

Joreintje Mackenbach
Research Associate, Assistant Professor
Epidemiology and biostatistics
APH - Health Behaviours & Chronic Diseases

Research interests

Joreintje Mackenbach is a registered epidemiologist and assistant professor at the Department of Epidemiology and Biostatistics at the Amsterdam Public Health research institute, based at the VU University Medical Center. Joreintje has a background in Health Sciences (Policy & Management and Public Health) and obtained her PhD in 2016 (cum laude) with a thesis on 'obesogenic environments'. She is currently working as a postdoctoral researcher on the upstream determinants of lifestyle behaviours and chronic disease risk.

In 2017, she received a personal research grant from NWO. With this Veni, she will investigate how the food environment influences food choices, and why this may be different for different types of people. In addition, Joreintje is project manager of the Supreme Nudge project, a 5-year project financed by the Dutch Heart Foundation and ZonMw, that uses environmental interventions to improve cardiometabolic health.

Publications

1. **Het Supreme Nudge-project: Preventie van hart- en vaatziekten door aanpassingen in de leefomgeving**
Mackenbach, J.D., Lakerveld, J. & Beulens, J.W.J., Apr 2019, In : Voeding nu. p. 28-30 3 p., 2.
2. **Internal and external predictors of engaging and adhering to physical activity**
Teixeira, P. J., Carraça, E. V. & Mackenbach, J.D., 26 Feb 2019, *APA Handbook of Sport and Exercise Psychology*. Anshel, M. (ed.). Vol. 2.
3. **The association between population density and blood lipid levels in Dutch blood donors**
de Groot, R., Hoenink, J. C., Mackenbach, J. D., den Braver, N. R., Pinho, M. G. M., Brassinga, D., Prinsze, F. J., Timmer, T. C., de Kort, W. L. A. M., Brug, J., van den Hurk, K. & Lakerveld, J., 4 Feb 2019, In : *International Journal of Health Geographics*. 18, 1, p. 3
4. **Comparing Different Residential Neighborhood Definitions and the Association Between Density of Restaurants and Home Cooking Among Dutch Adults**
Matias de Pinho, M.G., Mackenbach, J.D., Charreire, H., Oppert, J. M., Rutter, H., Beulens, J.W.J., Brug, J. & Lakerveld, J., 2019, In : *Nutrients*. p. 1796
5. **Exploring the Relation of Spatial Access to Fast Food Outlets With Body Weight: A Mediation Analysis**
Mackenbach, J. D., Charreire, H. L., Glonti, K., Bárdos, H., Rutter, H., Compernelle, S., de Bourdeaudhuij, I., Nijpels, G., Brug, J., Oppert, J-M. & Lakerveld, J., 2019, In : *Environment and Behavior*. 51, 4, p. 401-430
6. **Socioeconomic and ethnic differences in the relation between dietary costs and dietary quality: the HELIUS study**
Mackenbach, J. D., Dijkstra, S. C., Beulens, J. W. J., Seidell, J. C., Sniijder, M. B., Stronks, K., Monsivais, P. & Nicolaou, M., 2019, In : *Nutrition Journal*. 18, 1, 21.
7. **The Moderating Role of Self-Control and Financial Strain in the Relation between Exposure to the Food Environment and Obesity: The GLOBE Study**
Mackenbach, J. D., Beenackers, M. A., Noordzij, J. M., Groeniger, J. O., Lakerveld, J. & van Lenthe, F. J., 2019, In : *International Journal of Environmental Research and Public Health*. 16, 4, 674.
8. **The Moderating Role of Social Neighbourhood Factors in the Association between Features of the Physical Neighbourhood Environment and Weight Status**
Hoenink, J. C., Lakerveld, J., Rutter, H., Compernelle, S., de Bourdeaudhuij, I., Bárdos, H., Charreire, H., Oppert, J. M. & Mackenbach, J. D., 2019, In : *Obesity Facts*. p. 14-24
9. **What factors explain socioeconomic inequalities in adults' television-related sitting time?**
Mackenbach, J. D., de Groot, R., Lakerveld, J., de Cocker, K., Cardon, G., de Bourdeaudhuij, I. & Compernelle, S., 2019, In : *European Journal of Public Health*. 29, 2, p. 248-254
10. **Exploring absolute and relative measures of exposure to food environments in relation to dietary patterns among European adults**
Pinho, M., Mackenbach, J. D., Oppert, J-M., Charreire, H., Bárdos, H., Rutter, H., Compernelle, S., Beulens, J., Brug, J. & Lakerveld, J., 7 Dec 2018, In : *Public Health Nutrition*. p. 1-11 11 p.
11. **Social, economic and physical environmental contributors to obesity among adults**
Mackenbach, J.D., Lakerveld, J. & Brug, J., 5 Sep 2018, *Handbook of Obesity Treatment*. Wadden, T.A. & Bray, G.A. (eds.). 2nd ed. Guilford Press
12. **Improving cardiometabolic health through nudging dietary behaviours and physical activity in low SES adults: design of the Supreme Nudge project**
Lakerveld, J., Mackenbach, J. D., de Boer, F., Brandhorst, B., Broerse, J. E. W., de Bruijn, G-J., Feunekes, G., Gillebaart, M., Harbers, M., Hoenink, J., Klein, M., Mensink, F., Middel, C., de Ridder, D. T. D., Rutters, F., Sluijs, I., van der Schouw, Y. T., Schuitmaker, T. J., Te Velde, S. J., Velema, E. & 3 others Waterlander, W., Brug, J. & Beulens, J. W. J., 20 Jul 2018, In : *BMC Public Health*. 18, 1, p. 899

13. **Spouses, social networks and other upstream determinants of type 2 diabetes mellitus**
Mackenbach, J. D., den Braver, N. R. & Beulens, J. W. J., Jul 2018, In : *Diabetologia*. 61, 7, p. 1517-1521 5 p.
14. **Lack of interest in physical activity - individual and environmental attributes in adults across Europe: The SPOTLIGHT project**
Carraça, E. V., Mackenbach, J. D., Lakerveld, J., Rutter, H., Oppert, J-M., De Bourdeaudhuij, I., Compennolle, S., Roda, C., Bardos, H. & Teixeira, P. J., Jun 2018, In : *Preventive Medicine*. 111, p. 41-48 8 p.
15. **Contextual correlates of happiness in European adults**
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16. **Exploring the cross-sectional association between outdoor recreational facilities and leisure-time physical activity: the role of usage and residential self-selection**
Mackenbach, J. D., Matias de Pinho, M. G., Faber, E., den Braver, N. R., de Groot, R., Charreire, H., Oppert, J-M., Bárdos, H., Rutter, H., Compennolle, S., De Bourdeaudhuij, I. & Lakerveld, J., 2018, In : *International Journal of Behavioral Nutrition and Physical Activity*.
17. **Local fast-food environment, diet and blood pressure: the moderating role of mastery**
Mackenbach, J. D., Lakerveld, J., Generaal, E., Gibson-Smith, D., Penninx, B. W. J. H. & Beulens, J. W. J., 2018, In : *European Journal of Nutrition*.
18. **Obesogenic environment and obesogenic behaviours**
Lakerveld, J., Mackenbach, J. D., Rutter, H. & Brug, J., 2018, *Advanced Nutrition and Dietetics in Obesity*. Hankey, C. & Whelan, K. (eds.). Wiley
19. **Spatial access to restaurants and grocery stores in relation to frequency of home cooking**
Matias de Pinho, M. G., Mackenbach, J. D., Charreire, H., Oppert, J-M., Bárdos, H., Rutter, H., Compennolle, S., Beulens, J. W. J., Brug, J. & Lakerveld, J., 2018, In : *International Journal of Behavioral Nutrition and Physical Activity*.
20. **Interplay of socioeconomic status and supermarket distance is associated with excess obesity risk: A UK cross-sectional study**
Burgoine, T., Mackenbach, J. D., Lakerveld, J., Forouhi, N. G., Griffin, S. J., Brage, S., Wareham, N. J. & Monsivais, P., 1 Nov 2017, In : *International Journal of Environmental Research and Public Health*. 14, 11, 1290.
21. **Contextual correlates of happiness in European adults - the SPOTLIGHT study**
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22. **Individual and environmental correlates of objectively measured sedentary time in Dutch and Belgian adults**
Van Nassau, F., Mackenbach, J. D., Compennolle, S., De Bourdeaudhuij, I., Lakerveld, J. & Van Der Ploeg, H. P., 1 Oct 2017, In : *PLoS ONE*. 12, 10, e0186538.
23. **Obesogenic environment and obesogenic behaviours**
Lakerveld, J., Mackenbach, J. D., Rutter, H. & Brug, J., 25 Sep 2017, *Advanced Nutrition and Dietetics in Obesity*. Wiley, p. 132-137 6 p.
24. **Objectively measured physical environmental neighbourhood factors are not associated with accelerometer-determined total sedentary time in adults**
Compennolle, S., De Cocker, K., Mackenbach, J. D., Van Nassau, F., Lakerveld, J., Cardon, G. & De Bourdeaudhuij, I., 14 Jul 2017, In : *International Journal of Behavioral Nutrition and Physical Activity*. 14, 1, 94.
25. **Accessibility and Affordability of Supermarkets: Associations With the DASH Diet**
Mackenbach, J. D., Burgoine, T., Lakerveld, J., Forouhi, N. G., Griffin, S. J., Wareham, N. J. & Monsivais, P., 1 Jul 2017, In : *American Journal of Preventive Medicine*. 53, 1, p. 55-62 8 p.
26. **Exploring the mediating role of energy balance-related behaviours in the association between sleep duration and obesity in European adults. The SPOTLIGHT project**
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27. **The Upstream Determinants of Adult Obesity**
Lakerveld, J. & Mackenbach, J., 1 Jul 2017, In : *Obesity Facts*. 10, 3, p. 216-222 7 p.
28. **The mediating role of social capital in the association between neighbourhood income inequality and body mass index**
Mackenbach, J. D., Lakerveld, J., Van Oostveen, Y., Compennolle, S., De Bourdeaudhuij, I., Bárdos, H., Rutter, H., Glonti, K., Oppert, J. M., Charreire, H., Brug, J. & Nijpels, G., 1 Apr 2017, In : *European Journal of Public Health*. 27, 2, p. 218-223 6 p.
29. **Built environmental correlates of cycling for transport across Europe**
Mertens, L., Compennolle, S., Deforche, B., Mackenbach, J. D., Lakerveld, J., Brug, J., Roda, C., Feuillet, T., Oppert, J. M., Glonti, K., Rutter, H., Bardos, H., De Bourdeaudhuij, I. & Van Dyck, D., 1 Mar 2017, In : *Health and Place*. 44, p. 35-42 8 p.

30. **Exploring the relationship between perceived barriers to healthy eating and dietary behaviours in European adults**
Pinho, M. G. M., Mackenbach, J. D., Charreire, H., Oppert, J. M., Bárdos, H., Glonti, K., Rutter, H., Compernelle, S., de Bourdeaudhuij, I., Beulens, J. W. J., Brug, J. & Lakerveld, J., 2017, In : European Journal of Nutrition. p. 1-10 10 p.
31. **Buurtkenmerken bepalen ons overgewicht**
Mackenbach, JD., 23 Dec 2016, In : Sociale vraagstukken.
32. **Lifestyle correlates of overweight in adults: a hierarchical approach (the SPOTLIGHT project)**
Roda, C., Charreire, H., Feuillet, T., Mackenbach, J. D., Compernelle, S., Glonti, K., Bardos, H., Rutter, H., McKee, M., Brug, J., De Bourdeaudhuij, I., Lakerveld, J. & Oppert, J-M., 3 Nov 2016, In : International Journal of Behavioral Nutrition and Physical Activity. 13, 114.
33. **Association between Social Network Characteristics and Lifestyle Behaviours in Adults at Risk of Diabetes and Cardiovascular Disease**
Bot, S. D., Mackenbach, J. D., Nijpels, G. & Lakerveld, J., 31 Oct 2016, In : PLoS ONE. 11, 10, e0165041.
34. **Physical Environmental Correlates of Domain-Specific Sedentary Behaviours across Five European Regions (the SPOTLIGHT Project)**
Compernelle, S., De Cocker, K., Roda, C., Oppert, J-M., Mackenbach, J. D., Lakerveld, J., Glonti, K., Bardos, H., Rutter, H., Cardon, G. & De Bourdeaudhuij, I., 14 Oct 2016, In : PLoS ONE. 11, 10, e0164812.
35. **The associations between domain-specific sedentary behaviours and dietary habits in European adults: a cross-sectional analysis of the SPOTLIGHT survey**
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36. **Understanding how access to fast food outlets is associated with obesity. The SPOTLIGHT project**
Mackenbach, J. D., Lakerveld, J., Brug, J. & Nijpels, G., Aug 2016, In : Diabetologia. 59, p. S144-S144
37. **Mediating role of energy-balance related behaviors in the association of neighborhood socio-economic status and residential area density with BMI: The SPOTLIGHT study**
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38. **The Influence of Urban Land-Use and Public Transport Facilities on Active Commuting in Wellington, New Zealand: Active Transport Forecasting Using the WILUTE Model**
Mackenbach, J. D., Randal, E., Zhao, P. & Howden-Chapman, P., Mar 2016, In : SUSTAINABILITY. 8, 3, 242.
39. **Mismatch between perceived and objectively measured environmental obesogenic features in European neighbourhoods**
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40. **Exploring why residents of socioeconomically deprived neighbourhoods have less favourable perceptions of their neighbourhood environment than residents of wealthy neighbourhoods**
Mackenbach, J. D., Lakerveld, J., van Lenthe, F. J., Bardos, H., Glonti, K., Compernelle, S., De Bourdeaudhuij, I., Oppert, J. -M., Roda, C., Rutter, H., Brug, J. & Nijpels, G., Feb 2016, In : Obesity Reviews. 17, p. 42-52
41. **Interactions of individual perceived barriers and neighbourhood destinations with obesity-related behaviours in Europe**
Mackenbach, J. D., Lakerveld, J., Van Lenthe, F. J., Teixeira, P. J., Compernelle, S., De Bourdeaudhuij, I., Charreire, H., Oppert, J-M., Bardos, H., Glonti, K., Rutter, H., McKee, M., Nijpels, G. & Brug, J., Feb 2016, In : Obesity Reviews. 17, p. 68-80
42. **Neighbourhood social capital: measurement issues and associations with health outcomes**
Mackenbach, J. D., Lakerveld, J., van Lenthe, F. J., Kawachi, I., McKee, M., Rutter, H., Glonti, K., Compernelle, S., De Bourdeaudhuij, I., Feuillet, T., Oppert, J-M., Nijpels, G. & Brug, J., Feb 2016, In : Obesity Reviews. 17, p. 96-107
43. **Neighbourhood typology based on virtual audit of environmental obesogenic characteristics**
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44. **Perceived environmental correlates of cycling for transport among adults in five regions of Europe**
Mertens, L., Compernelle, S., Gheysen, F., Deforche, B., Brug, J., Mackenbach, J. D., Lakerveld, J., Oppert, J-M., Feuillet, T., Glonti, K., Bardos, H. & De Bourdeaudhuij, I., Feb 2016, In : Obesity Reviews. 17, p. 53-61
45. **Psychosocial environment: definitions, measures and associations with weight status - a systematic review**
Glonti, K., Mackenbach, J. D., Ng, J., Lakerveld, J., Oppert, J-M., Bardos, H., McKee, M. & Rutter, H., Feb 2016, In : Obesity Reviews. 17, p. 81-95

46. **Self-defined residential neighbourhoods: size variations and correlates across five European urban regions**
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47. **The relation between sleep duration and sedentary behaviours in European adults**
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48. **Exploring obesogenic environments: The role of environmental factors for obesity-related behaviours and obesity**
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49. **Langer voor de televisie zitten belangrijke risicofactor voor overgewicht**
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50. **Does the importance of dietary costs for fruit and vegetable intake vary by socioeconomic position?**
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51. **Educational differences in the validity of self-reported physical activity**
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52. **Obesity-related behaviours and BMI in five urban regions across Europe: sampling design and results from the SPOTLIGHT cross-sectional survey**
Lakerveld, J., Ben Rebah, M., Mackenbach, J. D., Charreire, H., Compernelle, S., Glonti, K., Bardos, H., Rutter, H., de Bourdeaudhuij, I., Brug, J. & Oppert, J. M., 2015, In : BMJ Open. 5, 10, e008505.
53. **Success and failure factors associated with implementing multi-level interventions**
Stockley, L., Mackenbach, J. D., Fenger Benwell, A., Cowburn, G., Lakerveld, J., Robertson, A. & Foster, C., 2015, SPOTLIGHT.
54. **Exploring the Relation of Harsh Parental Discipline with Child Emotional and Behavioral Problems by Using Multiple Informants. The Generation R Study**
Mackenbach, J. D., Ringoot, A. P., van der Ende, J., Verhulst, F. C., Jaddoe, V. W. V., Hofman, A., Jansen, P. W. & Tiemeier, H. W., 13 Aug 2014, In : PLoS ONE. 9, 8
55. **A RE-AIM evaluation of evidence-based multi-level interventions to improve obesity-related behaviours in adults: a systematic review (the SPOTLIGHT project)**
Compernelle, S., De Cocker, K., Lakerveld, J., Mackenbach, J. D., Nijpels, G., Oppert, J. M., Rutter, H., Teixeira, P. J., Cardon, G. & de Bourdeaudhuij, I., 2014, In : International Journal of Behavioral Nutrition and Physical Activity. 11, 147.
56. **Obesogenic environments: a systematic review of the association between the physical environment and adult weight status, the SPOTLIGHT project**
Mackenbach, J. D., Rutter, H., Compernelle, S., Glonti, K., Oppert, J. M., Charreire, H., de Bourdeaudhuij, I., Brug, J., Nijpels, G. & Lakerveld, J., 2014, In : BMC Public Health. 14, 233.
57. **The SPOTLIGHT virtual audit tool: a valid and reliable tool to assess obesogenic characteristics of the built environment**
Bethlehem, J. R., Mackenbach, J. D., Ben-Rebah, M., Compernelle, S., Glonti, K., Bardos, H., Rutter, H. R., Charreire, H., Oppert, J. M., Brug, J. & Lakerveld, J., 2014, In : International Journal of Health Geographics. 13, 52.
58. **Using remote sensing to define environmental characteristics related to physical activity and dietary behaviours: A systematic review (the SPOTLIGHT project)**
Charreire, H., Mackenbach, J. D., Ouasti, M., Lakerveld, J., Compernelle, S., Ben-Rebah, M., McKee, M., Brug, J., Rutter, H. & Oppert, J. M., 2014, In : Health and Place. 25, p. 1-9
59. **Children's eating behavior, feeding practices of parents and weight problems in early childhood: results from the population-based Generation R Study**
Jansen, P. W., Roza, S. J., Jaddoe, V. W. V., Mackenbach, J. D., Raat, H., Hofman, A., Verhulst, F. C. & Tiemeier, H., 30 Oct 2012, In : International Journal of Behavioral Nutrition and Physical Activity. 9
60. **Relation of Emotional and Behavioral Problems With Body Mass Index in Preschool Children: The Generation R Study**
Mackenbach, J. D., Tiemeier, H., van der Ende, J., Nijs, I. M. T., Jaddoe, V. W. V., Hofman, A., Verhulst, F. C. & Jansen, P. W., Oct 2012, In : Journal of Developmental and Behavioral Pediatrics. 33, 8, p. 641-648
61. **Sustainable prevention of obesity through integrated strategies: The design and methodology of SPOTLIGHT**
Mackenbach, J.D., 2012.

Grants, prizes, awards

APH HBCD Grant Writing Support Grant

Joreintje Mackenbach (Recipient), Joline Beulens (Recipient), S. Coosje Dijkstra (Recipient), Jaap C. Seidell (Recipient) & Maria Matias de Pinho (Recipient), 2019

APH HBCD Project Grant

Joreintje Mackenbach (Recipient) & Maria Matias de Pinho (Recipient), 2019

APH HBCD Project Grant

Joreintje Mackenbach (Recipient), Maria Matias de Pinho (Recipient) & Joline Beulens (Recipient), 2019

nominated for the Young Professional Award

Joreintje Mackenbach (Recipient), 2019

Young Forum Gastein scholarship

Joreintje Mackenbach (Recipient), 2019

KNAW Akademie Colloquium

Joreintje Mackenbach (Recipient), 2018

nominated for the Public Health proefschriftprijs

Joreintje Mackenbach (Recipient), 2018

APH HBCD Project Grant

Joreintje Mackenbach (Recipient), S. Coosje Dijkstra (Recipient) & Mary Nicolaou (Recipient), 2017

EASO New Investigator Public Health Award

Joreintje Mackenbach (Recipient), 2017

IJBNPA Outstanding Reviewer Award

Joreintje Mackenbach (Recipient), 2017

nominated for the ADDRIM Gerritzen Award

Joreintje Mackenbach (Recipient), 2017

nominated for the EASO New Investigators Thesis Award

Joreintje Mackenbach (Recipient), 2017

nominated for the New Scientist Wetenschapstalent

Joreintje Mackenbach (Recipient), 2017

nominated for the Volksgezondheidsprijs

Joreintje Mackenbach (Recipient), 2017

runner-up for the CaRe thesis award

Joreintje Mackenbach (Recipient), 2017

Veni grant

Joreintje Mackenbach (Recipient), 2017

Young Forum Gastein scholarship

Joreintje Mackenbach (Recipient), 2015

Young Forum Gastein scholarship

Joreintje Mackenbach (Recipient), 2014

EMGO+ travel grant

Joreintje Mackenbach (Recipient), 2013

Press/Media

Van suikerbom naar suikertax

Joreintje Mackenbach

31/12/2018

1 item of media coverage

Overgewicht in Nederland

Joreintje Mackenbach

09/02/2018

1 media contribution