

Kim Oren Gradel
Department of Clinical Research
KI, OUH, Research unit of Clinical Epidemiology (Odense)
Email: kim.gradel@rsyd.dk

Personal information

Name: Kim Oren Gradel
Born: 29 June 1963, Jerusalem, Israel
Citizenship: Danish
Civil status: living with Joan Børghlum, two children (Jakob, born 1990; Miriam, born 1993)
Hobbies: ornithology, nature, table tennis, woodwork, travelling, trekking, history, lan-guages, saxophone
Information
Main position: Clinical epidemiologist, senior DVM
Center for Clinical Epidemiology, Odense University Hospital
Supplementary position: Associate professor
University of Southern Denmark
Sdr. Boulevard 29, Entrance 216, ground floor
5000 Odense C
Denmark
Phone+45 21 15 80 85
Mobile+45 25 21 20 61
Fax+45 65 91 72 64
E-mail: kim.gradel@rsyd.dk
Web site www.ouh.dk/wm220632
www.kimorengradel.com

Education

Cand. med. vet. (DVM), The Royal Veterinary and Agricultural University, Copenhagen, Denmark, 14 February 1990.
Epidemiology, Ethology, External courses, The Royal Veterinary and Agricultural University, Copenhagen, Denmark, June 1995.
Ph.D., University of Bristol, England, 5 May 2004.

Shorter courses, selected

Microsoft Access, advanced level: Dansk Teknologisk Institut, course no. 12.741, 20-21 March 1997, Århus, DK.
Poultry production: Landbrugets Center for Efteruddannelse, course no. F-1, 14-16 April and 29-30 May 1997, Koldkærgård Landbrugsskole, DK.
Using the computer and managing files, European Computer Skills Card: Århus tekniske Skole, October-November 1998, Århus, DK.
Microsoft Excel, European Computer Skills Card: Århus tekniske Skole, February-March 1999, Århus, DK.
Spatial and Spatio-Temporal Data Analysis in Epidemiology: RAPH & Massey University, 18-21 August 1999, Foulum, DK.
Analysis of High-Dimensionality Epidemiological Data: Nordic Society for Veterinary Epidemiology, 11-13 November 1999, Tune Landboskole, DK.
Academic Writing: Agroforum, Landbrugets Efteruddannelse, 17-19 January and 27-28 March 2000, Tune Landboskole, DK.
Statistics for Microbiologists: Statistics for Industry, UK, 14-16 November 2000, Coventry, UK.
Clinical Research: Aalborg Hospital and Department of Clinical Epidemiology, Aarhus University Hospital, 14-15 September 2004, Løgstør, DK.
Stata Netcourse 151 - an introduction to Stata programming: StataCorp, March-April 2005.
<http://www.stata.com/netcourse/>
Logistic Regression and Survival Analysis in Epidemiologic Research, given by S. Lemeshow and David W. Hosmer, Jr., Department of Clinical Epidemiology, 30 October-3 November 2006, Aarhus, DK.
Questionnaire Surveys: UNI-C, 14-15 April 2010, Copenhagen, Denmark.
Pedagogical course for clinical teachers – module 1, 2, and 3: University of Southern Denmark, 24 May, 6 June, and 14 June 2012, Odense, Denmark.
Stata Netcourse 461 – Introduction to Univariate Time Series with Stata: StataCorp, October-November 2014.
<http://www.stata.com/netcourse/univariate-time-series-intro-nc461/>
Course for PhD Supervisors: University of Southern Denmark, 29-30 October 2014, Odense, Denmark.
Design and manage your projects. University of Southern Denmark, 7-9 January 2020, Odense, Denmark.
Managing the people in your projects. University of Southern Denmark, 31 August-2 September 2020, Odense, Denmark.

Working experience

| Period | Place of work | Position |
|------------------|---|---|
| 1/5/90-31/11/91 | S Outrup Dyrslæger, DK | Assistant DVM in cattle practice |
| 1/12/91-31/1/92 | Vestjyske Slagterier, Esbjerg, DK | Free-lance meat inspection |
| 1/2/92-30/9/92 | Linde Dyrslæger Aps., DK | Assistant DVM in cattle practice |
| 1/10/92-31/10/92 | Various pig abattoirs, DK | Free-lance meat inspection |
| 1/11/92-6/12/92 | Danish Crown, Bjerringbro, DK | Meat inspection, temporary position |
| 7/12/92-31/7/93 | Danish Crown, Horsens, DK | Meat inspection, temporary position |
| 1/8/93-31/8/93 | J.D. Koopmanns, Silkeborg, DK | Free-lance meat inspection |
| 1/9/93-15/9/93 | Danish Crown, Års, DK | Meat inspection, permanent position |
| 16/9/93-31/8/96 | Danish Veterinary and Food Administration | Assistant District Veterinary Officer |
| 1/9/96-29/2/04 | Danish Institute for Food and Veterinary Research | Scientific Assistant |
| 1/3/04-31/12/08 | Aalborg Hospital, DK | Research Assistant |
| 1/1/09- | Odense University Hospital | Clinical epidemiologist, senior DVM |
| 1/9/12-31/5/14 | University of Southern Denmark | Clinical associate professor (supplementary position) |
| 1/6/14- | University of Southern Denmark | Associate professor (supplementary position) |

Qualifications

Epidemiology:

A profound knowledge, including the ability to handle big data sets

Specific areas:

Disease surveillance

Observational studies

Registry-based research

Cohort studies

Case-control studies (including nested case-control studies)

Statistics:

A profound knowledge, including performance of analyses

Specific areas:

Infectious diseases

Microbiological statistics

Parametric and non-parametric univariable analyses

Seasonal variation analyses

Spline regression

Multivariable analyses:

■ Logistic regression (non-conditional, conditional)

■ Time-to-event analyses

Microbiology:

A sound theoretical and practical knowledge of generally applied bacteriology

Specific areas:

Survival of stressed/injured bacteria in organic matter and extra-animal environments

Laboratory models for factors detrimental to quiescent bacteria:

■ disinfectants

■ physical parameters

■ detergents

Minimum inhibitory concentration tests for disinfectants

Use of indicator bacteria in bacteria survival models

Heat treatment field studies

IT:

Very skilled in Access, Epi Info, Excel, Stata, and Word

Skilled in EpiData, Power Point, and Reference Manager

Knowledge of SAS, Winsteps

Languages:

Fluent in oral and written Danish, English, and Hebrew

Basic knowledge of German and French

Research activities

September 96-May 2000:

Surveillance of Salmonella in the Danish poultry sector:

establishment and maintenance of databases

epidemiological elucidation

tracing of infection sources

advice to poultry farmers with persistent Salmonella infections (cleaning, disinfection, rodent control, biosecurity, and sampling)

June 2000-August 2003:Project co-ordinator for cleaning and disinfection projects under the Danish Salmonella Control Programme for Poultry, divided into two subprojects: 1.Development of microbiological monitoring models in broiler houses: assessment of the impact of cleaning and disinfection procedures on Salmonella persistence
2.Heat disinfection as a sanitation method for Salmonella infections in poultry houses Ph.D. studies: Matriculated at Department of Clinical Veterinary Science, Division of Food Animal Science, Langford, University of Bristol, England Ph.D. thesis title: "Disinfection of Salmonella in poultry houses" Defended 2 April 2004, degree assigned 5 May 2004 Member of the working group of the book "Desinfektion i husdyrbruget" (5. ed., 2002, The National Committee for Pig Production, Research & Development, Danish Bacon and Meat Council)

September 2003-February 2004:Project co-ordinator for the innovation law project "Poultry: development of disinfection methods for the elimination of Newcastle Disease, Avian Influenza and Gumboro Disease virus in poultry houses - phase 1 (heat disinfection)"

March 2004-December 2008:Epidemiological registry research in infectious diseases, mainly comprising:•Zoonotic gastrointestinal Salmonella and Campylobacter infections in weak human patients•Bacteraemia: Studies from The North Denmark Bacteremia ResearchDatabase

January 2009-:Epidemiological registry research in infectious diseases, mainly comprising:

- Bacteremia: Participant in the Danish Collaborative Bacteremia Network (DACOBAN), which comprises bacteremia data from three Danish regions with a background population of 1.7 million residents
- Bacteremia: Participant in the multi-national population-based bacteremia surveillance collaborative; attended its introductory meeting on 25-26 February 2010 in Calgary, Canada. The collaborative involves eight regions in four countries in three continents with a combined annual surveillance population of more than nine million residents
- Bacteremia: Associated with the Danish Observational Registry of Infectious Syndromes (DORIS) at Odense University Hospital.
- Antibiotic consumption in pregnancy and childhood and risk of acquiring leukemia in children
- Clostridium difficile in patients on admission to hospital and impact on spread of infection in clinical Wards
- Serum albumin and other biomarkers as acute phase reactants in bacteraemia patients
- Serum albumin and other biomarkers as acute phase reactants in haematological cancer patients
- Antibiotic stewardship and resistance

Teaching

2000:

Course for farmers and contractors on cleaning of animal houses: actual problems in animal houses. Skive (25 February)

2001:

Course for farmers and contractors on cleaning of animal houses: persistent Salmonella infections in broiler houses and information on the heat and disinfection projects under the Danish Salmonella Control Programme for Poultry. Skive (3 March).

2003:

Veterinary and Food Administration, DK, course for DVMs: cleaning and disinfection in the table egg sector. Vejle (9 April).

Veterinary and Food Administration, DK, course for DVMs on cleaning and disinfection of animal houses: heat as a disinfection method in poultry houses infected with Salmonella - a description of methods and results. Vejle (11 November).

Veterinary and Food Administration, DK, course for DVMs on cleaning and disinfection of animal houses: chemical disinfectants commonly used in the poultry sector and their impact on Salmonella. Vejle (11 November).

2004:

Veterinary and Food Administration, DK, course for DVMs on poultry production: cleaning and disinfection - alternative methods. Middelfart (17 March).

2006:

Aalborg Hospital, DK, epidemiology course for physicians specializing in clinical microbiology: clinical epidemiological research in infections with zoonotic gastrointestinal bacteria. Aalborg (26 April).

2009:

Center for Clinical Epidemiology, internal teaching (with Sonja Wehberg): a comparison of statistical ("multiplicative") and biological ("additive") interaction (12 May).

Center for Clinical Epidemiology, internal teaching (with Linda Kærlev): study designs, epi-demiologic surveys, follow-up studies, the randomized study, case-control studies – with examples (15 September).

Center for Clinical Epidemiology, internal teaching (with Maria Iachina): nested case-control studies and risk set sampling, seasonal variation, survival analyses (Cox's regression), time analyses (spline curves) (29 September).

Center for Clinical Epidemiology, internal teaching: registry research exemplified by infection medicine. Registries: Danish National Patient Registry, Danish Cancer Registry, North Jutland Prescription Database, North Jutland Bacteremia Registry, microbiological laboratory registries (Salmonella, Campylobacter), The Danish Civil registration System, biochemical data registries (20 October).

2010:

Center for Clinical Epidemiology, internal teaching: construction of questionnaires – summary from a UNI-C course (22 June).

2011:

Center for Clinical Epidemiology, internal teaching (with Linda Kærlev): are infections a risk factor for the development of leukemia in children? (15 January).

Center for Clinical Epidemiology, internal teaching: consumption of antibiotics and resistant urinary tract infections (15 March).

Center for Clinical Epidemiology, internal teaching: Study designs and association measures (29 November).

Center for Clinical Epidemiology, internal teaching: Bias and confounding (7 December).

2013:

University College Lillebælt, Odense, Denmark: Breast cancer – principles of screening (external lecture, 23 October).

2014:

Center for Clinical Epidemiology, internal teaching: Screening project of *Clostridium difficile*: clarity or disorder? (11 March).

Center for Clinical Epidemiology, internal teaching: PubMed, hints and tricks (23 September).

University College Lillebælt, Odense, Denmark: Breast cancer – principles of screening (external lecture, 10 October).

Center for Clinical Epidemiology, internal teaching: Study designs and association measures (20 October).

Center for Clinical Epidemiology, internal teaching: The Danish National Hospital Registry has low completeness of bacteraemia/bacteraemia-like diagnoses (4 November).

2015:

Center for Clinical Epidemiology, internal teaching (with Henriette Engberg): RKKP quality development project MiBa – Use of microbiological data in clinical quality databases (6 October)

2016:

Center for Clinical Epidemiology, internal teaching (with Bjarne Magnussen): Albumin, C-reactive protein, and haemoglobin in bacteremia patients: prognostic markers and correlations based on longitudinal data (9 February)

Undergraduate students

2012:

Adviser and examiner for medical students' bachelor project (Biomarkers as prognostic predictors in sepsis or bacteremia patients) (February-March).

Adviser and examiner for two medical students' candidate project: "Serum-albumin as prognostic predictor of mortality in adult patients with community-acquired pneumonia" (February-June).

Adviser and examiner for medical student's candidate project: "Et litteratur-studie der undersøger kausaliteten mellem Adhærent-Invasiv *E. coli* (AIEC) og udviklingen af kronisk inflammatorisk tarmsygdom" (February-June).

Adviser and examiner for medical students' bachelor project (Inflammation biomarkers as prognostic or diagnostic predictors in sepsis or bacteremia patients) (September-November).

2013:

Adviser and examiner for medical students' bachelor project (Serum albumin as a prognostic predictor in patients with severe acute infection) (February-April).

Adviser and examiner for medical students' bachelor project (Serum albumin as a prognostic predictor in patients with severe acute infection) (September-October).

2014:

Adviser and examiner for medical students' bachelor project (Serum albumin as a prognostic predictor in patients with severe acute infection) (January-March).

Adviser and examiner for medical students' bachelor project (Biochemical prognostic predictors in patients with an acute condition) (August-October).

2016:

Adviser and examiner for medical student's candidate project: "Serum albumin as a negative acute-phase biomarker: Correlations to other acute-phase biomarkers" [tentative title] (September 2016-February 2017).

2017:

Adviser and examiner for two medical students' candidate project: "C-reactive protein, procalcitonin and ferritin as diagnostic and prognostic markers in patients with haematological malignancies" (February-June).

2018:

Adviser and examiner for medical student's candidate project: "Does the addition of acute-phase biomarkers improve the prognostic ability of SOFA?" (February-June)

Censor for medical student's candidate project (University of Copenhagen): "Subclinical ultrasonically verified carotid atherosclerosis and incident ischemic heart disease, stroke and all-cause mortality: a 20-year follow-up study" (10 August)

2019:

Censor for medical student's candidate project (University of Copenhagen): "Post-concussion syndrome: diagnostic criteria, prevalence and risk factors" (oral examination, 26 February)

Censor for biostatistics and epidemiology, written exam, 52 medical students, Århus University (June)

Ph.d. students

Co-adviser for Ph.d. student, MD, Stig Lønberg Nielsen, matriculated 1 September 2011 at University of Southern Denmark. Defended and passed 5 May 2015. Title: "The incidence and prognosis of patients with bacteremia".

Principal adviser for Ph.d. student, MD, Margrethe Foss Hansen, matriculated 1 July 2012 at University of Southern Denmark: Title: "Surgical treatment for urinary incontinence in women

- Danish nationwide cohort studies". Thesis submitted 9 September 2016.

Co-adviser for Ph.d. student, MD, Karen Husby, matriculated 1 March 2020, University of Copenhagen. Tentative title: "Pelvic organ prolapse surgery and risk of gynecological cancer".

Chairman for the evaluation committee of Katrine Hass Rubin's Ph.d. thesis "The use of risk assessment tools in the clinical management of osteoporosis", University of Southern Denmark, defended 13 November 2013.
Chairman for the evaluation committee of Bjarki Ditlev Djurhuus' Ph.d. thesis "Cholesteatoma in Children – Occurrence and Risk Factors", University of Southern Denmark. Will be defended 25 May 2016.
Assessor for recognition of Raquel Martin Iguacel's Ph.d. project at University of Southern Denmark, entitled "Late HIV diagnosis: Focus on Primary Care and Acquired Immunodeficiency Syndrome-Associated Opportunistic Diseases in Denmark", assessed March 2018.

Dissemination at meetings, symposia, and seminars

1996:

Danish broiler producers, information meetings: the Danish Salmonella Control Programme for Poultry. Kværndrup (24 October), Agerskov (29 October), Tylstrup (31 October), Pårup (4 November)

Danish table egg producers, information meetings: Salmonella in eggs and the Danish Salmonella Control Programme for Poultry. Kolding (5 November), Herlufmagle (6 November), Rønne (7 November), Aalborg (12 November)

1999:

Danish external turkey producers, annual general meeting: Salmonella and Campylobacter in turkeys. Pårup (30 November)

2001:

Dansk Erhvervsfjerkræ, regional meetings: information on the heat and disinfection projects under the Danish Salmonella Control Programme for Poultry. Skalborg (2 January), Pårup (2 January), Herlufmagle (3 January), Christiansfeld (11 January).

Project day for poultry farmers on Salmonella in table egg houses: cleaning and disinfection projects under the Danish Salmonella Control Programme for Poultry. Skejby (25 January).

Landskontoret for Fjerkrærådgivning, inauguration of the poultry clinic: results from the heat disinfection project under the Danish Salmonella Control Programme for Poultry. Skejby (28 May)

2002:

Fagsentret for Fjørfe, Norway: heat treatment of animal houses. Skejby (18 March)

2003:

Dansk Erhvervsfjerkræ, regional meetings: information on results from the heat and disinfection projects under the Danish Salmonella Control Programme for Poultry. Benløse (14 January), Pårup (15 January), Christiansfeld (16 January).

2004:

Veterinary and Food Administration, DK, symposium on the Danish Salmonella Control Programme for Poultry: results from the cleaning and disinfection projects under the Danish Salmonella Control Programme for Poultry. Copenhagen (23 March).

2006:

Danish Infectious Diseases Society, workshop for "active" researchers: antibiotics redeemed from pharmacies by patients with recorded non-typhoid Salmonella compared with the background population. Kerteminde (27 October).

Dansk Selskab for Farmakoepidemiologi, annual meeting: antibiotics redeemed from pharmacies by patients with recorded non-typhoid Salmonella compared with the background population. Odense (16 November).

2007:

Aalborg Hospital, DK, research information meeting for the Department of Clinical Microbiology: what is the impact of number of positive blood bottles in a blood culture set on the patients? Aalborg (25 June).

2008:

Talk given to staff from Kimron Veterinary Institute, Division of Avian Fish Diseases Laboratories, Israel: some studies on Salmonella in chickens and chicken houses in Denmark. Beit Dagan, Israel (7 April).

Talk given to staff from Koret Veterinary School: Salmonella in chickens, their houses, and consumers: excerpts from the Danish farm-to-fork chain. Beit Dagan, Israel (8 April).

Conferences, selected

Gradel, K.O. (without attending), Andersen, J.S., Jorgensen, J.C., Madsen, M. (2000): Comparison of dung samples and sock samples for surveillance of Salmonella in poultry under the Danish Salmonella Control Programme. In Report on the Fifth Workshop Organised by CRL-Salmonella, 18 and 19 September, Community Reference Laboratory for Salmonella, Bilthoven, the Netherlands, pp. 19-20.

Gradel, K.O. (2002): Heat treatment of persistently Salmonella infected poultry houses. In Salmonella and Salmonellosis, May 29-31, ISPAIA, Saint-Brieuc, France, p. 595 (+ poster).

Gradel, K.O., Randall, L.P. (2003): Minimum inhibitory concentrations of and adaptation to five disinfectants commonly used towards Salmonella in the poultry industry. In XI International Congress in Animal Hygiene, 23-27 February, International Society for Animal Hygiene, Mexico City, Mexico, pp. 339-344 (+ 10-minute lecture).

Gradel, K.O. (2003): Heat as a disinfection method for poultry houses persistently infected with Salmonella – an outline of methods and results. In Disinfection in Animal Production – Cleaning and Disinfection Projects under the Danish Salmonella Control Programme for Poultry, with a view to Virus Disinfection, 18 November, Danish Veterinary Institute, Scandinavian Congress Center, Århus, Denmark (manuscript + 30-minute lecture).

Gradel, K.O. (2003): Chemical disinfectants commonly used in the poultry sector and their impact on Salmonella – an outline of methods and results. In Disinfection in Animal Production – Cleaning and Disinfection Projects under the Danish Salmonella Control Programme for Poultry, with a view to Virus Disinfection, 18 November, Danish Veterinary Institute, Scandinavian Congress Center, Århus, Denmark (manuscript + 30-minute lecture).

Gradel, K.O. (2003): Disinfection of housing systems, with special reference to Salmonella. In Nordic Poultry Consultant and Veterinary Conference 2003, 20-22 November, Svensk Fågel, Frösundavik, Stockholm, Sweden (manuscript + 30-minute lecture).

Gradel, K.O., Schønheyder, H.C., Pedersen, L., Sørensen, H.T., Thomsen, R.W., Nørgaard, M., Nielsen, H. (2005): Non-typhoid Salmonella bacteraemia in a Danish county: a population-based prognostic follow-up study. In 15th European Congress of Clinical Microbiology and Infectious Diseases, 2-5 April, Copenhagen, Denmark (poster).

Gradel, K.O. (without attending), Dethlefsen, C., Schønheyder, H.C., Sørensen, H.T., Nielsen, H. (2006): The magnitude of bacteremia is a predictor for long-term mortality in patients hospitalized with non-typhoid salmonellosis. In 46th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC 2006), 27-30 September, San Francisco, CA, USA (poster).

Gradel, K.O., Schønheyder, H.C., Søgaard, M., Dethlefsen, C., Nielsen, H. (2007): Magnitude of bacteraemia predicts one-year mortality. In 25th International Congress of Chemotherapy & 17th European Congress of Clinical Microbiology and Infectious Diseases, 31 March-3 April, Munich, Germany (12 min talk).

Nielsen, H., Hansen, K.K., Gradel, K.O. (without attending), Kristensen, B., Ejlersen, T., Østergaard, C., Schønheyder, H.C. (2007): Invasive campylobacteriosis - epidemiology, clinical characteristics and outcome. A population-based study. In 14th International Workshop on Campylobacter, Helicobacter and Related Organisms, 2-5 September, Rotterdam, the Netherlands (poster).

Gradel, K.O., Kristensen, B., Ejlersen, T., Schønheyder, H.C., Nielsen, H. (2008): Co-infection with zoonotic Campylobacter and Salmonella. In 18th European Congress of Clinical Microbiology and Infectious Diseases, 19-22 April, Barcelona, Spain (12 min talk).

Gradel, K.O., Ejlersen, T., Schønheyder, H.C., Nielsen, H. (2008): Severity of non-typhoid salmonellosis as a predictor of 0-30 and 31-365 day mortality. In 18th European Congress of Clinical Microbiology and Infectious Diseases, 19-22 April, Barcelona, Spain (poster).

Jensen, U.S., Knudsen, J.D., Østergaard, C., Gradel, K.O. (without attending), Frimodt-Møller, N., Schønheyder, H.C. (2008): Recurrent bacteremia – when and which? In 48th Annual ICAAC/IDSA 46th Annual Meeting, 25-28 October, Washington, D.C., USA (poster).

Nielsen, H., Gradel, K.O. (without attending), Nielsen, H.L., Schønheyder, H.C., Kristensen, B., Ejlersen, T. (2009): Increased risk of inflammatory bowel disease after Salmonella or Campylobacter gastroenteritis: a population-based cohort study. In DDW, Digestive Disease Week Meeting, 30 May-4 June, McCormick Place, Chicago, Illinois, USA (oral presentation).

Guldborg, R., Hansen, J.K., Kesmodel, U.S., Kærlev, L., Brostrøm, S., Gradel, K.O. (presenter), Nørgård, B. (2011): Symptoms and quality of life before and after urogynecological surgery for pelvic organ prolapse – an analysis of the Danish Urogynecological Database. In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 28 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Kolmos, H.J. (2011): Antibiotikaforbrug forud for samfundserhvervede urinvejsinfektioner med extended-spectrum β -lactamase (ESBL) Escherichia coli [Antibiotic consumption prior to community-acquired urinary tract infections with extended-spectrum β -lactamase (ESBL) Escherichia coli]. In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 28 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Pedersen, C., Jensen, T.G., Vinholt, P.J., Kolmos, H.J., Lassen, A.T. (2011): Er C-reaktivt protein en uafhængig mortalitetsprædiktør hos voksne bakteræmi-patienter med kendt sepsisgrad? – et DORIS-projekt [Is C-reactive protein an independent mortality predictor in adult bacteremia patients with a known sepsis level? – a DORIS project]. In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 28 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Magnussen, B., Pedersen, C., Jensen, T.G., Vinholt, P.J., Kolmos, H.J., Lassen, A.T. (2012): Albumin som prædiktør for kort- og langtidsmortalitet hos voksne patienter med samfundserhvervet bakteræmi – et DORIS-projekt [Albumin as a predictor of short and longterm mortality in adult patients with community-acquired bacteremia – a DORIS project]. In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 26 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Nielsen, S.L., Pedersen, C., Knudsen, J.D., Østergaard, C., Arpi, M., Jensen, T.G., Kolmos, H.J., Søgaard, M., Lassen, A.T., Schønheyder, H.C., for the Danish Collaborative Bacteraemia Network (DACOBAN) and the Danish Observational Registry of Infectious Syndromes (DORIS) (2015): Seasonal variation of blood stream infection in relation to bacterial agents and acquisition. In 25th European Congress of Clinical Microbiology and Infectious Diseases, 25-28 April, Copenhagen, Denmark (poster).

Gradel, K.O., Vinholt, P.J., Magnussen, B., Pedersen, C., Jensen, T.G., Kolmos, H.J., Lassen, A.T. (2016): The serum albumin level is better than clinical variables to predict the C-reactive protein level in community-acquired bacteraemia patients. In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 28 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Póvoa, P., Garvik, O.S., Ljungdahl, P.M., Gram-Hansen, P., Lassen, A.T., Jensen, T.G., Kolmos, H.J., Pedersen, C., Nielsen, S.L., Vinholt, P.J., Frederiksen, H. (2018): Do biomarker levels and their changes in adult haematological malignancy patients mainly reflect infectious episodes and what is their prognostic utility? In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 23 April, Fredericia, Denmark (10 min talk).

Gradel, K.O., Póvoa, P., Garvik, O.S., Vinholt, P.J., Nielsen, S.L., Pedersen, C., Jensen, T.G., Ljungdahl, P.S., Lassen, A.T., Frederiksen, H. (2019): Longitudinal trajectory patterns of albumin and CRP levels around diagnosis, relapse, bacteraemia, and death of acute myeloid leukaemia patients. In In Åben Forskerdag, Syddansk Sundhedsvidenskabeligt Forskningsforum, 25 April, Fredericia, Denmark (10 min talk).

Reviewed manuscripts for

Acta Obstetrica et Gynecologica Scandinavica
African Journal of Microbiology Research
American Journal of Infection Control
Archives of Internal Medicine
BMC Infectious Diseases
British Poultry Science
Clinical Epidemiology
Clinical Interventions in Aging
Clinical Microbiology and Infection
Emergency Medicine International
Epidemiology and Infection
FEMS Microbiology Letters
Foodborne Pathogens and Disease
Infection and Drug Resistance
International Journal of Cancer
International Journal of General Medicine
International Journal of Infectious Diseases
Journal of Antimicrobial Chemotherapy
Journal of Infection
Journal of Infection and Public Health
Journal of International Medical Research
Journal of Pediatric Infectious Diseases
Journal of Public Health and Epidemiology
Open Forum Infectious Diseases
Patient Preference and Adherence
PLoS ONE
Therapeutics and Clinical Risk Management
Veterinary Microbiology

Peer-reviewed publications

1. Feld, N.C., Ekeroth, L., Gradel, K.O., Kabell, S., Madsen, M. (2000): Evaluation of a sero-logical Salmonella Mix-Elisa for poultry used in a national surveillance programme. *Epidemiology and Infection*, 125, 263-268.
2. Gradel, K.O., Feld, N.C., Andersen, J.S. (2001): Serological reactions against Salmonella in samples from broiler parent stock with and without preceding colibacillosis: a case-control study. *Avian Diseases*, 45, 486-491.
3. Wedderkopp, A., Gradel, K.O., Jørgensen, J.C., Madsen, M. (2001): Pre-harvest surveillance of *Campylobacter* and *Salmonella* in broilers in Denmark. *International Journal of Food Microbiology*, 68, 53-59.
4. Gradel, K.O., Andersen, J.S., Madsen, M. (2002): Comparisons of sampling procedures and time of sampling for the detection of *Salmonella* in Danish infected chicken flocks raised in floor systems. *Acta Veterinaria Scandinavica*, 43, 21-30.
5. Gradel, K.O., Rattenborg, E. (2003): A questionnaire-based, retrospective field study of persistence of *Salmonella* Enteritidis and *Salmonella* Typhimurium in Danish broiler houses. *Preventive Veterinary Medicine*, 56, 267-284.
6. Gradel, K.O., Corry, J.E.L., Jørgensen, J.C., Andersen, J.S. (2003): Laboratory heating studies with *Salmonella* spp. and *Escherichia coli* in organic matter, with a view to decontamination of poultry houses. *Journal of Applied Microbiology*, 94, 919-928.
7. Bang, D.D., Scheutz, F., Gradel, K.O., Nielsen, E.M., Pedersen, K., Engberg, J., Gerner-Smidt, P., Handberg, K., Madsen, M. (2003): Detection of seven virulence and toxin genes of *Campylobacter jejuni* and *Campylobacter coli* isolates from different sources and Cytolethal Distending Toxin production suggest potential diversity of pathogenic properties among isolates. *Genome Letters*, 2, 62-72.
8. Gradel, K.O., Corry, J.E.L., Jørgensen, J.C., Andersen, J.S. (2004): Monitoring the efficacy of steam and formaldehyde treatment of naturally *Salmonella*-infected layer houses. *Journal of Applied Microbiology*, 96, 613-622.
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