancer. 2022 *Sci Rep* 12, 22498 <https://doi.org/10.1038/s41598-022-27093-y>
- 15) Ssenyonga N, Stiller C, Nakata K, Shalkow J, Redmond S, Bulliard JL, et al. Van Eycken L. CONCORD Working Group. **Worldwide trends in population-based survival for children, adolescents, and young adults diagnosed with leukaemia, by subtype, during 2000-14 (CONCORD-3): analysis of individual data from 258 cancer registries in 61 countries.** 2022 *Lancet Child Adolesc Health.* Jun;6(6):409-431. [https://doi.org/10.1016/S2352-4642\(22\)00095-5](https://doi.org/10.1016/S2352-4642(22)00095-5) Erratum in: *Lancet Child Adolesc Health.* 2022 Jul;6(7):e21. PMID: 35468327.
- 16) Waked B, De Maeyer F, Carton S, Pieter-Jan C, Vandamme T, Verslype C, Demetter P, Borbath I, Van Eycken L, Hoorens A, Geboes K, Van Damme N, Ribeiro S. **Quality of pathology reporting and adherence to guidelines in rectal neuroendocrine neoplasms: a Belgian national study.** 2022 *Acta Clin Belg.* Oct;77(5):823-831. <https://doi.org/10.1080/17843286.2021.1985806>
- 17) Huang L, Jansen L, Verhoeven RHA, Ruurda JP, Van Eycken L, De Schutter H, Johansson J, Lindblad M, Johannesen TB, Zadnik V, Žagar T, Lagarde SM, van de Velde CJH, Schrotz-King P, Brenner H. **Survival trends of patients with non-metastatic gastric adenocarcinoma in the US and European countries: the impact of decreasing resection rates.** 2022 *Cancer Commun (Lond).* Jul;42(7):648-662. <https://doi.org/10.1002/cac2.12318>
- 18) Vanhauwaert D, Pinson H, Sweldens C, Du Four S, Van Eycken L; QINO consortium; De Schutter H, De Vleeschouwer S, Boterberg T. **Quality indicators in neuro-oncology: Review of the literature and development of a new quality indicator set for glioma care through a two-round Delphi survey.** 2022 *J Neurooncol.* Apr;157(2):365-376. <https://doi.org/10.1007/s11060-022-03971-3>
- 19) Girardi F, Matz M, Stiller C, You H, Marcos Gragera R, et al. Van Eycken L.; CONCORD Working Group. **Global survival trends for brain tumors, by histology: analysis of individual records for 556,237 adults diagnosed in 59 countries during 2000-2014 (CONCORD-3).** 2022 *Neuro Oncol.* Nov 10:noac217. <https://doi.org/10.1093/neuonc/noac217>



- 20) Reyn B, Van Eycken E, Louwman M, Henau K, Schreuder K, Brochez L, Garmyn M, Kukutsch NA. **Response to the Comment by Suijkerbuijk et al. 'Survival of stage IV melanoma in Belgium and the Netherlands'**. 2022 *J Eur Acad Dermatol Venereol*. Feb;36(2):e119. <https://doi.org/10.1111/jdv.17666>
- 21) Vener C, Rossi S, Minicozzi P, Marcos-Gragera R, Poirel HA, Maynadié M, et al., Van Eycken E. EURO CARE-6 Working Group. **Clear Improvement in Real-World Chronic Myeloid Leukemia Survival: A Comparison With Randomized Controlled Trials**. 2022 *Front Oncol*. Jul 14;12:892684. <https://doi.org/10.3389/fonc.2022.892684>
- 22) Belkouz A, Van Roessel S, Strijker M, van Dam JL, Daamen L, van der Geest LG, Balduzzi A, Cacciaguerra AB, van Dieren S, Molenaar Q, Groot Koerkamp B, Verheij J, Van Eycken E, et al.; Dutch Pancreatic Cancer Group (DPCG). **Development and external validation of a prediction model for overall survival after resection of distal cholangiocarcinoma**. 2022 *Br J Cancer*. May;126(9):1280-1288. <https://doi.org/10.1038/s41416-021-01687-1>
- 23) Bahadoer RR, Bastiaannet E, Peeters KCMJ, van Eycken E, Verbeeck J, Guren MG, et al. **The survival gap between young and older patients after surgical resection for colorectal cancer remains largely based on early mortality: A EURECCA comparison of four European countries**. 2022 *J Geriatr Oncol*. Jul;13(6):803-812. <https://doi.org/10.1016/j.jgo.2022.04.011>
- 24) Neamțiu L, Martos C, Giusti F, Negrão Carvalho R, Randi G, et al, Van Eycken L; ENCR Steering Committee. **Impact of the first wave of the COVID-19 pandemic on cancer registration and cancer care: a European survey**. 2022 *Eur J Public Health*. Apr 1;32(2):311-315. <https://doi.org/10.1093/eurpub/ckab214>
- 25) Vanthomme K, Roskamp M, De Schutter H, Vandenheede H. **Colorectal cancer incidence and survival inequalities in labour migrants in Belgium during 2004-2013**. 2022 *Sci Rep* Sep 21;12(1):15727. <https://doi.org/10.1038/s41598-022-19322-1>
- 26) Hoeck S, De Schutter H, Van Hal G. **Why do participants in the Flemish colorectal cancer screening program not undergo a diagnostic colonoscopy after a positive fecal immunochemical test?** 2022 *Acta Clin Belg* 77(4):760-766. <https://doi.org/10.1080/17843286.2021.1980675>
- 27) Decallonne B, Snyers B, Elaut N, Peene B, Verbeeck J, Van den Bruel A, De Schutter H. **Combining data to perform population-based observational studies: know your sources. The case of thyroid cancer in Belgium**. 2022 *Arch Public Health* 80(1):77. <https://doi.org/10.1186/s13690-022-00803-8>
- 28) Timmermans L, De Brabander I, Van Damme N, Bleyen L, Martens P, Van Herck K, Thierens H, Bacher K, Depypere H. **Tumour characteristics of screen-detected and interval cancers in the Flemish Breast Cancer Screening Programme: A mammographic breast density study**. *Maturitas*. 2022 Apr;158:55-60. <https://doi.org/10.1016/j.maturitas.2021.12.006>



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- 29) Libânio D, Rodrigues JR, Bento MJ, Ebigbo A, Messman H, Verhoeven RHA, Van Damme N, Bisschops R, Spaander MCW, Dinis-Ribeiro M. **Gastric cancer incidence and mortality trends 2007-2016 in three European countries.** *Endoscopy*. 2022 Jul;54(7):644-652. <https://doi.org/10.1055/a-1673-1118>



- 1) Peacock HM, Tambuyzer T, Verdoodt F, Calay F, Poirel HA, De Schutter H, Francart J, Van Damme N, Van Eycken L. **Decline and incomplete recovery in cancer diagnoses during the COVID-19 pandemic in Belgium: a year-long, population-level analysis.** 2021 *ESMO Open* 6(4) <https://doi.org/10.1016/j.esmoop.2021.100197>
- 2) Izci H, Tambuyzer T, Vandeven J, Xicluna J, Wildiers H, Punie K, Willers N, Oldenburger E, Van Nieuwenhuysen E, Berteloot P, Smeets A, Nevelsteen I, Deblander A, De Schutter H, Neven P, Silversmit* G, Freija Verdoodt* (*Equal contributions). **Cause of death discordance between death certificates and medical files.** 2021 *Archives of Public Health*. <https://doi.org/10.1186/s13690-021-00637-w>
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- 9) Roskamp M, Verbeeck J, Sylvie Gadeyne S, Verdoodt F. and De Schutter H. **Socio-Economic Position, Cancer Incidence and Stage at Diagnosis: A Nationwide Cohort Study in Belgium.** *Cancers* 2021, 13, 933 doi: 10.3390/cancers13050933 <https://doi.org/10.3390/cancers13050933>
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