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## Education

2010 Ph.d. University of Southern Denmark

2007-2010: Various research visits at Centre for Health Economics, University of York

2001 Visiting Research Student, London School of Economics.

1999 Cand.polit., University of Copenhagen.

1997 Nordplus exchange student Socialøkonomisk Institut, University of Oslo.

## Research areas and selected publications

I have a broad research portfolio within the areas of health economics and applied econometrics. However, my main research area is concerned with the association between patient characteristics on the behaviour and performance of General Practitioners. Below is a selected list of publications.

- 1.Olsen KR. Patient complexity and GPs' income under mixed remuneration. *Health Econ.* 2012, Jun; 21 (6): 619–756
- 2.Olsen KR; Gyrd-Hansen, Dorte ; Sørensen, Torben Højmark ; Kristensen, Troels ; Vedsted, Peter ; Street, Andrew. Organisational determinants of production and efficiency in general practice: a population-based study. *Eur J of Health Econ.* 2013 vol 14, nr. 2, p. 267-276.
- 3.Laudicella M, Olsen KR, Street A. Examining cost variation across hospital departments-a two-stage multi-level approach using patient-level data. *Soc Sci Med.* 2010 Nov;71(10):1872-81.
- 4.Sørensen, T. H. ; Olsen, KR ; Vedsted, Peter. Association between general practice referral rates and patients' socioeconomic status and access to specialised health care: A population-based nationwide study. *Health Policy* , Vol. 92, Nr. 2-3, 2009, s. 180-186.
- 5.Olsen KR, Street A. The analysis of efficiency among a small number of organisations: how inferences can be improved by exploiting patient-level data. *Health Econ.* 2008 Jun;17(6):671-81.

## Articles

Tapager, IW, Rose Olsen, K & Vrangbæk, K 2022, 'Exploring equity in accessing diabetes management treatment: A healthcare gap analysis', *Social Science & Medicine*, vol. 292, 114550. <https://doi.org/10.1016/j.socscimed.2021.114550>

Pedersen, SM, Kruse, M, Zwisler, ADO, Helmark, L, Pedersen, SS & Rose Olsen, K 2021, 'Return to work: Does cardiac rehabilitation make a difference? Danish nationwide register-based study', *Scandinavian Journal of Public Health*. <https://doi.org/10.1177/14034948211062656>

Paaske, L, Sopina, L, Rose Olsen, K, Torgaard Thomsen, C, Eriksen Benros, M, Nordentoft, M & Hastrup, LH 2021, 'The impact of patient-controlled hospital admissions among patients with severe mental disorders on health care cost: A nationwide register-based cohort study using quasi-experimental design', *Journal of Psychiatric Research*, vol. 144, pp. 331-337. <https://doi.org/10.1016/j.jpsychires.2021.10.032>

Bogh, SB, Fløjstrup, M, Nissen, SK, Hanson, S, Bech, M, Johnsen, SP, Kristensen, MR, Laugesen, LE, Søndergaard, J, Folkestad, L, Christensen, EF, Henriksen, DP, Hsia, RY, Graham, CA, Lindskou, TA, Byg, K-E, Søvsø, MB, Laugesen, H, Hallas, P, Mikkelsen, S, Olsen, KR, Thygesen, LC, Gamst-Jensen, H & Brabrand, M 2021, 'Nationwide study on trends in unplanned hospital attendance and deaths during the 7 weeks after the onset of the COVID-19 pandemic in Denmark', *B M J Quality and Safety*, vol. 30, no. 12, pp. 986-995. <https://doi.org/10.1136/bmjqs-2020-012144>

Charles, MH, Thomsen, JL, Christensen, B, Pulleyblank, R, Kongstad, LP & Olsen, KR 2021, 'Use of electronic patient data overview with alerts in primary care increases prescribing of lipid-lowering medications in patients with type 2 diabetes', *Diabetologia*. <https://doi.org/10.1007/s00125-021-05598-x>

Morsø, L, Olsen Rose, K, Schiøttz-Christensen, B, Sowden, G, Søndergaard, J & Christiansen, DH 2021, 'Effectiveness of stratified treatment for back pain in Danish primary care: A randomized controlled trial', *European Journal of Pain (United Kingdom)*, vol. 25, no. 9, pp. 2020-2038. <https://doi.org/10.1002/ejp.1818>

Pulleyblank, R, Laudicella, M & Olsen, KR 2021, 'Cost and quality impacts of treatment setting for type 2 diabetes patients with moderate disease severity: Hospital- vs. GP-based monitoring', *Health policy*, vol. 125, no. 6, pp. 760-767. <https://doi.org/10.1016/j.healthpol.2021.03.009>

Lind, N, Bjerregaard, U, Rose Olsen, K, Hølge-Hazelton, B & Berthelsen, C 2021, 'Hvad karakteriserer hospitalsafdelinger med lav sygeplejerskeomsætning? Et regionalt tværsnitsstudie', *Nordisk Sygeplejeforskning*, vol. 11, no. 2, pp. 167-178. <https://doi.org/10.18261/issn.1892-2686-2021-02-07>

Pedersen, SS, Andersen, CM, Ahm, R, Skovbakke, SJ, Kok, R, Helmark, C, Wiil, UK, Schmidt, T, Olsen, KR, Hjelmberg, J, Zwisler, A-D & Frostholt, L 2021, 'Efficacy and cost-effectiveness of a therapist-assisted web-based intervention for depression and anxiety in patients with ischemic heart disease attending cardiac rehabilitation [eMindYourHeart trial]: a randomised controlled trial protocol', *BMC Cardiovascular Disorders*, vol. 21, no. 1, pp. 20. <https://doi.org/10.1186/s12872-020-01801-w>

Kristensen, T, Rose Olsen, K & Volmar Skovsgaard, C 2020, 'Effects of point-of-care testing in general practice for Type 2 Diabetes patients on ambulatory visits and hospitalizations', *International Journal of Environmental Research and Public Health*, vol. 17, no. 17, 6185, pp. 1-16. <https://doi.org/10.3390/ijerph17176185>

Wiben, A, Skovsgaard, CV, Schiøttz-Christensen, B & Olsen, KR 2020, 'Back disorder incidence and occupation in Denmark: a cross-sectional register-based study', *European Spine Journal*, vol. 29, no. 8, pp. 1860-1869. <https://doi.org/10.1007/s00586-020-06382-y>

Pulleyblank, RW, Mellace, G & Rose Olsen, K 2020, 'Evaluation of an electronic health record system with a disease management program and health care treatment costs for Danish patients with Type 2 Diabetes', *JAMA Network Open*, vol. 3, no. 5, e206603, pp. e206603. <https://doi.org/10.1001/jamanetworkopen.2020.6603>

Jensen, MS, Olsen, KR, Morsø, L, Søndergaard, J & Schiøttz-Christensen, B 2019, 'Does changed referral options affect the use of MRI for patients with low back pain? Evidence from a natural experiment using nationwide data', *BMJ Open*, vol. 9, no. 6, e025921. <https://doi.org/10.1136/bmjopen-2018-025921>

Olsen, KR & Laudicella, M 2019, 'Health care inequality in free access health systems: The impact of non-pecuniary incentives on diabetic patients in Danish general practices', *Social Science and Medicine*, vol. 230, pp. 174-183. <https://doi.org/10.1016/j.socscimed.2019.03.005>

Oxholm, AS, Di Guida, S, Gyrd-Hansen, D & Rose Olsen, K 2019, 'Taking care of high-need patients in capitation-based payment schemes: an experimental investigation into the importance of market conditions', *Applied Economics*, vol. 51, no. 47, pp. 5174-5184. <https://doi.org/10.1080/00036846.2019.1610715>

Morsø, L, Schiøttz-Christensen, B, Søndergaard, J, de Vos Andersen, NB, Pedersen, F, Olsen, KR, Jensen, MS, Hill, J & Christiansen, DH 2018, 'The effectiveness of a stratified care model for non-specific low back pain in Danish primary care compared to current practice: Study protocol of a randomised controlled trial', *Trials*, vol. 19, 315, pp. 315. <https://doi.org/10.1186/s13063-018-2685-5>

Kristensen, T, Waldorff, FB, Nexøe, J, Skovsgaard, C & Rose Olsen, K 2017, 'Variation in Point-of-Care Testing of HbA1c in Diabetes Care in General Practice', *International Journal of Environmental Research and Public Health*, vol. 14, no. 11, 1363. <https://doi.org/10.3390/ijerph14111363>

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Rose Olsen, K, Anell, A, Häkkinen, U, Iversen, T, Ólafsdóttir, T & Sutton, M 2016, 'General practice in the Nordic countries', *Nordic Journal of Health Economics*, vol. 4, no. 1, pp. 56-67. <https://doi.org/10.5617/njhe.2801>

Gyrd-Hansen, D, Rose Olsen, K, Bollweg, K, Kronborg, C, Ebinger, M & Audebert, HJ 2015, 'Cost-effectiveness estimate of prehospital thrombolysis : results of the PHANTOM-S Study', *Neurology*, vol. 84, no. 11, pp. 1090-1097 . <https://doi.org/10.1212/WNL.0000000000001366>

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Kristensen, T, Rose Olsen, K, Sortsø, C, Ejersted, C, Thomsen, JL & Halling, A 2013, 'Resources allocation and health care needs in diabetes care in Danish GP clinics', *Health Policy*, vol. 113 , no. 1-2, pp. 206-215. <https://doi.org/10.1016/j.healthpol.2013.09.006>

Rose Olsen, K, Gyrd-Hansen, D, Sørensen, TH, Kristensen, T, Vedsted, P & Street, A 2013, 'Organisational determinants of production and efficiency in general practice: a population-based study', *European Journal of Health Economics*, vol. 14, no. 2, pp. 267-276. <https://doi.org/10.1007/s10198-011-0368-1>

Mårtensson, S, Hansen, KH, Olsen, KR, Højmark, TB, Petersen, JH & Due, P 2012, 'Does participation in preventive child health care at the general practitioner minimise social differences in the use of specialist care outside the hospital system?', *Scandinavian Journal of Public Health*, vol. 40, no. 4, pp. 316-24. <https://doi.org/10.1177/1403494812449080>

Kristensen, T, Rose Olsen, K, Kilsmark, J, Lauridsen, JT & Møller Pedersen, K 2012, 'Economies of scale and scope in the Danish hospital sector prior to radical restructuring plans', *Health Policy*, vol. 106, no. 2, pp. 120-126. <https://doi.org/10.1016/j.healthpol.2012.04.001>

Gyrd-Hansen, D & Rose Olsen, K 2012, 'Omkostningseffektivitet af børnevacciner bør vurderes i et samfundsperspektiv', *Ugeskrift for Læger*, vol. 174, no. 8, pp. 480-483.

Rose Olsen, K 2012, 'Patient Complexity and GPs' Income under Mixed remuneration', *Health Economics*, vol. 21, no. 6, pp. 619-32. <https://doi.org/10.1002/hev1731>

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- Medin, E, Anthun, KS, Häkkinen, U, Kittelsen, S, Linna, M, Magnussen, J, Rose Olsen, K & Rehnberg, C 2011, 'Cost efficiency of university hospitals in Nordic countries: a cross country study', *European Journal of Health Economics*, vol. 12, no. 6, pp. 509-519. <https://doi.org/10.1007/s10198-010-0263-1>
- Højgaard, B, Rose Olsen, K, Pisinger, C, Tønnesen, H & Gyrd-Hansen, D 2011, 'The potential of smoking cessation programmes and a smoking ban in public places: Comparing gain in life expectancy and cost effectiveness', *Scandinavian Journal of Public Health. Supplement*, vol. 39, no. 8, pp. 785-96. <https://doi.org/10.1177/1403494811421416>
- Laudicella, M, Rose Olsen, K & Street, A 2010, 'Examining cost variation among hospital departments - a two-stage multilevel approach using patient level data', *Social Science & Medicine*, vol. 71, no. 10, pp. 1872-1881.
- Linna, M, Häkkinen, U, Peltola, M, Magnussen, J, Anthun, KS, Kittelsen, S, Ottosen, AR, Olsen, K, Medin, E & Rehnberg, C 2010, 'Measuring cost efficiency in the Nordic hospitals--a cross-sectional comparison of public hospitals in 2002', *Health Care Management Science*, vol. 13, no. 4, pp. 346-57. <https://doi.org/10.1007/s10729-010-9134-7>
- Rose Olsen, K, Højmark Sørensen, T & Gyrd-Hansen, D 2010, 'Sammenhæng mellem produktivitet, listestørrelse, patient- og praksiskarakteristika i almen praksis', *Ugeskrift for læger*, vol. 172, no. 16.
- Rose Olsen, K, Gyrd-Hansen, D, Boegh, A & Hansen, SH 2009, 'GPs as citizens' agents: prescription behavior and altruism', *European Journal of Health Economics (Print Edition)*, vol. 10, no. 4, pp. 399-407.
- Kristensen, T, Rose Olsen, K, Lauridsen, JT & Pedersen, KM 2009, '**En undersøgelse af stordrifts- og samdriftsfordele i det danske sygehusvæsen**', *Nationaløkonomisk tidsskrift*, vol. 147, no. 1, pp. 28-52.
- Sørensen, TH, Rose Olsen, K & Vedsted, P 2009, 'Association between general practice referral rates and patients' socioeconomic status and access to specialised health care: A population-based nationwide study', *Health Policy*, vol. 92, no. 2-3, pp. 180-186.
- Sørensen, TH, Rose Olsen, K & Gyrd-Hansen, D 2009, 'Differences in general practice initiated expenditures across Danish local health authorities: A multilevel analysis', *Health Policy*, vol. 92, no. 1, pp. 35-42.
- Højgaard, B, Rose Olsen, K, Søgaard, J, Gyrd-Hansen, D & Sørensen, TIA 2009, 'Fedmerelaterede sundhedskostninger vurderet ud fra måling af enten BMI eller taljeomkreds: Særpublikation', *Ugeskrift for læger*, vol. 171, no. 43, pp. 3068-3068.
- Højgaard, B, Sørensen, T, Rose Olsen, K, Søgaard, J & Gyrd-Hansen, D 2008, 'Economic costs of abdominal obesity', *Obesity Facts*, vol. 1, no. 3, pp. 146-154.
- Højgaard, B, Gyrd-Hansen, D, Rose Olsen, K, Søgaard, J & Sørensen, T 2008, 'Waist circumference and body mass index as predictors of health costs', *PLoS ONE*, vol. 3, no. 7, pp. e2619.
- Rose Olsen, K, Bojesen, SE, Gerdes, A-MM, Lindorff-Larsen, K & Bernstein, IT 2007, 'Cost-effectiveness of surveillance programs for families at high and moderate risk of hereditary non-polyposis colorectal cancer', *International Journal of Technology Assessment in Health Care*, vol. 23, no. 1, pp. 89-95. <https://doi.org/10.1017/S0266462307051616>
- Rose Olsen, K & Street, A 2007, 'The analysis of efficiency among a small number of organisations: how inference can be improved by exploiting patient-level data', *Health Economics*, vol. 17, no. 6, pp. 671-681.
- Them Kjær, N, Evald, T, Rasmussen, M, Hauschildt Juhl, H, Mosbech, H & Rose Olsen, K 2007, 'The effectiveness of smoking cessation interventions after implementation at national level', *Preventive Medicine*, vol. 45, pp. 12-14.

Rose Olsen, K, Bilde, L, Hauschildt Juhl, H, Them Kjær, N, Mosbech, H, Evald, T, Rasmussen, M & Hiladakis, H 2006, 'Cost-effectiveness of the Danish smoking cessation interventions', *European Journal of Health Economics (Print Edition)*, vol. 7, pp. 266-269.

Rose Olsen, K, Street, A, Rud Svenning, A, Hvenegaard, A & Søgaaard, J 2006, 'Usikkerhed forbundet med opgørelse af relativ produktivitet i sygehussektoren', *Nationaløkonomisk tidsskrift*, vol. 144.

Kürstein, P, Gluud, LL, Willemann, M, Rose Olsen, K, Kjellberg, J, Søgaaard, J & Gluud, C 2005, 'Agreement between reported use of interventions for liver diseases and research evidence in Cochrane systematic reviews', *Journal of Hepatology*, vol. 43, pp. 984-989.

## Other publications

Kristensen, T & Rose Olsen, K 2016, 'Point-of-care testing of HbA1c in diabetes care and preventable hospital admissions: Conference proceeding', Paper presented at Det 38. symposium i anvendt statistik, København, Denmark, 25/01/2016 - 27/01/2016.

Kristensen, T, Rose Olsen, K & Skovsgaard, C 2016, 'Point-of-care testing of HbA1c in diabetes care and preventable hospital admissions', Paper presented at 37th Nordic Health Economists' Study Group meeting, Odense, Denmark, 17/08/2016 - 19/08/2016. <[http://www.sdu.dk/en/om\\_sdu/institutter\\_centre/ccohere/arrangementer/nhesg/full\\_papers](http://www.sdu.dk/en/om_sdu/institutter_centre/ccohere/arrangementer/nhesg/full_papers)>

Kristensen, T, Rose Olsen, K & Halling, A 2012, 'Expenditure variation in primary care delivered in Danish general practice units', Paper presented at Symposium i anvendt statistik 2012, København, Denmark, 23/11/2012 - 25/11/2012.

Rose Olsen, K, Sørensen, TH & Vedsted, P 2010, Kvantitativ analyse af listestørrelse i almen praksis. in J Kjellberg & MS Buch (eds), *Kapacitet i Almen Praksis*. DSI: Dansk Sundhedsinstituti.

## Misc.

Member of Danish Health Econometrics Network 2013 -  
Member of Nordic Hospital Comparison Study Group 2007-2009

Reviewer for:

Health Economics, Medical Care Research and Review, Health Policy, Social Science and Medicine, European Journal of Health Economics, Scandinavian Journal of Primary Health Care, BMC Health Services Research