



Centrum för Klinisk Forskning Västmanland



Annual Report 2015





Tame birds long. Wild ones fly.

Elmer Diktonius

Annual Report 2015

Dear reader,

Which metaphor is the most suitable? Are they stacking up – the years, that is – or are they slipping through ones fingers, like sand? There must be more adequate expressions with more positive overtones! We live in a country and in a time of great opportunities, yet we seem to be whining more than ever. So perhaps it is quite in order to see time as something we constantly lose. Before I try to reverse this way of thinking I want to contribute to it, by saying: The CCR-V does not have enough positions for PhD students and postdocs!

We have an incredible influx of PhD students. Next year we will most likely have the pleasure of reaching the number of 30, or more, but we can only feed seven of these. A few of the remaining 23, who do not have doctoral positions, may be financed by external grants. The rest are forced to be recreational PhD students or be financed by on-call overtime compensation. The latter is a possibility only granted to physicians in on-call specialist positions. Currently, we are not able to finance PhD students in professions other than physician, or general practitioner, unless we manage to land extensive external funds. And what do we do with those PhD students who have graduated and are keen to combine clinical work with research? With limited funds for postdoctoral positions we run the risk of losing those people to other counties.

An external analysis shows that the CCR in Gävleborg are now increasing their number of doctoral positions from 28 to 30. There is a big difference in investment between the counties of Västmanland and Gävleborg, but we need not despair, resources are available! The cost of three temporary doctors hired on a full-time basis could support four half-time PhD students and two postdocs, each with 20% research work as part of their employment. These people would generate more work during clinical time alone, than the three temporary hired full-time doctors (3.6 FTE compared to 3.0), and parts of the research, e.g. data collection, is conducted within the clinical work. In addition, there is the bonus of continuity. PhD students carry out their thesis work during eight years. Which “rent-a-doctor” agency could match that? The most wonderful effect is a remarkable increase of skills, spreading like ripples in the water, completely for free! We manufacture clinical time and we manufacture knowledge and expertise. Here, there is no need for time and money to slip through ones fingers like sand! In line with this, a working group with representatives from the administrations and the CCR-V will shortly present a concrete proposal to our politicians.

External funding means we can support some PhD students and generate good research. This year, the newly appointed associate professor Cecilia Åslund and Peter Larm, PhD, have been particularly successful in attracting external funding. Together they have brought in just over five million SEK from the state funding body Forte. Also, Cecilia has received three million SEK from the Svenska Spel Research Council. In addition, the CCR-V has also this year been successful in the allocation of grants from the Regional Research Fund, where eight out of nine applicants received funding. Overall, the fund proved an extremely good deal for the county of Västmanland, far better even than the 2015 top stock market fund. Currently we look forward to the Västmanland County Council setting up a donation fund, based on the solid preparatory work of, amongst others, our associate Bo Simonsson at the Competence Centre for Health!

At the root of every successful research year there is a collection of loyal and hard-working co-workers, called the “base staff”. Their work is performed in silence. Like a good musical accompaniment, it is only noticed if it falls silent. We scientists are spoiled! I would like to say thank you to all members of this group, and a special thanks to Michaela Eriksson, who has taken on new challenges within Västmanland County Council!

Also, thank you to all those managers who have shown their support for the establishment of research agents, and of course an equally big thank you to everyone who has taken on this new task! See you all soon!

We can look back on the good year of 2015 and look forward to the year 2016, which may become just as good, or even better!

31/01/2016

Mats Enlund

Head and Director, Associate Professor and Senior Lecturer

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Background

Centre for Clinical Research, Västmanland County Council - Uppsala University

Clinical research constitutes a fundamental groundwork for a well-functioning health service. The foremost reason why research and scientifically trained staff are needed for any health service is to allow the smooth implementation of new national or international medical discoveries in everyday medical services. Furthermore, they must have the competence to critically evaluate new methods for both the diagnosis and treatment of medical conditions. Health services should be evidence-based. This goal cannot be achieved without staff receiving scientific education.

The County Council has a responsibility for clinical research and development work, as prescribed by law (HSL 1982 763; §26b). The aim of the founding of the Centre for Clinical Research Västerås (CCR-V) was to gather competence regarding scientific methodology, biostatistics, epidemiology, and data management in one place and make it easily accessible for all the staff within the County Council. The role of the CCR-V is to offer support and tutoring of research projects in a creative environment.

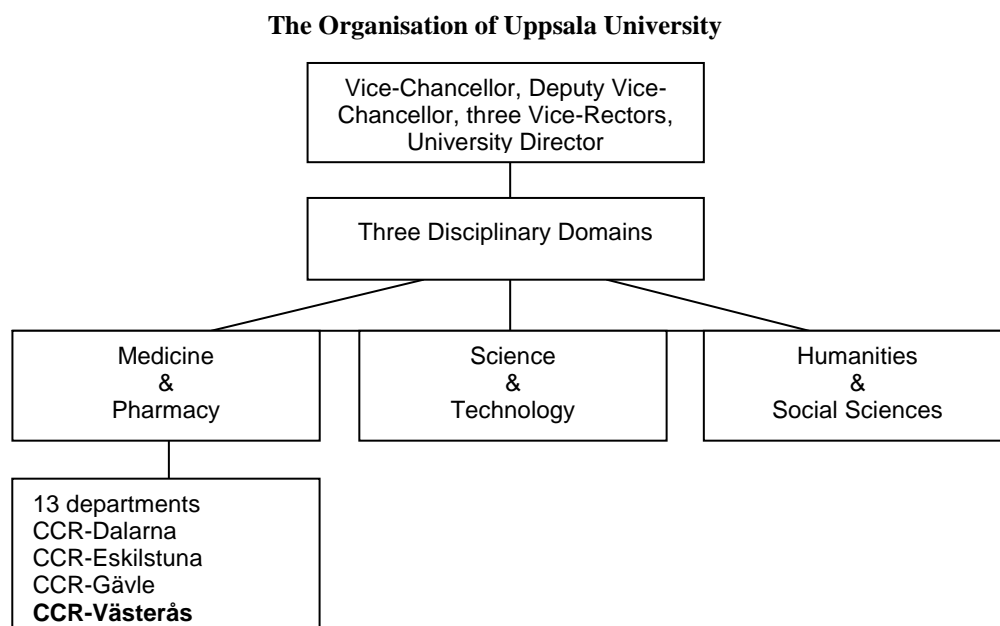
The County Councils' Association together with the Association of Local Authorities have accepted an agreement to work for the implementation of evidence-based knowledge in health services (County Council Executive Board decision, September 2004). Hereby another important role for the CCR-V was created, namely to support staff members in their work with evidence-based medical care. The Centre's target group comprises all employees of the medical service, who are offered the opportunity to conduct or participate in scientific projects within the CCR-V's organisation.

Current organisation

Since 1999 (renewed and updated in 2011), there is a cooperational agreement between Västmanland County Council and Uppsala University which apart from research and training of researchers includes the basic education of medical students. The agreement aims to increase and strengthen research activities within Västmanland County Council. It further intends to improve research and educational facilities by extending the clinical foundations of Uppsala University. The agreement gives us the unique ability to register students at the CCR-V and disputations can take place in Västerås.

The CCR-V is represented on the executive board of the Faculty of Medicine and Pharmacy by its Head and Director, who has been awarded the status of prefect (Fig 1).

Fig 1. The CCR-V's position within the organisation of Uppsala University

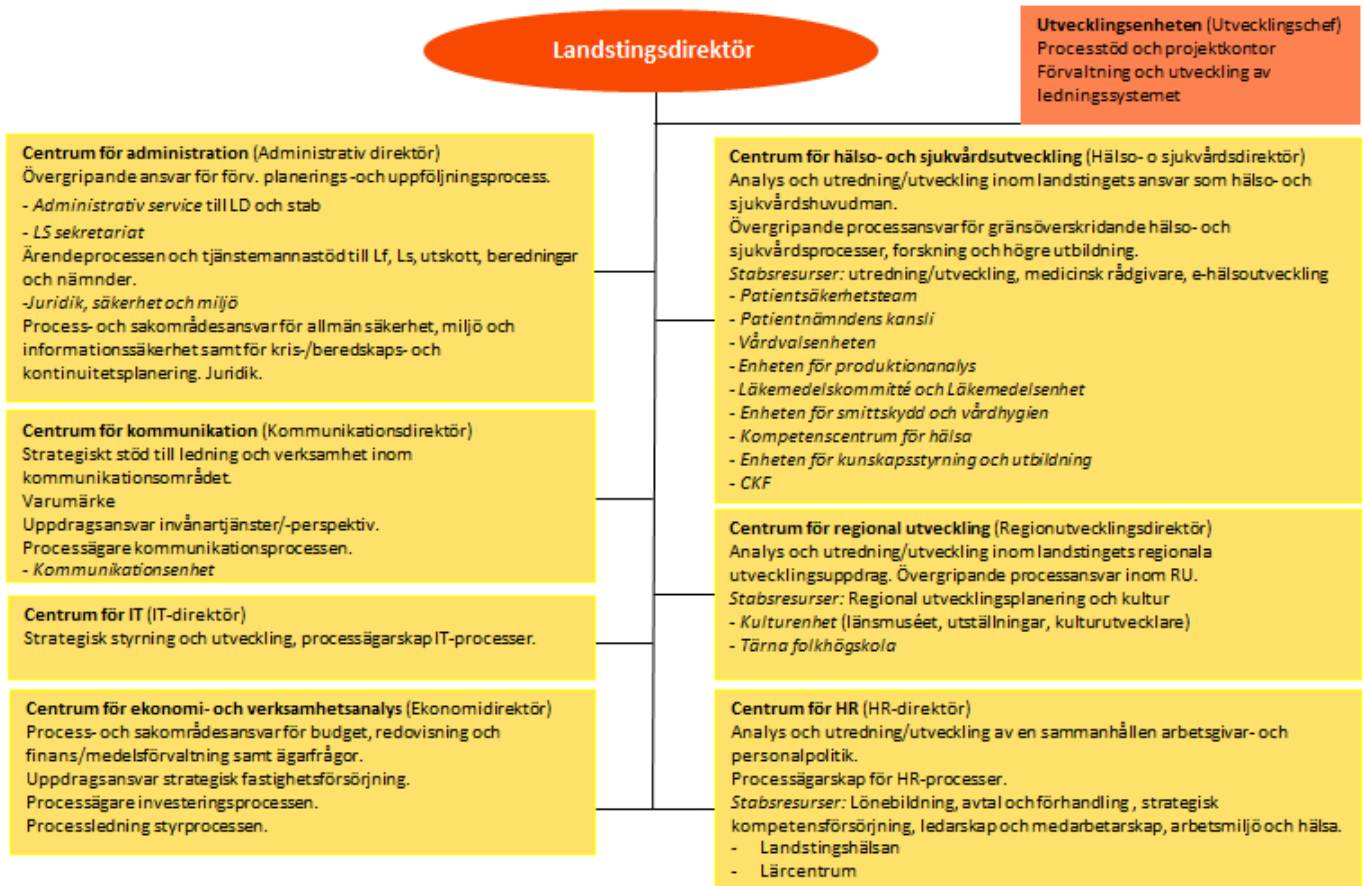


The Organisation of Västmanland County Council

The CCR-V is directly subordinate to the Executive Chief Officer and the Health Care Director (Fig 2).

Fig 2. CCR-V's position within Västmanland County Council

County Board Management/Council Office



The CCR-V Board

According to the instructions for the establishment of the CCR-V proposed in April 1999 by the Vice-Chancellor of Uppsala University (UVF 1999/688), the Centre is to have a board comprising four individuals. Västmanland County Council elects two representatives and the Faculty of Medicine in Uppsala elects another two. The board's role is to support the head of the CCR-V. The instructions were revised in 2011. According to the new instructions Västmanland County Council elects three representatives. Thus, the Board now contains five persons.

Director of the CCR-V was Associate Professor Mats Enlund. Assistant Director of the CCR-V was Professor Håkan Ahlström, Head of the Department of Oncology, Radiology and Clinical Immunology of the Faculty of Medicine.

Board positions were appointed to Associate Professors Elisabet Granstam and Egil Henriksen and Professor Kennet Smedh, as representatives of Västmanland County Council and Professor Frank Arnold Flachskampf, Institute of Medical Sciences, cardiology, and Professor Elisabeth Ståhle, Institute of Surgical Sciences, thoracic surgery, as representatives of Uppsala University. In addition to the five board members defined by the founding instructions, the following were given the right of attendance only: the Administrative Director of the Faculty of Medicine, Uppsala University, the county councillor with responsibility for research, the County Council Executive Chief Officer, the Health Care Director, the heads of the two ward units, the student representative and the Assistant Head of the CCR-V. The present representation of the Board is shown in Figure 3.

Fig 3. The CCR-V Board

Centre for Clinical Research

Uppsala University –Västmanland County Council

Director

Mats Enlund

Assistant Director

Håkan Ahlström

CCR-V Board

Uppsala University

Frank Arnold Flachskampf, Elisabeth Ståhle

Västmanland County Council

Elisabet Granstam, Egil Henriksen, Kennet Smedh

Right of Attendance

Uppsala University

Administrative Director of Medicine and Pharmacy

Västmanland County Council

County Councillor with responsibility for research

Chief Executive Officer, Health Care Director

Heads of Primary Health Care and Västmanland Hospital

Deputy Head of CCR-V

Representative of doctoral students

The CCR-V Board was assembled twice in 2015, the 20th of March and the 23rd of October, during which representatives of Västmanland County Council and Uppsala University discussed mutual questions of an administrative, economic and scientific nature.

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Staff (full- and part-time given as percentages) Personal

- Ass. Prof. Mats Enlund, MD, Head and Director of CCR-V (83%)
- Ulrika Fagerberg, MD, PhD (50%)
- Ann-Christin Johansson, physiotherapist, PhD (10%)
- Ass. Prof. Monica Löfvander, MD (20%)
- Prof. Kent Nilsson, sociologist, Deputy Head of CCR-V (100%)
- Eva Nohlert, DMD, PhD, (75%)
- Ass. Prof. Andreas Rosenblad, biostatistician (100%)
- Ass. Prof. Cecilia Åslund, PhD, behavioural scientist (100%)
- Annika Kärnsund, RN, research assistant (40%)
- Angelica Norling, RN, research assistant (75% from 01/04/2015)
- Philippe Wagner, biostatistician (50%)
- Tony Wiklund, RN, research assistant (100%)
- Maria Dell' Uva Karlsson, centre secretary (90%)
- Mariana Ehn, research secretary (10%)
- Michaela Eriksson, secretary (85% until 11/10/2015)
- Maria Pettersson, secretary (75% until 30/09/2015, then 90%)
- Mattias Rehn, system administrator (100 %)

Part-time employees

- Prof. Leif Bergkvist, MD (40%)
- Ass. Prof. Pär Hedberg, MD (10%)
- Birgitta Kerstis, RN, research assistant (25% until Feb 2015)
- Johan Knutsson, MD, PhD (20% until 30/06/2015, 10% from 01/07/2015)
- Prof. Jerzy Leppert, MD (50%)
- Prof. Göran Nilsson, MD (20%)
- Angelica Norling, RN, research assistant (25% until 31/03/2015)
- Marja-Leena Ojutkangas, RN, research assistant (80%)
- Marie-Louise Södersved Källestedt, RN, PhD (15%)
- Marie-Louise Walker-Engström, biomedical analyst, PhD (20%)
- Margareta Widarsson, reg. midwife, research assistant (25% until Feb 2015)
- Prof. Magnus von Unge, MD (20%)
- Prof. John Öhrvik, biostatistician (15%)

Temporary employees – external funds

- Rebecka Addo, research assistant (100%)
- Megha Bendre, research assistant (100% 01/05/2015 – 31/08/2015)
- Dave Checknita, research assistant (100% 01/08/2015 – 31/10/2015)
- Viktoria Hallström, RN, research assistant (40%)
- Prof. Sheilagh Hodgins, Visiting Professor (50% 01/05/2015 – 31/12/2015)
- Rebecka Husdal, project manager (100% until 31/05/2015)
- Lotta Nilsson, RN, research assistant (50%)
- Elisabeth Rodby-Bousquet, reg. physiotherapist, PhD (50%)
- Lisa Söderström, reg. dietician, research assistant (50%)
- Prof. Åke Tegelberg, DMD (15% until 31/08/2015)
- Elin Vesterlund, RN, research assistant (40%)

External consultation

- Prof. Bengt Starrin, prof, Dept. of Social Sciences, Karlstad University

The following activities should be specifically mentioned:

Creative Lunches 2015

The Centre for Clinical Research Västerås invites all its staff, including all the affiliated PhD students, to enjoy lunch together once or twice a year. An external guest is invited to give a lecture. This guest will not normally be someone who is connected to the CCR-V's research activities. Instead, the aim is to share inspiring and creative thoughts from quite different fields of endeavour.

In 2015, creative lunches were organised on two occasions. On the first occasion, the CCR-V invited the newly appointed County Governor Håkan Wählstedt, who talked about his professional and political background and described the plans he has for his appointment of governor of the County. After the presentation there was a short discussion on the CCR-V's position in regional research as well as future plans.

In October, we were visited by Pär Pettersson, a psychologist with a PhD degree in theories on motivational psychology. During the last five years, Pär P. has worked as a so-called mental coach for the Swedish national ice hockey team. Together with the national team coach Pär Márts he has succeeded in establishing a new way of motivating the players, and getting the national team to a number of championships in both the World Cup and the Olympic Games. The topic was very exciting. Afterwards followed a discussion on how to apply the same way of thinking within healthcare and research.

Annual Planning Meeting 2015

In 2015, we had two planning meetings, one in the spring for base staff, PhD students and postdoctoral researchers and one in the autumn only for base staff. For decisions taken at the two meetings, please see notes in the management system Centuri.

Programme planning meeting 17th March 2015, the First Hotel Plaza in Västerås

- Discussion regarding the process of project affiliation, project development and the work of the assessment group.
- Should doctoral projects undergo a separate assessment process? Differences between internal and external PhD students? Differences in rights and obligations for project affiliation versus PhD student affiliation?
- Introduction to the group work about Researchweb and the application process.
Group work about Researchweb and the application process.
Review of application forms in Researchweb: project affiliation, research time, FoU grants.
Presentation of the group work, discussion.
- The role of the CCR-V in the construction and development of new research groups within the County Council, visions and collaboration. What is the role of the CCR-V in the County Council postdoctoral environment?

Programme planning meeting 30th October 2015, Lejongdals slott, Bro

- Follow-up of the spring planning meeting.
- The doctoral seminars were cancelled during the autumn of 2015 due to poor attendance. Future arrangements of doctoral seminars?
- Clinical research representatives – information from the kick-off meeting. How do we proceed?
- Process work, future base group organisation and future work organisation.

Scientific Writing Course, September 2015, La Casa di Botro, Botricello, Italy

Twice during their PhD studies, students related to the CCR-V are offered the opportunity to participate in a week-long writing class. This year, the course was held at La Casa di Botro, Botricello in Calabria, Italy, on September 8-15. The participants consisted of seven PhD students, ten supervisors/lecturers and two course administrators.



The participating PhD students each have their supervisor present on the course, which provides a unique opportunity for creative work with manuscripts in an inspiring climate, both weather-wise and work-wise. The heat is not only produced by the sun, but also by the work fire within, and the result of this week is usually a number of completed manuscripts and new publications.

The theoretical part consists of the supervisors giving lectures on the different parts of a manuscript: abstract, background, material and methods, results and discussion. After that, the PhD students present their projects to the group, who then give their feedback in the form of comments and tips on presentation skills, structure and scientific content of the project. These discussions are permeated by transparency, positive feedback, scientific rigor and many interesting and fruitful discussions. A new element this year was the participation of Arne Andersson, editor of 'Upsala Journal of Medical Sciences' who gave a lecture about the opinions of an editor and who, during the course of the week, shared useful tips and comments regarding the publication of articles. This was a very popular feature of the course.

During the afternoons, the PhD students and their supervisors spent their time writing manuscripts and discussing scientific matters. Thanks to the amazing work of our two course administrators, who arranged social activities and provided service, lunches and refreshments, the participants could engage in their scientific work completely undisturbed during the daytime.

Evening activities consisted of nice dinners and social events. We had the opportunity to visit different restaurants, from a typical Italian pizzeria to a magical dinner in the small fishing town of Scilla on the coast of Calabria. We also did some very nice tours to the towns of Reggio Calabria and La Castella, and also a visit to the vineyard Russo e Longo. Last but not least, one evening we were invited to dinner in the garden belonging to one of our course administrators, and one evening we were invited to the extremely hospitable Caterina who served a classical Italian buffé in her summer residence.

CCR-V's roles

The CCR-V has the following principal roles:

- Scientific Consultation – Open House
- Scientific Tutoring
- Doctoral Activities
- Research Training
- Seminars and Tutorial Activities
- Research Activities

Scientific consultation – Open House

One of the most highly valued and nationally acknowledged activities of the CCR-V is the so called *Open House*. All the medical staff of Västmanland County Council can come to the *Open House*, discuss their research ideas, and receive competent help in formulating a project plan. Those projects that are deemed to have a solid potential may be affiliated to the CCR-V and are offered help from a distinct supervisor or contact person, as well as a research assistant responsible for data management. During 2015, 17 Open House consultations were held (see Attachment 1).

Scientific Tutoring

The following four levels of tutoring and affiliation to the CCR-V have been established:

- Level 1: PhD projects
- Level 2: Projects of high scientific potential that are expected to be published in international scientific journals
- Level 3: Projects that are scientifically newsworthy and are aimed at publication in a non-peer-reviewed journal
- Level 4: Master's theses and similar, for internal reporting only
Current resources at the CCR-V do not allow supervision of students' theses and essays of lower academic value.

13 of the affiliated projects were completed during the year and 7 new projects were accepted (see Attachments 3 and 4). At the end of 2015 there were a total of 41 registered affiliated projects.

Doctoral Activities

PhD student activities include two main parts: direct tutoring and scientific seminars. At the beginning of the year, 23 PhD students were registered at the CCR-V. Three PhD students have completed their licentiate examination/half-time review and six have successfully defended their doctoral dissertations.

During 2015, eight PhD students were registered at the CCR-V: *Jakob Swanberg*, MD, *Erland Östberg*, MD, *Arnar Thorisson*, MD, *Jonas Selmeryd*, MD, *Mårten Tyrberg*, registered psychologist, *Rebecka Husdal*, Master of Public Health, *Megha Bendre*, Master in Pharmacology and *Dave Checknita*, Master in Neuroscience.

After the new admission of PhD students, the total number at the end of the year was 25 (see Attachment 2).

Half-Time Review and Licentiate Examinations 2015

PhD student Sofia Vadlin, Centre for Clinical Research, Uppsala University, 3rd of November 2015, Västerås: *Problematic gaming in adolescents - What is it and how do we measure it?*

ISBN: 978-91-637-9506-0

Examination Board: Professor Mats Ramstedt, Ass. Professor Per Binde, PhD Jacqueline Borg.

Main supervisor: Professor Kent W Nilsson, CCR-V. Co-supervisor: Ass. Professor Cecilia Åslund, CCR-V, Erika Comasco, the Department of Neuroscience, Uppsala University.

At the licentiate examination, the results of two substudies were presented. Substudy one reported on the development of and the content validity of a screening instrument for measuring symptoms of computer game addiction in adolescents, Gaming Addiction Identification Test (GAIT). Substudy two showed the results of psychometric evaluations of the adolescent version and the parent version of GAIT. The licentiate thesis was approved by the examination board and Sofia Vadlin received her Licentiate of Medicine degree.

PhD student Philippe Wagner, Centre for Clinical Research Västerås, Lund University, 19th of November 2015, Lund: *Identifying risk factors for cancer morbidity reduction in an Orthopaedic setting.*

Opponent: Ass. Professor Mikael Eriksson, statistician Per Broberg .

Main supervisor: Professor Håkan Olsson. Co-supervisor: Professor Lars Lidgren.

At the half-time review, the results of the first two substudies were presented. Substudy one showed the connection between knee replacement surgery and cancer development, which partly could be linked to surgery-related factors. Substudy two reported results on soft tissue tumours which pointed to protective effects linked to endogenous growth hormone levels in women and men, as well as endogenous and exogenous sex hormone levels in women. After a discussion of the work that had been carried out and interpretation of results, basic knowledge of the subject and the remaining two projects, the half-time review was approved without remark.

PhD student Aniruddha Todkar, Centre for Clinical Research, Uppsala University, 30th of November 2015, Uppsala: *Effect of early life stress and ethanol drinking on the hypothalamic pituitary adrenal axis, and the mesocorticolimbic and striatal systems.*

Examination Board: Georgy Bakalkin, Mia Ericson, Håkan Aldskogius.

Main supervisor: Ass. Professor Erika Comasco, Dept of Neuroscience, Uppsala University.

Co-supervisor: Professor Kent Nilsson, CCR-V, Professor Sheilagh Hodgins, Stockholm County Council/Kings College, London, Professor Lars Oreland, Dept of Neuroscience, Uppsala University.

Doctoral Degree 2015



Midwife Margareta Widarsson, Centre for Clinical Research Västerås, Uppsala University. Västerås 28th of January 2015

Journey from Pregnancy to Early Parenthood: Perceived Needs of Support, Fathers' Involvement, Depressive Symptoms and Stress

ISBN: 978-91-554-9119-2

Faculty Opponent: Professor Emeritus Berit Lundman, Umeå University

Examination Board: Professor Marianne Carlsson, Ass. Professor Per Ekstrand, PhD Erica Schytt

Main Supervisor: Ass. Professor Pranee Lundberg, Department of Public Health and Caring Sciences, Uppsala University

Co-supervisor: Professor Tanja Tyden, Department of Public Health and Caring Sciences, Uppsala University, Ass. Professor Gabriella Engström, Christine E. Lynn, College of Nursing, Florida Atlantic University, Boca Raton, Florida, USA

"The right support, at the right time, for the right parent"

Parents want fathers to be more involved in the pregnancy and they want the maternal health service to include fathers more. Parent education should also focus on depressive symptoms and parental stress, to strengthen parents' joint responsibility for the children.

These are some of the conclusions of the thesis that Margareta Widarsson, midwife and paediatric nurse at the Centre for Clinical Research Västerås and Uppsala University, presented on the 28th of January in Västerås. The thesis is based on five studies, two qualitative and three quantitative. Two studies were based on interviews from the Government mission concerning parental support in Sweden in 2008 'Föräldrastöd – en vinst för alla'. Three studies are based on surveys from the project 'Barnhälsovård i tiden' conducted in northern Västmanland until 2008. Previous research has focused mainly on mothers' experiences of pregnancy and parenthood and has not included fathers.

One of the public health objectives in Sweden is to support parents in parenting. In Sweden, parent support is offered, for instance through maternity and child care centres. The thesis confirms previous research showing that parents are not always satisfied with the support offered and that there are knowledge gaps regarding what sort of support parents seek. It is not uncommon for parents to experience stress and depressive symptoms, which may affect the whole family negatively.

The results show that expectant mothers and fathers have individual needs for support and that fathers want to be involved but sometimes do not know what is expected of them. They also describe the need to share experiences with others in the same situation.

During early parenthood mothers experience more depressive symptoms than fathers. Mothers also experience more parental stress than fathers except in the case of 'social isolation', i.e. lack of social contacts except with the partner. There are connections between parental stress and disagreements in the relationship. Mothers experience more unity in their relationships compared to fathers. 'Household chores' is the one area where fathers experience more unity than mothers.

– I am surprised that several mothers and fathers describe that midwives at maternity clinics do not even greet the expectant fathers. Another surprising finding is that only 52% of mothers and 28% of fathers had a role model for their parental role.

Some important conclusions are that the health care service needs to make expectant fathers more visible and be more attentive to parents' specific needs as well as raise awareness regarding gender norms. Margareta summarises: *"The right support, at the right time, for the right parent."*



Registered nurse Birgitta Kerstis, Centre for Clinical Research Västerås, Uppsala University.

Västerås 6th of February 2015

Depressive Symptoms among Mothers and Fathers in Early Parenthood

ISBN: 978-91-554-9125-3

Faculty Opponent: Professor Gunilla Sydsjö, Linköping University

Examination Board: Ass. Professor Annika Lindahl, PhD
Margaretha Magnusson, Professor Lars Wallin

Main Supervisor: Ass. Professor Clara Aarts, Department of Public Health and Caring Sciences, Uppsala University

Co-supervisor: Ass. Professor Birgitta Edlund, Department of Public Health and Caring Sciences, Uppsala University,

Ass. Professor Gabriella Engström, Christine E. Lynn College of Nursing, Florida Atlantic University, Boca Raton, Florida, USA

Almost one in five children has a parent with depressive symptoms. New mothers as well as new fathers can experience depressive symptoms. Depressive symptoms are connected to the parents' relationship with the child, disagreements between partners as well as parental separation.

On the 6th of February, paediatric nurse Birgitta Kerstis defended her doctoral dissertation, entitled 'Depressive Symptoms among Mothers and Fathers in Early Parenthood', in Västerås. The thesis is based on information on parents in Västmanland and Uppsala, spanning from the first week of life to 8 years of age.

– We are proud and grateful that fathers also participated, as most of the research on early parenthood only includes mothers, says Birgitta.

The studies show that 15-18% of the mothers and 5-9% of the fathers assess depressive symptoms during the child's first six months. This means that almost one in five children has at least one parent with depressive symptoms. Other research shows that depressive symptoms in parents increase the risk of negative effects on small children's early development.

The results of the thesis show the connections between depressive symptoms and discord in parents' relationships. Parents with depressive symptoms experience more discord than parents without depressive symptoms and assess a weaker relationship with the child. In addition, there is a correlation between depressive symptoms three months after the child's birth and the risk of parental separation during the first eight years.

– Sometimes it is inevitable to avoid parents separating. Previous research describes the child's health as better when it has a relationship with both parents, which is sometimes hampered by a separation. It is my belief that most parents want to stay together, says Birgitta Kerstis.

– The National Board of Health and Welfare currently recommends screening for depressive symptoms in mothers 6-8 weeks after giving birth, which is performed in many child care centres. In order to help both mothers and fathers with depressive symptoms, it is time to start screening fathers too, says Birgitta.

– The screening of both mothers and fathers is important for the well-being of the entire family as depressive symptoms affect the parents' relationship with the child, unity in their own relationship as well as the risk of separation, says Birgitta Kerstis.



Psychologist Sara Lövenhag, Centre for Clinical Research Västerås, Uppsala University. Västerås 12th June 2015

Substance Use in Swedish Adolescents – The Importance of Co-occurring Psychiatric Symptoms and Psychosocial Risk
ISBN: 978-91-554-9263-2

Faculty opponent: Ass. Professor Stefan Borg, Karolinska Institute

Examination board: Ass. Professor Anders C Håkansson, Ass. Professor Eva Serlachius, Ass. Professor Thomas Lundqvist

Main supervisor: Professor Kent Nilsson, CCR-V

Co-supervisor: Ass. Professor Cecilia Åslund, PhD Peter Larm, CCR-V

Nine out of ten young people with substance abuse have other problems with their mental health

Nine out of ten young people with substance abuse problems also suffer from other psychiatric disorders. This is what Sara Lövenhag, psychologist and PhD student at Uppsala University and the Centre for Clinical Research Västmanland, showed in her doctoral thesis, which she defended in Västerås on the 12th of June.

– I am surprised that the young people who sought treatment for substance abuse reported such substantial psychiatric problems at such a young age. This shows that adolescents with alcohol and drug abuse need to be examined and treated for concurrent psychiatric symptoms, says Sara Lövenhag.

Her thesis "Substance use in Swedish adolescents - The importance of co-occurring psychiatric symptoms and psychosocial risk" is based on four substudies. Two studies are based on reports from teenagers who sought treatment for substance abuse at an addiction treatment centre in Stockholm, and treatment for mental health problems at the Child and adolescent psychiatry unit in Västmanland, respectively. The other studies are based on questionnaires filled out by teenage school children in Västmanland.

Same healthcare needs – different healthcare

– When we compared the adolescents in the addiction treatment centre with the young people in Child and adolescent psychiatry care, it became clear that they were quite similar to each other in terms of healthcare needs, even though they were treated in different institutions using different approaches. The result of the Child and adolescent psychiatry study showed that the likelihood of developing a hazardous use increased the more psychiatric disabilities the patient reported.

According to national guidelines; social services and the psychiatric care should interact regarding treatment, when patients exhibit both addiction and other psychiatric disabilities.

– The results of our study highlight the importance of joint efforts. Preferably, the best option for the patient may be to receive integrated care for all their problems in the same place. The study shows that teenage alcohol and drug abuse is difficult to break. We need to become more aware of the interaction between substance abuse and psychiatric symptoms in order to come to terms with both, says Sara Lövenhag.

ADHD no prominent risk factor

ADHD is often described as a risk factor for substance abuse and addiction. But the results from the study of teenagers in school show that it is usually antisocial behavior, not symptoms of ADHD, that affects alcohol use.

– The ADHD diagnosis has been given an undeserved bad reputation in this regard. It is time to question the link between ADHD and substance abuse.

The doctoral thesis also shows that twice as many school adolescents kept secret that they had used drugs when they first responded to a survey, compared to when they were later interviewed.

– The results indicate that we may miss up to 50 per cent of those adolescents who use drugs. We need to develop our skills when it comes to asking the right questions. A prerequisite for being able to provide the right support is to be aware that the problem exists in the first place, says Sara Lövenhag.



MSc Charlotta Hellström, Centre för Clinical Research Västerås, Uppsala University. Västerås 16th of October 2015

Adolescent Gaming and Gambling in Relation to Negative Social Consequences and Health

ISBN:978-91-554-9316-5

Faculty opponent: Ass. Professor Per Binde, Göteborgs University

Examination board: Professor Per Carlbring, chairman,

Ass. Professor Anders C Håkansson, Ass. Professor Lene Lindberg

Main supervisor: Ass. Professor Cecilia Åslund, CCR-V

Co-supervisor: Professor Kent Nilsson, CCR-V, Professor Jerzy Leppert, CCR-V

Gaming motives more important than gaming time

The expansion of online gaming has given people greater opportunity to play at any time and any place. Gaming does not only bring joy but also negative consequences for some. In her doctoral thesis on gaming and gambling habits among adolescents, Charlotta Hellström writes that the reason for playing should be seen as a more important factor than the actual time spent on playing.

– Gaming time is of course important, but the reason is more critical with regards to the connections with negative social consequences and health problems, says Charlotta Hellström, PhD student at the Centre for Clinical Research Västmanland/Uppsala Universitet and Lecturer in Public Health Sciences at Mälardalen University.

– The results suggest that there are three groups of motivation among young people: "Fun/Social", "Demand/Status" and "Escape". The consequences of gaming are different for the different groups. For example, there is an increased probability of sleep deprivation, poor performance in school and more fights with parents and siblings for those who try to escape reality through gaming. While those who play mainly because it is fun and social can play quite a lot without experiencing any consequences of their playing, says Charlotta Hellström.

The thesis also includes studies on money gambling in adolescents and the results show that individuals with ADHD symptoms have an increased susceptibility for developing gambling problems and that gambling problems increase with age and it may be important to note that this connection exists, says Charlotta Hellström.

Regarding the findings of the fourth study, it is very interesting to note that increased online computer gaming in girls (but not in boys) results in increased gaming frequency regarding money gambling. Perhaps efforts to grasp gambling problems should be designed differently for boys and girls as there seems to be partly different processes forming the basis for unhealthy gaming behavior.

The thesis is the first of its kind focusing on the additive effect of time and motives of gaming/gambling in relation to health effects. It is based on survey data from the 'Liv och Hälsa Ung' studies, including a total of about 7800 boys and girls in Västmanland, aged 13-18 years.

– It is my hope that the research will help parents who want advice regarding when children's gaming/gambling become unhealthy, but also that it will raise awareness among school staff and counsellors and others who meet gaming adolescents in their line of work.



**MD Firas Tarish, Karolinska Institute/ Centre for Clinical Research
Västerås. Västerås 13th of November 2015**

*Study of the mechanisms behind the additive effect of neoadjuvant castration
on radiotherapy for prostate cancer*

ISBN: 978-91-7676-113-7

Faculty opponent: Professor Sten Nilsson, Karolinska Institute

Examination board: Professor Monica Nister, Professor Peter Wiklund,
Professor Stefan Åström.

Main supervisor: Professor Thomas Helleday, Science for Life Laboratory,
Department of Medical Biochemistry and Biophysics, KI

Co-supervisor: Niklas Schultz, Karolinska Institute.

Contact at CCR-V: Mats Enlund, Ass. Professor.

Why combined therapies increase survival in prostate cancer

Researchers at the Karolinska Institute, SciLifeLab and Centre for Clinical Research, Västerås have been able to explain why a combination of castration therapy and radiation therapy increases survival rates for patients with prostate cancer, compared to if they only receive radiation therapy. The findings, which are presented in the journal *Science Translational Medicine*, show that castration therapy impairs the DNA repair machinery of the cancer cells, making them more sensitive to radiation.

It is well known that a combination of hormonal castration therapy and radiation therapy significantly increases survival rates for patients with prostate cancer compared to radiation therapy alone. The reasons have however been unknown up until now.

The new study led by Thomas Helleday at the Karolinska Institute/SciLifeLab, reveals that castration therapy decreases the amounts of proteins essential for DNA repair in cancer cells.

Because radiation therapy works by damaging the DNA, thereby killing the cancer cells, the cells in patients who have undergone castration therapy become more sensitive to radiation therapy because they lose the ability to repair the DNA.

Prostate cancer is the most common cancer in Sweden. The disease represents one third of all cancer cases in men and causes 2400 deaths in the country each year. The understanding of the mechanisms behind increased survival for prostate cancer patients that receive combined therapies will hopefully lead to better and more optimized treatment.

The current study was financed with grants from the Centre for Clinical Research, a collaboration of Västmanland County Council and Uppsala University, Västmanlands cancerfond, AstraZeneca, Svenska Smärtafonden, Percy Falks stiftelse and Henning & Ida Persson research foundation.



MD Johan Carlander, Linköping University/Centre for Clinical Research Västerås. Linköping 20th November 2015

Heat production, nerve function, and morphology following dissection with surgical instruments.

ISBN: 978-91-7685-902-5

Convenor and Chairman of the Dissertation defense: Professor Ola Wahlström.

Examination board: Professor Göran Wallin, Örebro, Professor Håkan Olausson, IKE, Linköping. Substitute: Ass. Professor Simin Mohsini, IKE, Linköping.

Faculty opponent: Ass. Professor Martin Almquist, Lund University

Main supervisor: Ass. Professor Kenth Johansson, Linköping

Co-supervisor: Professor Oliver Gimm, Linköping, Professor Leif Bergkvist, CKF

Even in ancient times, energy from hot irons was used to treat tumours and stop bleedings. During the 19th century, electricity was used for heating the actual instrument before it was used on tissue. At the beginning of the 20th century the first instruments to send electricity into tissue was developed, thus the modern “diathermy” was born. Most surgery today involves a surgical instrument that uses some form of energy to separate and coagulate tissue. The energy from these instruments leads to a heat distribution in the surgical area that can lead to undesirable damage for the patient. For example, after surgery of rectal cancer and prostate cancer approximately half of the patients have problems with urination. Operations of the thyroid gland lead to permanent damage for approximately 2% of patients, involving effects on the voice in various degrees. Of course, these damages are not only due to the surgical instrument, but also depend on the surgical technique and the nature of the operation.

There are different types of surgical instruments. Today, the most common ones use electricity or ultrasonic energy. Knowledge among surgeons can be improved, regarding how these instruments work, which has also been shown in scientific studies. It is not enough to know “that they work”, as the risk for complications increases if the surgeon does not understand the characteristics/limitations of each instrument respectively.

Various forms of energy lead to different kinds of tissue effects, which is the focus of this thesis. Three of the studies in this thesis were carried out using an experimental animal model, and the final study is a national patient registry study, from thyroid surgery.

Study I investigated whether the risk for nerve damage was greater when using electrical diathermy compared to ultrasound dissection instruments. The study used a rat model where the surgical dissection was carried out near a nerve in the rat’s leg using diathermy and ultrasound respectively. We measured nerve potential before and after the trials and collected the nerves for microscopic examination after the performed experiments. The histological preparations were assessed by a pathologist specialising in nerve pathology. The results showed a significant reduction in nerve potential after using electrical diathermy compared to ultrasound technology. The microscopic evaluations also showed a smaller proportion of nerve damage in the ultrasonic group.

Study II was carried out using the same animal model as in study I. Apart from nerve potential and microscopic damage on nerves, this study also measured heat distribution in tissue during procedures. We collaborated with a mathematician and physicist from the institute for measuring calibration in Braunschweig, Germany. During the experiments we used an advanced temperature measurement where the maximum temperature rise, thermal dose and heat distribution in the tissue were measured by electrical diathermy and ultrasonic dissection equipment. The results showed that the maximum temperature and thermal dose were significantly higher after the experiments using electrical diathermy compared to ultrasound technology. The microscopic evaluations of this experiment also showed a smaller proportion of nerve damage in the ultrasound group.

Study III was conducted on the same animal model as in study I and II. In this study, we had the opportunity to work together with a Belgian research group. Through this group, we were able to get access to electron microscopy to assess nerve damage after surgery. As in study II, the temperature in the tissue was also measured as well as the nerve potential before and after the trials. Electron microscopy showed that only a few nerves were damaged, but more damage was seen in the electrical diathermy group. The temperature results were in line with our results from study II, where the electrodiathermy lead to higher values compared to the use of ultrasonic dissection equipment.

Study IV is a multicenter registry study, where most hospitals in Sweden participated by submitting their results after thyroid surgery. The study was conducted with the permission of Registerstyrelsen. In this study we compared the risk of complications when using different forms of energizing dissection equipment with the

traditional 'divide and tie' technique. Iatrogenic nerve damage after these operations constitutes an unusual, but regrettable complication from thyroid surgery. A more common complication is the impact on calcium levels after damage to the parathyroid gland in connection with surgery.

The results showed that these tools are commonly used in connection with thyroid surgery. There were differences between the groups. Ultrasonic dissection led to significantly fewer postoperative complications compared to the electrical modalities, as well as shorter surgery time. The use of expensive 'tissue patches', which reduce the risk of postoperative bleeding, was more extensive in all dissection groups that use energy compared to the divide and tie group. There were few nerve damages in all groups.

Conclusions: The three experimental studies showed a lower risk for collateral heat-related nerve damage after surgery using ultrasonic dissection equipment compared to traditional electrodiathermy, which speaks in favour of the use of ultrasound for operations near the nerve tissue. The clinical registry study showed reduced surgery time, reduced risks of calcium-related complications after surgery using ultrasonic dissection.

Surgeons' knowledge of these heat-generating tools needs to be improved. This is a subject that should be dealt with during surgeons' training, which is not the case at present. This also speaks in favour of ultrasound. The risk of damage to the nerves innervating the vocal cords was low in all groups. Even if the risk was somewhat higher in those groups using electricity, the differences were too small to be able to draw any firm conclusions.

Education and Training

The CCR-V arranged the following courses in 2015:

Introduction to Scientific Methodology and Evidence-Based Medicine, 7.5 credits

Responsible for the course: Johan Knutsson, PhD

Number of occasions: Wednesdays 13.00-17.00 between January and June 2015

Number of participants: 11 (9 participants passed the examination)

Aim: Give an introduction to the work involving planning, implementing, analyzing and reporting projects in research and development with a primarily clinical focus.

Target group: University-educated healthcare professionals.

Previous knowledge: Basic qualifications for University and special qualifications, higher education in the healthcare field (doctor, dentist, nurse, physiotherapist, psychologist, occupational therapist, social worker, dietician).

Contents: Study designs in clinical research. Introduction to statistical methods. Introduction to epidemiological methodology. To find / read / interpret/ write scientific reports. Practical computer-based training in searching for evidence-based information on the Internet. Seminars on scientific articles, evidence-based medicine and critical reviewing of scientific articles. Ethics in clinical research including application procedures to the Regional Ethics Review Board. How to set up a personal register – legal aspects and practical considerations. The scientific report. How to write a project plan – project work including the development of a project plan as well as an oral and written presentation as part of the examination.

Scientific Methodology and Evidence-Based Medicine – A Course for Resident Physicians

Responsible for the course: Eva Nohlert, PhD

Examiner: Mats Enlund, Ass. Prof.

Number of course days: 6 full days plus supervision 5-6 hours between September 7 and November 17, 2015.

Number of participants: 24.

Aim: To develop a medical scientific attitude and offer an introduction to clinical research and development.

Target group: Resident Physicians in Västmanland.

Contents: Scientific methodology, study design, evidence-based medicine, literature search, ethical rules and management of personal data in research, basic biostatistics and epidemiology, basic health economics, how to write a project plan and scientific report, article review, own project with the design of a project plan with an oral and written presentation.

Seminars and Tutorial Activities

Doctors' Meetings

The doctors' meetings, held every first Friday morning of the month (except for July and August), resemble minisymposia with a duration of 45 minutes. The subjects are chosen by the organisers in cooperation with the invited moderators. The aim of the meetings is to reach out to the broad range of doctors working in Västmanland. The number of participants is an estimated 100 individuals per meeting. Members of the programme group for 2015 were: Mats Enlund convener, Jerzy Leppert, Åke Tenerz, Johan Carlander, Camilla Skoglund-Andersson, Margareta Reutervall, Inge Eriksson, Abbas Chabok and Adina Velica.

Location: Samlingssalen, entrance no. 29, Västmanland Hospital, Västerås, Time: 08:00 – 08:45 am

Doctors' meetings 2015

January 9 - "Patient safety – How useful are our reports"

Moderator: Mats Enlund

Participant: Richard Cook

February 6 - *"Watch or compass? Thoughts on clinical practice and research"*

Moderator: Mats Enlund

Participant: Kennet Smedh

March 6 - *"Endocrine tumours – diagnosis and treatment"*

Moderator: Jerzy Leppert

Participant: Britt Skogseid

April 10 - *"New general treatment of cancer, the future way to develop new drugs"*

Moderator: Jerzy Leppert

Participant: Thomas Helleday and Firas Tarish

May 8 - *"Visions of 2025 – what will hospital care be like in Västmanland in 10 years?"*

Moderator: Håkan Wittgren

Participant: Anders Nilsson

June 12 - *"Traditional music soiree"*

Moderator: Jerzy Leppert

Participants: Resident physician Paul Holmér, Foundation doctors Sisi Liao and Klara Matijevic

September 4 - *"Joint preserving hip surgery"*

Moderator: Jerzy Leppert

Participants: Ola Vikerfors and Thomas Eriksson

October 2 - *"Treatment of alcohol addiction – easier than you think!"*

Moderator: Adina Velica

Participant: Sven Wåhlin

November 6 - *"There are an increasing number of elderly and ill – what is the role of the geriatrician, now and onwards?"*

Moderator: Camilla Skoglund Andersson

Participants: Gunilla Brissman and Anne Ekdahl

December 4 - *"Experiences of overseas service"*

Moderator: Abbas Chabok

Participants: Jenny Löfgren, Wilhelm Wallquist and Mitra Sadeghi

Doctoral Seminars

Doctoral seminars, four to five half-day seminars/term, Fridays 08.30 am to 12.00 noon.

Location: Lärcentrum, entrance no. 40. PhD student in charge: Susanne Olofsdotter

Doctoral seminars at the CCR-V 2015

During the spring term, the group worked with statistical analysis based on the book *Discovering Statistics Using IBM SPSS Statistics*, by Andy Field, SAGE Publications Ltd, the reviewing of individual manuscripts and exercises in writing press releases. Furthermore, three pre-disputations were performed.

January 22: Pre-disputations; Birgitta Kerstis and Margaretha Widarsson

February 13: Statistics; factor analysis and logistic regression

March 27: Review of manuscripts; Introduction and methodology section

April 24: Writing a press release; seminar with Kjell Nylund

May 11: Pre-disputation; Sara Lövenhag

The doctoral seminars have been dormant during the autumn term due to a small number of participants. Two pre-licentiate seminars have been conducted.

October 15: Pre-licentiate examination; Sofia Vadlin

December 11: Pre-licentiate examination; Susanne Olofsdotter

Postdoc meetings at the CCR-V

Lunch meeting 12.00 noon to 14.00 pm. Responsible for the meeting: Ulrika L Fagerberg

- March 4** *Information about applications to the Swedish Research Council, h-index, Google Scholar*
October 6 *Communicating research results in the media - Lecturer Kjell Nylund, editor at Centre for Communication, Västmanland Hospital, Västerås*
November 25 *SPSS – syntax for dummies – Lecturer Mattias Rehn, CCR-V*

Regular Education for Personnel and PhD students at the CCR-V

Third Tuesday of every month 10.00-11.00 am

- January 13** Margareta Widarsson "*Journey from pregnancy to early parenthood*"
January 20 Birgitta Kerstis "*Depressive symptoms among mothers and fathers in early parenthood*"
February 17 Margareta Randén Manager Dept. of Oncology "*My current research*"
April 21 Mats Ulfendahl Swedish Research Council "*Success in applying for research funding*"
May 19 Lena Burström and Bengt Starrin "*Grounded theory*"
May 26 Sara Lövenhag "*Substance use in Swedish adolescents*"
- August 18** Landstingshälsan "*Sustainable health*", inspirational lecture
September 22 Andreas Rosenblad "*Piecewise Cox regression: a practical example*"
October 6 Lotta Hellström "*Adolescent gaming and gambling in relation to negative social consequences and health*"
November 3 Firas Tarish "*Study of the mechanisms behind the additive effect of neoadjuvant castration on radiotherapy for prostate cancer*"
November 10 Johan Carlander "*Energy based surgical instrument*"
November 17 Aniruddha Todkar "*Effect of stress and alcohol on the rat brain*"

Miscellaneous seminars

June 12, 2015, 09.15 am -12.00 noon: *Substance abuse and mental health among adolescents and young adults*

Location: Aula, entrance no. 21, Västmanland Hospital, Västerås

Lecturer: Ass. Prof. Thomas Lundqvist, Lund University, Ass. Prof. Anders C Håkansson, Lund University, Ass. Prof. Stefan Borg, Karolinska Institute and Ass. Prof. Eva Serlachius, Karolinska Institute

Moderator: Kent Nilsson, Professor, CCR-V

Target group: Staff, officials and politicians in psychiatry, primary care, youth counselling, social services and schools

Programme

- *Welcome speech and presentation of the Centre for Clinical Research*
- *Young substance user: What characterizes the young substance users? What do they use? How do they get the substances? How are they? How do they relate to their use? How do we help them out of their use? Success factors?*
- *Clinical course, risk behaviour and complications of heavy drug use: Risk behaviour and complications relating to somatic and psychiatric illness, crime and mortality in people with severe drug addiction. Syringe exchange, LARO treatment (medication-assisted treatment for opioid addiction) and new approaches to treatment of addicted patients with complex problems.*
- *Integrated treatment – science and practice: Integrated treatment of patients in need of complex care, who have concurrent mental illness and substance problems. Experience of scientific analysis and implementation of treatment programmes and practical care.*
- *Mental health problems among young people – how can we increase the availability of evidence-based treatment? Mental illness in young people is increasing. How can we increase the availability of evidence-based treatment? Can modern information technology help?*
- *Discussion: Are there differences between boys/men and girls/women which should be taken into account in the assessment and treatment? How does the present health care relate to the 'substance abuse investigation'? What is happening at present, what are the plans of the new government and how do we see the future?*

November 13, 2015, 09.30-11.00 am: *Prostate cancer: diagnosis and therapy*

Location: Samlingssalen, entrance no. 29, Västmanland Hospital, Västerås

Lecturer: Mats Enlund, Ass. Professor and Head of the CCR-V, Peter Wiklund, Professor, Department of Molecular Medicine and Surgery, Karolinska institute, Sten Nilsson, Professor, Department of Oncology-Pathology, Karolinska institute, Thomas Helleday, Professor, Department of Medical Biochemistry and Biophysics, Karolinska institute

Moderator: Professor Thomas Helleday

Target group: Staff, officials and politicians of Västmanland County Council

Programme:

- *Introduction to the CCR-V*
- *Prostate cancer - Anatomy, pathophysiology and surgery*
- *Prostate cancer – diagnosis and therapy*
- *Future treatment of prostate cancer*
- *Discussion*

Research Activities

Study of Atherosclerosis in Västmanland – SAVa

- A study on patients with myocardial infarction and peripheral vascular disease residing in Västmanland.

The single most important cause of premature death is cardiovascular diseases, most of which are conditioned by atherosclerosis disease. Traditionally, extensive research in the area of atherosclerotic manifestations has been performed in Västmanland County Council, e.g. on myocardial infarction, claudication, changes in arterial blood flow in the neck, among others. The study consists of two parts; the first part includes patients with myocardial infarction and the second part those with abnormalities in peripheral blood vessels. In addition, a group of voluntary control individuals is included, matched in age and sex to both study populations. The study is supported by external grants to a great extent, mainly by SparbanksStiftelsen Nya.

The SAVa study features a local management committee consisting of Prof. Jerzy Leppert, convenor, Ass. Prof. Pär Hedberg, Head of Department Anders Hellberg, Ass. Prof. Egil Henriksen, Ass. Prof. Sadettin Karacagil (Istanbul, Turkey), Prof. Göran Nilsson, and Head of Department Åke Tenerz. The external analysis group includes Prof. Anders Hamsten, KI, Prof. Claes-Göran Östenson, KI, Prof. Agneta Siegbahn, UAS, Ass. Prof. Anna Norhammar, KS and Ass. Prof. John Öhrvik, KI as well as members of the local steering committee.

Part 1. Västmanland Myocardial Infarction Study (VaMIS)

Atherosclerosis in peripheral blood vessels is studied in patients with myocardial infarction in collaboration with the departments of cardiology, physiology and vascular surgery, and the chemical laboratory. In the care of myocardial infarction patients, the earlier focus was mainly on atherosclerosis of coronary arteries, and little attention was directed towards atherosclerosis in other blood vessels. The survey of potentially generalised atherosclerosis is a new and exciting research field of great clinical practical relevance. Most probably, diabetes and its pre-stages are strongly associated with generalised atherosclerosis. For each patient with myocardial infarction, a control individual of the same age, sex and municipality is also examined.

In connection with the SAVa study, other research efforts are especially focused on the following areas:

- Sex differences in characteristics of patients with myocardial infarction regarding risk factors, quality of life and peripheral atherosclerosis. Women of the general population live longer than men while both sexes have the same survival after myocardial infarction. This discrepancy appears enigmatic and a scientific explanation is desirable.
- Possible differences between the municipalities of Sala, Surahammar and Västerås in frequency and type of myocardial infarctions. These municipalities show significant differences in structure, e.g. a predominance of rural (Sala) versus urban areas (Västerås), which are interesting to assess with respect to myocardial infarction. Associations between myocardial infarction and the socioeconomic situation in different parts of the municipalities, e.g. level of education and median income, are also included in the project plan.

The inclusion of patients with myocardial infarction into the **VaMIS** study was closed in May 2011. During the study period, 1008 patients remained, who represent 69% of all myocardial infarction patients admitted to the Central Hospital.

Data analysis has been initiated. The study includes 1008 patients with myocardial infarction and 855 sex- and age-matched controls. In 2014, all collected blood samples were transferred to Uppsala biobank at the UCR. Thawing of serum was conducted in order to analyse about 80 cardiovascular biomarkers (Olink Proseek PEA technology). The remaining serum was frozen again, for future analyses. The results of analyses showed some interesting findings, but on closer examination it turned out that some of the results were difficult to interpret and the results had to be further reviewed due to the uncertainty of the method. At the end of the year, we had managed to correct all the results and a couple of articles based on the new data are being written. During 2015, we also implemented a renewed classification of all coronary catheterization and these are now available for further analysis.

The VaMIS material was included as part of Emelie Condén's doctoral thesis *Type D personality: Psychometric Properties of the DS14 and Associations with Ill Health and Coronary Heart Disease in General and Clinical Populations* 2014. The VaMIS material is also included in Fredrik Calais' doctoral work, in a publication from 2014. An additional two articles based on the SAVa material were published in 2015. A presentation of anthropometric data from SAVa was held during the year, at the European Society of Cardiology congress in London.

Part 2. Peripheral Arterial Disease in Västmanland (PADVa)

Heart failure is a common disease causing significant costs for society. Systolic left chamber dysfunction (impaired pump function of the left heart chamber) is the most common cause of symptomatic heart failure. Due to the burden that heart failure implies both for the affected individuals and for society, population screening has been suggested, or alternatively screening of high-risk groups, in order to detect and treat individuals with asymptomatic reduction of left chamber function. Patients with peripheral arterial disease are a potential high-risk population.

The aim of the PADVa study is to assess the prevalence and degree of reduced left chamber function, its association with the extent of arterial disease and its significance for future morbidity and mortality in patients with peripheral arterial disease. Furthermore, the incidence of known and newly diagnosed diabetes and prediabetes will be surveyed in these patients. Inclusion of patients was closed in May 2011. The study has included 452 patients with peripheral arterial disease. So far, four papers have resulted in peer-reviewed publications, including two in 2015. Analyses of the prevalence of diabetes and prediabetes, the presence of undertreated blood pressure and the prognostic significance of ECG changes in the patient group are ongoing. Likewise, statistical analyses are conducted on 80 biomarkers in the blood. These have been analysed at the UCR in Uppsala, in collaboration with Professor Agneta Siegbahn.

Examination of 75-year-old individuals in Västerås

In the year 1997, 1100 individuals born in 1922 were residents of the municipality of Västerås. These individuals all had their 75th birthday during 1997. Of these, 618 were randomly selected and offered an extensive health assessment with special regard to cardiovascular function and morbidity. The invitation was accepted by 223 men and 210 women. This means that 70% of the invited participants participated in the survey.

The examined population is well characterised, as are drop-out individuals. The restriction to one age group results in the disadvantage that results cannot be generalised to other age groups, but has the great advantage that no regard needs be paid to age when analysing different associations. Traditionally, all individuals above 65 years of age have been included in a group termed "elderly". This may be very misleading and hide numerous important details. Individuals 75 years of age represent a group of survivors who reasonably have other risk factors than middle-aged individuals. Patterns of risk factors can be expected to change more and more quickly with the acceleration of mortality towards the end of life, and survivors are fewer and fewer. A strength of our cohort is its inclusion also of older women, which is rare in this context.

The project has resulted in the doctoral thesis of Pär Hedberg, *Left ventricular systolic dysfunction in 75-year-old men and women*. Eighteen peer-reviewed articles have been published.

Westmannia Cardiovascular Risk Factors Study – WICTORY

During the years 1990-1999 Västmanland County Council ran a project called "Health without limits", aiming to reduce mortality due to cardiovascular diseases in the county. All men and women of Västmanland who celebrated their 40th or 50th birthday during the study period were offered a health assessment. The offer was extended to more than 51 000 individuals, of whom more than 34 400 (60%) participated in the examination.

The aim of the WICTORY project is to follow up this health assessment by an analysis of the association between traditional risk factors for cardiovascular disease, measured at the health assessment, and death/cause of death and diagnoses that occurred after the health assessment. Additional data are also recorded and associations are estimated by health variables measured before the health assessment, e.g. at birth and initiation of military service. Participant follow-up is performed by registry searches with the aim of obtaining data on death/cause of death and hospital admissions after the health assessment date. The risk of premature death and/or morbidity is thereafter calculated with statistical methods for survival analysis. During continuation of follow-up, annual updates of data on mortality, as well as the addition of health-related data measured at military initiation (in men), are planned. Health variables measured at birth (in men and women) are already collected in approximately a third of individuals. The data collected are also linked to data from other projects that partly consist of the same individuals, e.g. the SAVa study, the Swedish Mammography Cohort (SMC) and the Cohort of Swedish Men (COSM).

In 2015, a decision was taken on conducting renewed assessments of about 11 500 of the study participants, i.e. those who participated in the WICTORY primary screening and in the nutrition survey conducted by KI, the so-called SMC and COSM studies. The assessments will be conducted in Västerås and we expect to call in approximately 2 500 individuals per year.

The steering committee currently includes Professor Jerzy Leppert, Professor Göran Nilsson and Ass. Professor Andreas Rosenblad.

The sentinel node projects

The information whether or not a breast tumour has spread to lymph nodes is crucial for the assessment of prognosis and the choice of postoperative adjuvant systemic therapy. In the late 1990s, the sentinel node biopsy was developed, enabling reliable diagnostics combined with minimal surgical trauma. The sentinel node is the first lymph node receiving lymph fluid from a tumour area in the breast. This lymph node can be identified with the help of a radioactive isotope and blue dye injected in the breast in the tumour's proximity. At surgery, only the sentinel node (which most often is not only one node but two, sometimes more) is excised, and if it is negative, remaining nodes are left behind. The method carries significantly less risk of arm complications than traditional axillary clearance. The project has so far generated three PhD theses, of which the latest was publicly defended in 2012.

It is now clear that the removal of further lymph nodes from the axilla in the event of a negative (metastasis-free) sentinel node lacks relevance. However, the necessity to also excise further lymph nodes in the event of a metastatic sentinel node is starting to be questioned. In cases of very small metastatic deposits, so-called micrometastases, this is probably not needed, but even in more extensive nodal involvement, some data suggest that further surgery is possibly unnecessary. In order to clarify this, we have started a cohort study of patients with micrometastases in the sentinel node. Patients will only undergo sentinel node biopsy, and not axillary clearance on the discovery of micrometastases. The study is a multicentre study with some 20 participating hospitals in Sweden and is monitored from Västerås. Alongside this, a randomized study has started, in which patients with 1-2 macrometastases in the sentinel node either undergo axillary clearance or just sentinel node biopsy. This is an international multicenter study that started in the spring of 2015 and will include 3 700 patients, which is expected to take at least 5 years. The study is monitored from the Karolinska Institute. The steering committee includes Professor Leif Bergkvist and PhD Yvette Andersson.

The SALVe project - (*Survey of Adolescent Life in Vestmanland*)

CCR-V staff conduct this survey for pupils in the 7th and 9th grades and the second year at upper secondary school. Researchers from the CCR-V are currently working on a series of scientific studies aiming to deepen the understanding of factors affecting self-destructive behaviour, drug abuse, sexual risk behaviour, obesity, antisocial behaviour, depression and eating disorders. Within the framework of cooperation with the Dept. of Neuroscience at Uppsala University a number of candidate genes have been developed.

Five PhD students have been affiliated to the project and registered at Uppsala University, including two who defended their doctoral theses in 2009 and 2010, one in 2014, and two in 2015. Between 2005 and 2015, some fifty articles were published in international journals.

The Child and Adolescent Psychiatry project (*First Presentation and Assessment; NOB*)

Comorbidity and treatment response; interaction between psychosocial risk factors and genetic vulnerability in patients in child and adolescent psychiatry.

In 2008, an extensive research project was planned, together with a number of interested individuals at the Child and Adolescent Psychiatry Outpatient Clinic West (Västerås). The project was started in 2009. Its aim is a survey of depression, anxiety, ADHD and behavioural disturbances (oppositional defiant disorder/conduct disorder), comorbidity, psychosocial risk factors, genetic disposition and treatment outcome in patients 4 to 17 years of age received at the Child and Adolescent Psychiatry unit. Age- and sex-related differences are going to be studied. A number of PhD students and postdocs will be working with their research using data from this unique research project.

Psychiatric Outpatient Care for adults in Sala (*Sala First Presentation and Assessment; SNOB*)

Comorbidity in a psychiatric outpatient clinic for adults. How does treatment affect sick leave – is the outcome influenced by biology and sex?

In 2009, a research project was planned in psychiatric outpatient care for adults in Sala. Its aim is a survey of the incidence of depression, anxiety, ADHD, alcohol and drug abuse, comorbidity, psychosocial risk factors, genetic disposition and treatment outcome in patients received at an adult psychiatric outpatient clinic. Sex differences will be analysed. Patient recruitment is now finished and a doctoral project will start in 2016.

Comorbidity at Maria Ungdom

Comorbidity and treatment response in adolescents with drug and alcohol abuse.

The project is carried out in cooperation with Professor Sheilagh Hodgins at Maria Ungdom in Stockholm, amongst others. We are currently running a 5-year follow-up of approximately 200 patients. In addition, their siblings and parents are examined. Comorbidity, treatment response and long-term outcome are going to be studied. Psychosocial and biological factors will be analysed. Also, in this exclusive project, a hundred research subjects have undergone brain imaging using magnetic resonance imaging (MRI) and we have also carried out methylation analyses on a number of candidate genes. Data from this study will be used by a number of PhD students and postdocs.

SALVe Cohort

Biological sensitivity to the environment, for better or worse.

The project is a cohort study which largely resembles the SALVe and the Child and Adolescent Psychiatry projects. We will follow about 2000 adolescents from county Västmanland for 20 years, to examine lifestyle habits and their health effects. We will study this both from biological and psychosocial points of view. The first data collection began in the autumn of 2012 and was completed in 2013. In the autumn of 2015 the first follow-up study, wave 2, was conducted. A number of PhD students and postdocs will conduct their research based on data from this project. Up-to-date information about the project is available on www.ltv.se/salve.

Fall prevention for elderly people in ordinary housing

Fall traumas in the elderly are increasing and imply suffering for the individual and high costs for society. There is evidence that risk of falling is diminished by training. The challenge is to motivate inactive elderly individuals to continue activity. More knowledge is needed on the design of fall-preventive programmes in order to maximally increase participation among the elderly. The study aim is to evaluate and compare the effects regarding fall frequency and fall-related injuries in elderly individuals who do versus do not train their balance, leg strength and walking ability. The study is performed in cooperation between the county councils of Uppsala, Västmanland and Sörmland. Individuals 75 years of age and older, living in their own house or flat in one of the three counties, are asked to participate in the study and are randomised to three groups, one of which is a control group. Physiotherapist-led home-based training with or without motivational talks lasts for three months and is followed up for two years. Evaluation is carried out by questionnaire and tests. Hopefully, the results will reduce the number of fall traumas and increase knowledge of effective fall-preventive interventions.

Malnutrition in the elderly who are admitted to hospital

Malnutrition in the elderly means less ability to cope with surgery and generally poorer survival. The extent of the problem, however, is poorly understood. The studies are intended to identify the prevalence of malnutrition in patients who normally stay at home but who are admitted to hospital for emergency or elective surgery. We will also identify risk factors for malnutrition, and compare the prognosis for malnourished patients with that of wellnourished. In order to search for early risk factors amongst lifestyle factors, data from our cohort is linked with a previously collected cohort with data on dietary and lifestyle habits up to 25 years before the patients were hospitalized. Also included is a randomized intervention study in which four different treatments for malnutrition (standard treatment, dietary advice by dietician, nutritional drinks and a combination of nutritional beverages and dietary advice) are compared in terms of survival, quality of life and health care consumption.

The data collection is completed and analyses will be conducted in 2016.

Can the choice of anaesthetic drugs affect survival after cancer surgery?

The anaesthesiological care of cancer patients has been acknowledged in recent years. Retrospective studies have shown higher survival for patients who had an epidural or a paravertebral nerve block during and after cancer surgery. The next step is to follow up the results of animal studies that have shown that the choice of anaesthetic agent for maintenance of anaesthesia may play a role in survival.

Different anaesthetic drugs affect the immune system in very different ways by the shift in balance between contributing to or counteracting inflammatory reactions. This may ultimately affect the risk of recurrence and the propensity of the tumour to metastasize. Inhalational anaesthetics, such as sevoflurane, show a more adverse effect in animal studies than the intravenously administered agent propofol. Inhalational agents are also genotoxic, meaning that DNA is negatively affected with a potentially negative effect in the case of cancer. For propofol, the opposite seems to be true. A third possible mechanism to explain the better survival after propofol anaesthesia in animal models is the as yet little investigated Hypoxia Inducible Factor (HIF), which acts as a survival protection for the cancer cells. In a few studies, inhalational agents, but not propofol, seem to upregulate this protective mechanism and thus facilitate cancer cell survival and their ability to develop metastases.

We conducted a retrospective medical record review of nearly 3000 patients who had surgery for breast or colorectal cancer, and who received general anaesthesia with either sevoflurane or propofol. Propofol-based anaesthesia resulted in a more than five per cent higher 5-year survival. The results were blurred, however, by an unequal distribution of confounders and effect modifiers between the groups, and the difference in survival after multiple regression analysis was non-significant. The study was found to be significantly undersized. Given the seriousness of the scientific query, we have gone ahead with a prospective, randomized study, dimensioned on the basis of data from the retrospective study. Inclusion of patients started in Västerås in December 2013. During 2014 the anesthesia clinics in Lund, Linköping and Örebro followed, and in 2015 clinics in Kalmar, Wrocław (Poland), Skellefteå and Uppsala were included. Another two clinics will join at the beginning of 2016. Up until December 28, 2015; 869 patients have been included.

Purpose: to prospectively assess whether the choice of anaesthetic agents in cancer surgery may play a role in survival.

Question: does propofol-based anaesthesia result in higher survival than sevoflurane-based anaesthesia?

Hypothesis: propofol-based anaesthesia results in an at least 5% higher 1- and 5-year survival rates.

Prospective, randomized, controlled multicentre study. Eight to ten centres are planned to include approximately 300 patients each per year for at least three years for a final study population of 8,000 patients. Uppsala Clinical Research Centre monitors the study.

The outcome measures are:

- cumulative 1- and 5-year survival (overall and relative survival)
- risk of death after stratification for different tumour types, co-morbidity, regional blockade or not, etc.

1- and 5-year survival will be obtained by cross-referencing of the clinical database with data from the different oncological quality registries managed by regional cancer centres (RCCs).

Apart from the doctoral projects described in attachment 2, CCR-V's co-workers are also working on their own research projects. Some of the main research areas are listed below.

Leif Bergkvist

- Sentinel node biopsy in breast cancer – micro metastases
- Sentinel node biopsy in breast cancer – macro metastases
- SentiMag – a new method for sentinel node detection
- Epidemiological studies, diet and cancer, etc.
- Quality of life after breast cancer treatment
- Malnutrition in the elderly

Mats Enlund

- Atelectasis during anaesthesia (tutoring PhD projects together with postdoc Lennart Edmark)
- Cancer and anesthesia – CAN
- CPR etc. (together with postdoc Marie-Louise Södersved Källestedt)
- Patient safety in the emergency department (together with postdoc Lena Burström)
- Measurement of post-operative recovery via mobile app – REPORT (with Prof. Ulrica Nilsson, Örebro)
- "Willingness to Pay", a health economic tool (inactive)

Ulrika Fagerberg

- Diagnostic methods and prognostic markers for inflammatory bowel disease in children
- Methods for the distinction of the two inflammatory bowel diseases Crohn's disease and ulcerative colitis
- Immunological mechanisms in gastrointestinal tract inflammation
- Treatment of inflammatory bowel disease

Pär Hedberg

- Ultrasound diagnostics in cardiovascular disease, especially left ventricular function
- Heart function during physical exertion
- Epidemiological studies of cardiovascular diseases
- The SAVa project

Ann-Christin Johansson

- Investigation and treatment of musculoskeletal pain
- Fall prevention for elderly people in ordinary housing
- Implementation of the FAR method - physical activity on prescription - in primary care patients

Johan Knutsson

- Studies of different types of ear tubes
- Stem cells in the eardrums
- Morbidity after a tonsillectomy
- Oscillatory vibration therapy of nasal congestion
- Fat plugging as an alternative surgical method for eardrum perforation

Jerzy Leppert

- Pathophysiology of Raynaud's phenomenon
- Cardiovascular diseases with a focus on the general atherosclerosis process
- Gene-environment interaction, a comprehensive explanatory model of deviant behaviour in adolescents
- Cardiovascular risk factors among 40- and 50-year-olds, long-term follow-up (WICTORY)

Monica Löfvander

- Function, nutrition and vitamin D. Cross-sectional and interventional study. Focus group interviews have also been conducted. Part of this project is implemented in cooperation with the Centre for Family Medicine (Cefam), KI and the CCR Dalarna.
- Disease and illness perspectives of a multicultural primary care population 1997-2007. Qualitative and quantitative cross-sectional, intervention and long-term studies.
- Pain Descriptions from patients' stories "Half the body" 5 years later. Interview and pain drawing data. To be processed.
- Sleep and health. Data from a population survey from the county councils in the Mälardalen region.

Göran Nilsson

- Assessment of 75-year-olds in Västerås. Studies of 10-year survival for men and women residing in Västerås born in 1922 and examined regarding cardiovascular health in 1997.
- Participates in the WICTORY project with follow-up of 40- and 50-year-olds examined in the 1990s.
- Myocardial infarction studies within the SAVa project.

Kent Nilsson

- New technical solutions for the diagnosis of mental ill health
- Social status, a marker of adolescents' lifestyle and health
- Social relations and emotions, predictors of deviant behaviour
- Gene-environment interactions, a comprehensive explanatory model of deviant behaviour in adolescents
- Child and Adolescent Psychiatry, biological vulnerability and psychosocial conditions in relation to comorbidity and treatment response
- Adolescents with abuse, risk and protective factors and psychiatric comorbidity
- Computer games and gambling among adolescents
- Changes of the brain structure as a consequence of biological sensitivity and environmental impact
- Changes in gene expression in the form of methylation as a consequence of biological sensitivity and environmental impact

Eva Nohlert

- Streamlining of tobacco cessation treatment
- Treatment effectiveness of tobacco cessation programmes
- Cost-effectiveness of tobacco cessation programmes
- Drop-out in tobacco cessation programmes
- Evaluation and development of the Swedish National Tobacco Quitline

Elisabet Rodby-Bousquet

- Neuromuscular scoliosis
- Psychometric evaluation of assessment instruments for position, postural ability and scoliosis
- Evaluation of screening methods for scoliosis
- Positioning, mobility, and aids and equipment for cerebral palsy
- Musculoskeletal problems in cerebral palsy, hip dislocation, scoliosis and contractures
- Pain and fatigue in adults with cerebral palsy
- 20-year follow-up of hip dislocations and windswept in the follow-up programme CPUP

Andreas Rosenblad

- Quantile regression for longitudinal data
- Bootstrap for quantile regression
- Computer-intensive statistical methods
- Participates in the WICTORY project with follow-up of 40- and 50-year-olds examined in the 1990s.

Marie-Louise Södersved Källestedt

- Five-year follow-up of health professionals' theoretical knowledge within cardiopulmonary resuscitation
- The development over time of experienced simulator instructors, and the importance of their work in the health care service
- The theoretical knowledge of care staff and their attitudes to cardiopulmonary resuscitation (CPR), in Västmanland and Dalarna

Philippe Wagner

- Familial cancer risk, oral contraceptive use and soft tissue sarcoma.
- Tissue damage and soft tissue sarcoma.

Marie-Louise Walker-Engström

- Patient safety culture in the emergency room in Västerås

Magnus von Unge

- Taste nerve study
- Intraoperative measurement of ossicle mobility
- Activation of regenerative centres on the eardrum
- Cultivation and analysis of stem cells from the eardrum
- Comparative study of different ear tubes in secretory otitis media

Cecilia Åslund

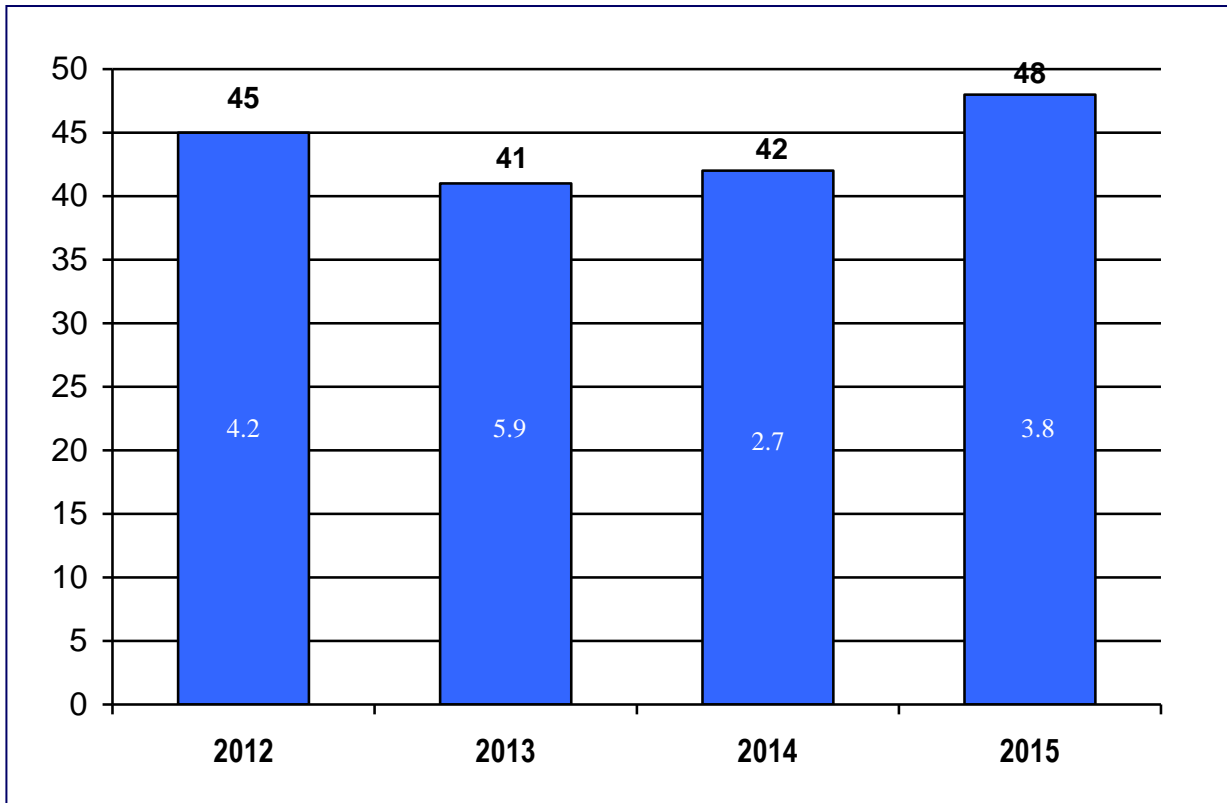
- Social status, social capital and shame - implications for health and behaviour
- Gene-environment interaction in relation to psychiatric illness and deviant behaviour among adolescents
- Genetic susceptibility for environmental factors and social context – “dandelion” children and ”orchid” children
- Computer games and gambling among adolescents in relation to health and behaviour

John Öhrvik

- Protein markers for cardiovascular disease
- Anthropometric measurements in relation to risks of myocardial infarction with a focus on gender differences
- Changes in risk factor patterns in the elderly – long-term follow-up of 75-year-olds
- Bootstrap methods for internal validation
- Neural network models for classification

Scientific production

Figure 4. All articles published in 2015 and the previous three years, the number and average impact factor (included in each bar respectively). For the calculation of the impact factor, only publications in journals registered by the Web of Science have been taken into account.



International Peer-Reviewed Journals

48. **Berling K**, Mannström P, Ulfendahl M, Danckwardt Lillieström N, **von Unge M**
The chorda tympani degenerates during chronic otitis media: an electron microscopy study.
Acta Otolaryngol. 2015 Jun;135(6):542-548
Impact factor 1.099

47. Arkkukangas M, Tuvemo Johnson S, Hellström K, Söderlund A, Eriksson S, **Johansson AC**
A feasibility study of a randomized controlled trial comparing fall prevention using exercise with or without the support of motivational interviewing.
Medicine Reports 2:134-140 - online February 2015
The Journal lacks impact factor

46. Tuvemo Johnson S, Martin C, Anens E, **Johansson A-C**, Hellström K
Older adults' opinions on the prevention of falls - and differences in opinions related to the level of physical activity.
Journal of Applied Gerontology accepted for publication 2015-11-22
Impact factor 1.125

45. **Johansson AC**, Öhrvik J, Söderlund A
Associations among pain, disability and psychosocial factors and the predictive value of expectations on returning to work in patients who undergo lumbar disc surgery.
Eur Spine J 2015 Feb 26 - Epub ahead of print

Impact factor 2.066

44. Sjölander L, **Vadlin S, Olofsdotter S, Sonnby K**

Validation of the parent version of the World Health Organization Adult ADHD Self-Report Scale for adolescents.

Nord J Psychiatry. 2015 Dec 1:1-7 - Epub ahead of print

Impact factor 1.339

43. **Sonnby K**, Skordas K, **Olofsdotter S, Vadlin S, Nilsson KW**, Ramklint M

Validation of the World Health Organization Adult ADHD Self-Report Scale for adolescents.

Nord J Psychiatry. 2015 Apr;69(3):216-223

Impact factor 1.339

42. **Lindblad K, Bergkvist L, Johansson AC**

Evaluation of the treatment of chronic chemotherapy-induced peripheral neuropathy using long-wave diathermy and interferential currents: a randomized controlled trial.

Support Care Cancer 2015 Dec 21 - Epub ahead of print

Impact factor 2.364

41. Pettersson R, Söderström S, **Nilsson KW**

Diagnosing ADHD in Adults: An Examination of the Discriminative Validity of Neuropsychological Tests and Diagnostic Assessment Instruments.

J Atten Disord. 2015 Dec 17 - Epub ahead of print

Impact factor 3.78

40. **Bendre M**, Comasco E, Nylander I, **Nilsson KW**

Effect of voluntary alcohol consumption on Maa expression in the mesocorticolimbic brain of adult male rats previously exposed to prolonged maternal separation.

Transl Psychiatry 2015 Dec 8

Impact factor 5.62

39. Vrettou M, Granholm L, **Todkar A, Nilsson KW**, Wallén-Mackenzie Å, Nylander I, Comasco E

Ethanol affects limbic and striatal presynaptic glutamatergic and DNA methylation gene expression in outbred rats exposed to early-life stress.

Addict Biol. 2015 Nov 27 - Epub ahead of print

Impact factor 5.359

38. **Swanberg J**, Åslund PE, Nyman RS, Nyman UR

Ultra-low iodine concentrations iso-attenuating with diagnostic 0.5M gadolinium in endovascular procedures to minimize the risk of contrast nephropathy: A phantom study.

Eur J Radiol 2015 Jun;84(6):1068-1074

Impact factor 2.369

37. Hermanson M, Hägglund G, Riad J, **Wagner P**

Head-shaft angle is a risk factor for hip displacement in children with cerebral palsy.

Acta Orthop 2015 Apr;86(2):229-232

Impact factor 2.77

36. Persson-Bunke M, Czuba T, Hägglund G, **Rodby-Bousquet E**

Psychometric evaluation of spinal assessment methods to screen for scoliosis in children and adolescents with cerebral palsy

BMC Musculoskelet Disord. 2015 Nov 14;16(1):351

Impact factor 1.72

35. **Burström L, Engström ML**, Castrén M, **Wiklund T, Enlund M**

Improved quality and efficiency after the introduction of physician-led team triage in an emergency department.

Ups J Med Sci. 2015 Nov 9:1-7 - Epub ahead of print

Impact factor 1.980

34. **Thorisson A, Smedh K, Torkzad MR, Pählman L, Chabok A**
CT imaging for prediction of complications and recurrence in acute uncomplicated diverticulitis.
Int J Colorectal Dis. 2015 Oct 21 - Epub ahead of print
 Impact factor 2.449
33. Schultz JK, Yaqub S, Wallon C, et al ; SCANDIV Study Group - **Chabok A**
Laparoscopic Lavage vs Primary Resection for Acute Perforated Diverticulitis: The SCANDIV Randomized Clinical Trial.
JAMA 2015 Oct 6;314(13):1364-1375
 Impact factor 35.289
32. **Månsson E, Hellmark B, Sundqvist M, Söderquist B**
Sequence types of Staphylococcus epidermidis associated with prosthetic joint infections are not present in the laminar airflow during prosthetic joint surgery.
APMIS 2015 Jul;123(7):589-595 - Epub 2015 May 8
 Impact factor 2.042
31. **Edmark L, Östberg E, Scheer H, Wallquist W, Hedenstierna G, Zetterström H**
Preserved oxygenation in obese patients receiving protective ventilation during laparoscopic surgery: a randomized controlled study.
Acta Anaesthesiol Scand. 2015 Aug 3 - Epub ahead of print
 Impact factor 2.322
30. **Hedberg P, Selmeryd J, Leppert J, Henriksen E**
Left atrial minimum volume is more strongly associated with N-terminal pro-B-type natriuretic peptide than the left atrial maximum volume in a community-based sample.
Int J Cardiovasc Imaging 2015 Oct - Epub ahead of print
 Impactfaktor 1,810
29. Johansson AK, Johansson A, **Nohlert E**, Norring C, Åström AN, Tegelberg Å
Eating disorders - knowledge, attitudes, management and clinical experience of Norwegian dentists.
BMC Oral Health 2015;15(1):124
 Impact factor 1.128
28. **Carlander J, Wagner P, Gimm O, Nordenström E, Jansson S, Bergkvist L, Johansson K**
Risk of Complications with Energy-Based Surgical Devices in Thyroid Surgery: A National Multicenter Register Study
World J Surg 2015 Oct 15 - Epub ahead of print
 Impact factor 2.642
27. Hermanson M, Häggglund G, Riad J, **Rodby-Bousquet E, Wagner P**
Prediction of hip displacement in children with cerebral palsy: development of the CPUP hip score
Bone Joint J. 2015 Oct;97-B(10):1441-1444
 Impact factor 3.31
26. **Vadlin S, Åslund C, Rehn M, Nilsson KW**
Psychometric evaluation of the adolescent and parent versions of the Gaming Addiction Identification Test (GAIT).
Scand J Psychol. 2015 Dec;56(6):726-735
 Impact factor 1.147
25. Jung S, Wang M, Anderson K, Baglietto L, **Bergkvist L** et al
Alcohol consumption and breast cancer risk by estrogen receptor status: in a pooled analysis of 20 studies.
Int J Epidemiol. 2015 Aug 28 - Epub ahead of print
 Impact factor 9.176

24. **Selmeryd J, Henriksen E, Leppert J, Hedberg P**
Interstudy heterogeneity of definitions of diastolic dysfunction severely affects reported prevalence.
Eur Heart J Cardiovasc Imaging 2015 Sep 15 - Epub ahead of print
 Impact factor 4.105
23. Mulinari S, Juárez SP, **Wagner P**, Merlo J
Does Maternal Country of Birth Matter for Understanding Offspring's Birthweight? A Multilevel Analysis of Individual Heterogeneity in Sweden.
PLoS One 2015 May 28;10 (5)
 Impact factor 3.534
22. **Söderström L, Rosenblad A, Adolfsson ET**, Wolk A, Håkansson N, **Bergkvist L**
A high energy intake from dietary fat among middle-aged and older adults is associated with increased risk of malnutrition 10 years later.
Br J Nutr. 2015 Aug 13:1-9 - Epub ahead of print
 Impact factor 3.453
21. Guo C, Tomson G, Guo J, Li X, Keller C, **Söderqvist F**
Psychometric evaluation of the Mental Health Continuum-Short Form (MHC-SF) in Chinese adolescents – a methodological study
Health and Quality of Life Outcomes 2015 13:198
 Impact factor 2.1
20. **Rodby-Bousquet E**, Persson-Bunke M, Czuba T
Psychometric evaluation of the Posture and Postural Ability Scale for children with cerebral palsy.
Clin Rehabil. 2015 Jun 30 - Epub ahead of print
 Impact factor 2.239
19. **Lövenhag S, Larm P, Åslund C, Nilsson KW**
Antisocial behavior reduces the association between subdimensions of ADHD symptoms and alcohol use in a large population-based sample of adolescents.
Scand J Psychol 2015 Jun 11 - Epub ahead of print
 Impaktfaktor 1,29
18. **Olofsdotter S, Sonnby K, Vadlin S**, Furmark T, **Nilsson KW**
Assessing Adolescent Anxiety in General Psychiatric Care: Diagnostic Accuracy of the Swedish Self-Report and Parent Versions of the Spence Children's Anxiety Scale.
Assessment 2015 May 1 - Epub ahead of print
 Impact factor 3.286
17. Isaksson J, Allen M, **Nilsson KW**, Lindblad F
Polymorphisms in the FK506 binding protein 5 gene are associated with attention deficit hyperactivity disorder and diurnal cortisol levels.
Acta Paediatr. 2015 May 29 - Epub ahead of print
 Impact factor 1.674
16. **Hellström C, Nilsson KW, Leppert J, Åslund C**
Effects of adolescent online gaming time and motives on depressive, musculoskeletal, and psychosomatic symptoms.
Ups J Med Sci 2015 Jun 14:1-13
 Impact factor 1.527
- 15 Comasco E, **Todkar A**, Granholm L, **Nilsson KW**, Nylander I.
Alpha 2a-Adrenoceptor Gene Expression and Early Life Stress-Mediated Propensity to Alcohol Drinking in Outbred Rats.
Int J Environ Res Public Health. 2015 Jun 25;12(7):7154-7171
 Impact factor 2.063

14. **Nikberg M, Sverrisson I, Tsimogiannis K, Chabok A, Smedh K.**
Prophylactic stoma mesh did not prevent parastomal hernias.
Int J Colorectal Dis. 2015 Jun 23 - Epub ahead of print
Impact factor 2.449
13. **Söderqvist F, Carlberg M, Hardell L**
Biomarkers in volunteers exposed to mobile phone radiation.
Toxicol Lett. 2015 Jun 1;235(2):140-6. - Epub 2015 Mar 31
Impact factor 3.262
12. Wang AY, Shen Y, Liew LJ, Wang JT, **von Unge M**, Atlas MD, Dilley RJ.
Searching for a rat model of chronic tympanic membrane perforation: Healing delayed by mitomycin C/dexamethasone but not paper implantation or iterative myringotomy.
Int J Pediatr Otorhinolaryngol. 2015 Aug;79(8):1240-1247
Impact factor 1.319
11. **Isacson D, Thorisson A, Andreasson K, Nikberg M, Smedh K, Chabok A**
Outpatient, non-antibiotic management in acute uncomplicated diverticulitis: a prospective study.
Int J Colorectal Dis. 2015 May 20 - Epub ahead of print
Impact factor 2.415
10. Peacock J, Dirckx J, **von Unge M**
Towards quantitative diagnosis of ossicular fixation: Measurement of stapes fixations using magnetically driven ossicles in human temporal bones.
Acta Otolaryngol. 2015 Sep;135(9):880-885
Impact factor 0.990
9. **Kerstis B, Aarts C, Tillman C, Persson H, Engström G, Edlund B, Öhrvik J, Sylvén S, Skalkidou A.**
Association between parental depressive symptoms and impaired bonding with the infant.
Arch Womens Ment Health. 2015 Apr 10 - Epub ahead of print
Impact factor 1.955
8. Harris HR, **Bergkvist L**, Wolk A.
An estrogen associated dietary pattern and breast cancer risk in the Swedish Mammography Cohort.
Int J Cancer. 2015 Apr 29 - Epub ahead of print
Impact factor 5.007
7. ERAS Compliance Group, **Carlander J**
The Impact of Enhanced Recovery Protocol Compliance on Elective Colorectal Cancer Resection: Results From an International Registry.
Ann Surg 2015 Jan 23 - Epub ahead of print
Impact factor 7.188
6. **Nikberg M, Kindler C, Chabok A, Letocha H, Shetye J, Smedh K**
Circumferential resection margin as a prognostic marker in the modern multidisciplinary management of rectal cancer.
Dis Colon Rectum 2015 Mar;58(3):275-282
Impact factor 3.198
5. Ritsinger V, Tanoglidi E, Malmberg K, Näsman P, Rydén L, **Tenerz Å**, Norhammar A.
Sustained prognostic implications of newly detected glucose abnormalities in patients with acute myocardial infarction: long-term follow-up of the Glucose Tolerance in Patients with Acute Myocardial Infarction cohort.
Diab Vasc Dis Res 2015 Jan;12(1):23-32
Impact factor 3.043
4. **Widarsson M, Engström G, Tydén T, Lundberg P, Hammar LM**
'Paddling upstream': Fathers' involvement during pregnancy as described by expectant fathers and mothers.
J Clin Nurs. 2015 Apr;24(7-8):1059-1068
Impact factor 1.233

3. **Nilsson C**, Valachis A

The role of boost and hypofractionation as adjuvant radiotherapy in patients with DCIS: A meta-analysis of observational studies.

Radiother Oncol. 2015 Jan 14 - Epub ahead of print

Impact factor 4.857

2. Valachis A, **Nilsson C**

Cardiac risk in the treatment of breast cancer: assessment and management.

Breast Cancer (Dove Med Press) 2015 Jan 16;7:21-35

Impact factor 1.505

1. **Vadlin S, Åslund C, Nilsson KW**

Development and content validity of a screening instrument for gaming addiction in adolescents: The Gaming Addiction Identification Test (GAIT).

Scand J Psychol. 2015 Jan 23 - Epub ahead of print

Impact factor 1.147

National Peer-Reviewed Journals

1A. **Nilsson G**

Ta vara på effekter av placeboeffekten

Läkartidningen 2015; 44-45

Other Journals

Johansson A-C

Psykosociala faktorerers betydelse för diskbråcksopererade patienter.

Best Practice. Yrkesdialog mellan specialister. 25 (December) 2015

Lectures/Posters International Congresses

Combined sections meeting of the American Physical Therapy Association (CSM APTA), Indianapolis February 4-7, 2015

Ginny Paleg, **Elisabet Rodby Bousquet**

Postural management for improved musculoskeletal function and activity.

Speaker Platform session (2 hours)

International Seating Symposium (ISS), Nashville February 26-28, 2015

Ginny Paleg, Jackie Casey, Roslyn Livingstone, **Elisabet Rodby Bousquet**

Providing Power & Mobility to Toddlers Around the World.

Speaker Instructional course (2 hours)

XIII Skandinaviskt Öronkirurgiskt Möte, Geilo, March 6-9, 2015

Aabel P / **von Unge M**

Ear drum keratinocytes.

Lecture

Aabel P / **von Unge M**

Randomized study of different types of tranmyringal ventilation tubes.

Lecture

83rd European Atherosclerosis Society (EAS) CONGRESS, Glasgow, UK, March 22-25, 2015

John Öhrvik on behalf of the IMPROVE Study Group.

Protein Biomarkers in Cardiovascular Disease.

World Confederation for Physical Therapy Congress (WCPT), Singapore Mayj 1-4, 2015

Ginny Paleg, **Elisabet Rodby Bousquet**, Hsiang-han Huan

Go baby go! Solutions for maximizing augmented mobility for children.

Speaker Focused symposia (1.5 hours)

Elisabet Rodby Bousquet

Meet the researchers/editors

Chaired a Networking session (1.5 hours)

Nordic Seating Symposium (NSS), Oslo May 18-21, 2015

Gunnar Hägglund, **Elisabet Rodby Bousquet**

CPUP - Surveillance Programme and National Quality Registry for CP.

Invited speaker, plenary session (45 min)

Elisabet Rodby Bousquet, Gunnar Hägglund

Prevention and treatment of muscle contractures and deformities in CP.

Invited speaker, plenary session (45 min)

10th SNUS Conference on gambling and problem gambling, Stockholm June 1-3, 2015

Sofia Vadlin

Associations between problematic gaming and psychiatric symptoms in adolescents.

Oral Presentation

Second international Paediatric Spasticity and Orthopaedic Management Conference, Cork, June 12, 2015

Elisabet Rodby Bousquet

Early Intervention to Prevent Postural Asymmetries and Deformities and the Importance of Stability in Wheelchair Seating.

Invited speaker, plenary session (45 min)

Elisabet Rodby Bousquet

CPUP – Update on a Health Care Programme for Children with Cerebral Palsy.

Invited speaker, plenary session (10 min)

17th Nordic Congress in General Practice, Gothenburg June 15-18, 2015

Monica Löfvander, Jerzy Leppert, Andreas Rosenblad

Self-reported health, quality-of-life and general functioning among recent immigrants and Swedish-born controls.

Oral presentation

16th International Coeliac Disease Symposium, Prag, Tjeckien, June 21-24, 2015

Myléus A, Stenhammar L, Björck S, Browaldh L, Daniels IM, Gudjónsdóttir AH, Högberg L, Lindberg E, **Fagerberg UL**, Malmquist M, Sandström O, Sandström O, Ivarsson A

How do Swedish pediatric clinics diagnose and follow-up celiac disease?

Poster

European Society of Cardiology annual congress, London, UK, August 29 – September 2, 2015

Nilsson G, Hedberg P, Leppert J, Rosenblad A, Öhrvik J

Elderly men with heavy torso and narrow hip are at increased risk of myocardial infarction: a population based case-control study.

Poster presentation

20th Foundation of European Nurses in Diabetes (FEND), Stockholm, September 11-12, 2015

Rebecka Husdal, Andreas Rosenblad, Janeth Leksell, Björn Eliasson, Eva Thors Adolfsson.

Time and competence contribute to shared decision-making.

Poster presentation

American Academy of Cerebral Palsy and Developmental Medicine (AAPDM), Austin October 21-24, 2015

Ginny Paleg, **Elisabet Rodby Bousquet**

Providing quality early intervention: walkers to wheelers

Breakfast seminar (1 hour)

20th Wonca Europe 2015 Istanbul, October 22-25, 2015

Paul Kalliokoski, **Monica Löfvander**

Physical performance and 25-hydroxyvitamin D: a cross-sectional study of pregnant Swedish and Somali immigrant women and new mothers.

Poster presentation.

Centre for Habilitation and Rehabilitation Research & Models (CHARM) International Seminar, Oslo November 10-11, 2015

Elisabet Rodby Bousquet, Reidun Jahnsen

Interventions for children, youth and young adults with cerebral palsy (CP) related to age, functional level and risk factors for secondary impairments. Population based results from the CP Follow-up Programs in Sweden and Norway.

Invited speaker (30 min)

National Congresses

National meeting for coeliac disease, Läkarsällskapet, Stockholm, March 27, 2015

Fagerberg Ulrika L

Co-organiser and moderator

Children's week, Folkets Hus, Stockholm, April 20-23, 2015

Fagerberg Ulrika L

- Faecal calprotectin from research to clinical benefit

- New European and Swedish guidelines for diagnosis and treatment of paediatric inflammatory bowel disease

Lecturer and Responsible for the Children's week training programmes in paediatric gastroenterology.

Åberg Malin, Strömstedt Karin, Ullberg Ulla, **Fagerberg Ulrika L**

Ultrasound of the bowel in children with abdominal symptoms and suspected or known inflammatory bowel disease

Poster

National spring meeting 2015 for Clinical Chemistry and Pathology, Conventum, Örebro, May 22, 2015

Fagerberg Ulrika L

Diagnosis and treatment of coeliac disease

Invited lecturer

National meeting on Paediatric inflammatory bowel disease, Örebro, October 8-9, 2015

Fagerberg Ulrika L

- *Measuring disease activity of paediatric inflammatory bowel disease (IBD)*

- *Presentation of the new children's module in the Swedish quality register for inflammatory bowel disease (SWIBREG)*

Lecturer and co-organiser of the meeting.

Miscellaneous Activities

Co-workers at the CCR-V have had external assignments as opponents, members of examination boards at thesis defences and as referees for international scientific journals. They have also lectured at national and international courses and seminars and actively participated as, among others, chairmen/chairwomen of several national and international expert boards and committees.

Yvette Andersson

- Referee for Br J Surgery, World J Surgery, International Journal of Breast Cancer

Leif Bergkvist

- Examiner for the accreditation of European breast surgeons, examination arranged by the European Society of Surgical Oncology och UEMS (Union Européenne des Médecins Spécialistes).
- Participated in the examination board for Myeongjee Lee's thesis defence at the Karolinska Institute.
- Referee for World Journal of Surgery, European Journal of Surgical Oncology, British Journal of Surgery, The Breast and the International Journal of Breast Cancer.
- Up until August, chairman of the Swedish Society of Breast Surgery. Member of the RCC's collaboration group for research in the region.

Mats Enlund

Academic commissions

- Opponent: Johanna Savilampi, Örebro University
- Examination board: Eva-Lena Zetterlund, Linköping University

Co-author, books

- Anestesi (Anaesthesia), Liber förlag, Stockholm, 3rd edition

Referee assignments

- Acta Anaesthesiologica Scandinavica x 5
- PLOS One x 1
- Translational Research x 1
- Tumor Biology x 1
- Upsala Journal of Medical Science x 1

Other activities

- Advisory board Scandinavian Real Heart
- Lecture assignments universities: a) specialist nurse training in intensive care and anaesthesia, Uppsala University; b) further training for anaesthesia nurses, arranged by Uppsala University, *course coordinator*; c) specialised course in basic anaesthesia and intensive care, Örebro University; d) Regional meeting anaesthesia and intensive care, Lund; e) training day Anaesthesia clinic in Gävle
- Consultant at Mälardalen University: specialist nurse training in intensive care and anaesthesia
- County Council Analysis group
- County Council Research council
- Reference group member for the Regional Research group, Uppsala-Örebro region
- Steering group member for Embedded systems, Mälardalen University
- Steering group member for the Clinical Training Centre, Västmanland County Council
- Steering group member for the Educational Centre, Västmanland County Council

Ulrika L Fagerberg

- Active in the European Society for Pediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN) and European Crohn's and Colitis Organisation (ECCO)
- Active in the Swedish Society for Paediatric Gastroenterology, Hepatology and Nutrition (SPGHN), assignment in the nomination committee
- Active in the working group for the National care programme for chronic inflammatory bowel disease
- Active in the working group for coeliac disease in children and adolescents
- Active in the Swedish Organization for the study of Inflammatory Bowel Diseases (SOIBD)

- Active in the national steering committee for the Swedish Inflammatory Bowel Disease Registry (SWIBREG) and responsible for registry and training in Västmanland county.
- Responsible for the design and implementation of a national child module in SWIBREG in 2015.
- Participates in the Advisory Board of the National Research Training Forum GIMICum (Gastro-Intestinal Mucosal inflammation and Infection Centre) financed by the Swedish Research Council.
- Lecturer and supervisor, specialty training for aspiring paediatricians in paediatric gastroenterology, hepatology and nutrition, Karolinska Institute, Stockholm.
- Lecturer, training in paediatrics for specialists in child and adolescent psychiatry, Västerås.
- Candidate training, Paediatric gastroenterology, hepatology and nutrition, Medicine Programme, Karolinska Institute
- Writer for Internet medicine on Inflammatory bowel disease in children.
- Supervisor for Helena Jonsson Rolandsdotter, Karolinska Institute (co-supervisor).
- Supervisor scientific projects; Resident Physicians Malin Ågren, Lina Bounta, Marie Thapper, Josefin Ullberg
- Science outreach: Article in Västmanlands Läns Tidning on Inflammatory Bowel Disease and own clinical research. Lecture on coeliac disease at the Swedish Coeliac Society membership meeting. Facts reviewing a book for children for the Swedish Coeliac Society – ”Jag har celiaki – barn och tonåringar om att leva med celiaki” (“I have coeliac disease – children and adolescents, about living with coeliac disease”).

Ann-Christin Johansson

Scientific supervision

- Doctoral student supervision, 2 students
- Master’s student supervision, 3 students

Referee assignments

- Rating of 5 articles for “McMaster online rating of evidence system” at the Centre for Evidence-Based Practice, School of Rehabilitation Science, McMaster University, Ontario, Canada.
- PLOS ONE, 1 article
- Trials Journal, 1 article
- European Journal of Physio Therapy, 1 article
- Reviewer of abstracts for the Physiotherapy Days 2015

Teaching

- Continuous teaching, Physiotherapist programme, Mälardalen University
- Course coordinator for:
 - Physiotherapy examination methods 25 credits, foundation level
 - Evidence-based practice and evaluation 7.5 credits, foundation level
 - Theory focus on an optional professional area, 7.5 credits, advanced level

Science outreach

- Participated in radio programme on local station (Sörmland) regarding research in the area of the elderly

Johan Knutsson

Supervision:

- Katarina Berling, CCR-V, Uppsala University (co-supervisor)
- Nadine Schart-Morén, Uppsala University (co-supervisor)

Referee assignment

- International Journal of Pediatric Otorhinolaryngology
- Histology and Histopathology

Teaching material

- Created Youtube film about examination techniques for clinical ear, nose and throat examination

Monica Löfvander

Scientific assignments

- Main supervisor for doctoral student
- Member Regional collaboration Post-doc Primary care
- Management team, vitamin D study, KI

Referee assignments

- Patient Education and Counselling
- Scandinavian Journal of Primary Health Care
- Family Practice
- International Journal Women's Health
- BMC Public Health

Science outreach

- Participated in radio programme (interview) SR4 Västmanland on refugees and new immigrants' health as well as TV MittNytt and Somali radio broadcasts on the same subject.
- Reports and letters to the editor in the Västmanlands Läns Tidning (newspaper) on refugees and new immigrants' health, on a number of occasions.

Books

- Allmänmedicin, 2nd edition, 2015. (Ed. Hunsår, Hovellius B) Lund, Studentlitteratur
Löfvander M. Chapter 1 (allmänmedicinsk vård) and chapter 5 (invandrare och flyktingar).

Lectures, debates

- Migration dilemma, Mälardalen University, April 8, 2015
- Various lectures for doctors in further training, Västerås and Stockholm, same theme
- Migration and Health. Asylum and Integration Health, Västmanland, Nov 5, 2015.

Teaching, international

- Migration and Health, Mariehamn, Åland, Finland. May 22, 2015.

Göran Nilsson

- Referee for Healthy Aging Research
- Presentation of the Västmanland County Council research efforts through the CCR-V at the Swedish society of Medicine national conference, Stockholm, December 2015

Kent Nilsson

- Chairman of the SBU – the Swedish Agency for Health Technology Assessment and Assessment of Social Services, project on; the Prevention of abuse among children, adolescents and young adults, the project was concluded with a report 2015
- Board member of the Swedish association of Alcohol and Drug Research
- Member of the advisory committee for the drug research prize of the Swedish Council for Information on Alcohol and Other Drugs (CAN)
- Member of the Systembolaget Alcohol Research Council
- Member of the Regional Research Council (RFR) in the Uppsala-Örebro region, RFR's priority committee
- Expert reviewer for Netherlands Organisation for Scientific Research (Earth and Life Sciences)
- Review assignment; Sexual & Reproductive Healthcare, Drug and Alcohol Dependence
- Member of the examination board at the thesis defence of Eva Norén Selenius, Childhood signs of ADHD and psychosocial outcomes in adolescence - a longitudinal study of boys and girls, Karolinska institute

Supervision

- Sara Lövenhag, CCR-V, Uppsala University, thesis defence 2015 (main supervisor)
- Charlotta Hellström, CCR-V, Uppsala University, Mälardalen University, thesis defence 2015 (co-supervisor)
- Aniruddha Todkar, CCR-V, Uppsala University, licentiate examination 2015 (co-supervisor)

Science outreach

Public lectures for the Swedish Association of Local Authorities and Regions, SKL, Uppsala University, U-FOLD, the National Association against Alcohol and Drug Addiction (RFMA), the Swedish Council for Information on Alcohol and Other Drugs (CAN), the National Conference on clinical research – Gothia Forum, the Swedish Association for Alcohol and Drug research, Förebygg.nu, Sörmland County Council and the municipalities of Eskilstuna-Strängnäs and Karlskrona, SIPU International, Press Breakfast SBU (the Swedish Agency for Health Technology Assessment and Assessment of Social Services) and a number of inputs in national and regional media.

Elisabet Rodby Bousquet

- Review assignment Developmental Medicine and Child Neurology
- Opponent at thesis defence disputation, Physiotherapist Derek Curtis Hvidovre Hospital, Copenhagen April 10, 2015
- Responsible for the EBH report (Evidence-based habilitation) "*Methods to prevent scoliosis in children, adolescents, adults with neuromuscular impairments*", published May 2015
- Coordinator of the National Registry and the follow-up programme for Cerebral Palsy (CPUP). Educates colleagues in Sweden, Norway, Danmark and Iceland on Cerebral Palsy and CPUP/CPOP/CPEF and is part of the steering group that arranges Nordic conferences.
- Member of the American Academy of Cerebral Palsy and Developmental Medicines, Life Span Care Committée.
- Working group for Sitnet Sweden who arranges conferences on sitting and positioning.
- Participates in international research group on pain in adults with Cerebral Palsy.
- Teaches clinical examination, orthopaedics, within the medicine programme at Lund University.
- Teaches leadership, teamwork and entrepreneurship within the physiotherapy programme, Mälardalen University.
- Supervision:
 - Måns Persson-Bunke, Orthopaedics Lund University (co-supervisor)
 - Maria Hermansson, Orthopaedics Lund University (co-supervisor)
 - Katina Pettersson, Orthopaedics Lund University (co-supervisor)

Marie-Louise Södersved Källestedt

Academic assignments

- Examiner specialist training intensive care

Other assignments

- Project Manager of the training records of the Swedish CPR Council.

Philippe Wagner

- Teaching: Course in Survival Analysis 1.5 credits, Faculty of Medicine, Lund University.
- Teaching: Course in Applied Medical Statistics, 3 credits, Faculty of Medicine, Lund University.
- Regular reviewer specialising in statistics and epidemiological methods: International journal of clinical pharmacy

Magnus von Unge

- Opponent at Victoria Hellberg's public defence of the thesis "Pharmacokinetics and inner ear transport of cisplatin", Karolinska institute, Stockholm, March 27.
- Juror at John Peacock's public defence of the thesis "Vibration measurements in the middle ear. Normal, diseased, repaired middle ear, and nonlinear responses" at the University of Antwerp, Belgium, December 8.
- Held the visiting professorship "Raine Visiting Professor 2015" at The University of Western Australia, Perth.
- Head of the ENT Research Group, Campus Ahus, University of Oslo.

- Course Lecturer in the undergraduate course in ENT diseases for medical students at the University of Oslo, Norway
- Organiser of the "XII Scandinavian Ear Surgery Meeting", Geilo, Norway, March 6-8.
- Co-organiser of the "7th International Meeting on Middle Ear Mechanics in Research and Otology" (Memro 2015). Aalborg, Denmark, July 1-5.
- Invited Guest Editor, Hearing Research.
- Review assignment for Acta Otolaryngologica, Int. Journal for Pediatric Otorhinolaryngology, Hearing Research, Scientific Reports/Nature and more.
- Supervision:
 - Katarina Berling, CCR-V, Uppsala University (main supervisor)
 - Peder Aabel, Oslo University (main supervisor)
 - Nadine Schart-Morén, Uppsala University (main supervisor)
 - Torstein Grønseth, Oslo University (co-supervisor)
 - Anders Niklasson, Umeå University (co-supervisor)

Cecilia Åslund

Supervision

- Charlotta Hellström, CCR-V, Uppsala University, thesis defence 2015 (main supervisor)
- Sara Lövenhag, CCR-V, Uppsala University, thesis defence 2015 (co-supervisor)
- Sofia Vadlin, CCR-V, Uppsala University, licentiate degree 2015 (co-supervisor)
- Dave Checknita, CCR-V, Uppsala University (co-supervisor)

Referee assignments

- Journal of Mental Health Systems
- Journal of Epidemiology & Community Health
- Scandinavian Journal of Public Health
- Aggressive Behavior

Teaching

- Lecturer, Medical programme Örebro, T5, gene-environment interaction within psychiatric research, two occasions.
- Lecturer and seminar organiser, Medical programme Uppsala, T3-4 and T8, Psychiatry and Social Psychology, approximately 40 teaching hours.

Science outreach

- Participated in Tvärsnytt (TV), Västmanlands Läns Tidning (newspaper), Västerås Tidning (newspaper) and Taltidningen VKT with various articles about dandelion children and orchid children and relations to psychiatric ill health and delinquency.
- Participated in Radio Blekinge broadcast on the topic social status and computer gaming amongst adolescents.
- Lecture at the Self Help Centre at Västmanland County Council, about dandelion children and orchid children.

John Öhrvik

Academic assignments

- Chairman of the Svenska statistikfrämjandet.
- Member of the examination board: Jiaqi Huang.
- Member of the Regional Research Council (RFR) in the Uppsala-Örebro region, RFR's priority committee.

Referee assignments

- Circulation: Cardiovascular Quality and Outcomes, Circulation: Cardiovascular Interventions, Circulation: Cardiovascular Imaging.

Science outreach

- Lecture for the Active Seniors Association in Västerås – *Everyday exercise is important for a long life with quality.*

Research Grants

The Centre for Clinical Research administers the various research grants of Västmanland County Council.

Research positions

Västmanland County Council has seven doctoral positions at 50%, and between four and eight post-doctoral positions at 25-50%. These research positions are advertised continuously as soon as they are released. Employees of Västmanland County Council are entitled to apply. The structure is based on a two-year appointment with a maximum of 50% at CCR-V combined with the applicant's other duties within Västmanland County Council. The two-year appointment may be extended for two years at a time, up to a total of six years, per applicant. Doctoral positions (90% of regular salary) are applied for in competition with others, and are given to applicants who are close to, or have passed their half-time review/Licentiate degree. Post-doctoral positions (with pay) are open to medical staff who have passed their PhD examination within the past five years.

Doctoral Positions (50%) at the CCR-V

Lisa Söderström , reg. dietician, CKF (01/04/2012-31/03/2016)	<i>Prevalence of malnutrition and predictive factors for impaired nutritional status in elderly patients at a medium-sized Swedish hospital</i>
Johan Carlander , MD, Dept. of Surgery (01/09/2012-31/12/2015)	<i>Heat production, nerve function and morphology following dissection with surgical instruments</i>
Firas Al-Ubaidi , MD, Dept. of Urology (01/04/2013-31/03/2015)	<i>Studies of the mechanisms underlying the additive effect of neoadjuvant castration in radiotherapy of prostate cancer</i>
Sara Lövenhag (née Björstad), psychologist, Child and Adolescent Psychiatry Västerås (01/09/2013-31/08/2015)	<i>Psychiatric, sociodemographic and interpersonal factors involved in the misuse of alcohol and drugs by adolescents</i>
Philippe Wagner , biostatistician, CCR-V (01/07/2014-30/06/2016)	<i>Cancer morbidity in prosthetic surgery</i>
Susanne Olofsdotter , psychologist, Child and Adolescent Psychiatry Sala (01/11/2014-31/10/2016)	<i>Anxiety disorders: prevalence and comorbidity, interaction between psychosocial risk factors and genetic vulnerability in Child and Adolescent Psychiatry patients</i>
Jakob Swanberg , MD, Radiology (20/04/2015-19/04/2019)	<i>Minimizing iodine contrast media use in lower limb CT angiography and digital subtraction angiography</i>

Postdocs with Individualized Degrees of Affiliation

Maziar Nikberg , PhD, Dept. of Surgery, 25% (01/05/2012–30/04/2016)	<i>Colorectal cancer, diverticulosis.</i>
Abbas Chabok , PhD, Dept. of Surgery, 25 % (01/12/2012–30/11/2016)	<i>Different aspects of the treatment of diverticulitis.</i>
Elisabet Rodby-Bousquet , PhD, CCR-V, 50% (01/01/2013-31/12/2016)	<i>Position, postural ability and movements in cerebral palsy</i>
Peter Larm , PhD, CCR-V, 50% (01/05/2013-30/04/2017)	<i>Risk and protective factors for alcohol and drug abuse among young people</i>
Fredrik Söderqvist , PhD, Centre of excellence for health, 12.5% (01/06/2013—31/05/2017)	<i>The links between health and the use of wireless telephones (mobile and cordless desktop phones)</i>
Yvette Andersson , PhD, Dept. of Surgery, 25% (01/01/2014-31/12/2015)	<i>Sentinel node in clinical practice – implications for breast cancer treatment and prognosis</i>

Research grants – research time (research weeks)

At Västmanland County Council there are two research grants aimed at developing expertise in hospital care through research. Employees of Västmanland County Council are eligible to apply. The research grant, equivalent to 90% of the basic salary, represents compensation for wage costs during the time the applicant conducts projects of a scientific nature.

Research grants for projects with clinical affiliation –announced in the spring

The target group is county employees. The applicant must have documented scientific competence or be supervised by a person with such competence. Granted for a maximum of eight full-time weeks per researcher and year.

Research grants for PhD students and postdocs – announced in the autumn

The target group is PhD students and postdocs who intend to continue their research work in order to acquire the competence of Senior Lecturer, Associate Professor or Professor. Granted for a maximum of eight full-time weeks per researcher and year.

Research Grants 2015 – projects with clinical affiliation

Name	Project title
Lisa Söderström , Reg. Dietician, CCR-V, 6 weeks	<i>The association between nutritional status and disease-specific mortality in the elderly</i>
Katarina Lindblad , Physiotherapist, Dept. of Surgery, 4 weeks	<i>Electroconvulsive therapy in chemotherapy-induced peripheral sensory neuropathies</i>
Maria Heyman , Foundation doctor, Foundation doctor unit, 4 weeks	<i>Effects on growth of intensified parenteral nutrition for preterm infants</i>
Cecilia Ranhem , MD/PhD student, Dept. of Obstetrics and Gynecology, 4 weeks	<i>Potential progression markers and HPV in primary vaginal cancer: clinical and diagnostic impact</i>
Emelie Condén , RN/PhD, Medicine-1-Cardiology, 8 weeks	<i>Sleep impairment in relation to prognosis following acute myocardial infarction</i>
Emeli Månsson , MD/PhD student, Dept. of Infectious Diseases, 6 weeks	<i>Changes in the skin's normal flora in patients undergoing joint replacement surgery – a descriptive study of prospectively collected CoNS isolates from 100 patients</i>
Lana Salih Joelsson , MD/PhD student, Kvinnohälsan AB, 4 weeks	<i>Lifestyle and reproductive health in multicultural Sweden – a prospective study of women seeking help for infertility</i>
Jir Barzangi , DMD, folk tandvården, 4 weeks	<i>Tooth bud extraction in infants – perceptions and experiences of a traditional intervention: a qualitative study amongst adults with East African origin, in Sweden</i>
Mikael Svanberg , MD, Dept. of Psychosomatic Medicine, 2 weeks	<i>The importance of validating and creating a good alliance for multimodal investigation of patients with chronic pain. A “single-case study”.</i>
Katina Pettersson , Physiotherapist/PhD Student, Centre for Habilitation, 4 weeks	<i>Evaluation of the health-related quality of life survey CPCHILD for children with cerebral palsy aged 4-18 years in Västmanland och Dalarna.</i>
Sara Ulfvebrand , Child and Adolescent Psychiatry, 4 weeks	<i>Psychiatric Comorbidity in Patients with Eating Disorders</i>
Christina Carlander , MD/PhD student, Dept. of Infectious Diseases, 8 weeks	<i>Risk of cervical neoplasia among HIV-1 positive women in Sweden</i>
Virginia Gonzalez , MD/PhD student, Dept. of Surgery, 8 weeks	<i>New diagnostic methods for breast cancer</i>
Merit Kullinger , MD/PhD student, Dept. of Obstetrics and Gynecology, 4 weeks	<i>Ultrasound Pregnancy Dating and Risk for Perinatal Morbidity and Mortality – When Dates Mismatch</i>

Doctoral Research Grants 2015

Name	Project title
Merit Kullinger , MD, Dept. of Obstetrics and Gynecology Västerås, 6 weeks	<i>Ultrasound Pregnancy Dating and Risk for Perinatal Morbidity and Mortality – When Dates Mismatch</i>
Katarina Berling , MD, ENT, 7 weeks	<i>Taste influence in ear disease and after ear surgery</i>
Kerstin Rosenqvist , MD, Dept. of Radiology Västerås, 2 weeks	<i>Transjugular intrahepatic portosystemic shunt for management of portal hypertension in Budd-Chiari syndrome</i>
Christina Carlander , MD, Dept. of Infectious Diseases, 4 weeks	<i>Risk of cervical neoplasia among HIV-1 positive women in Sweden</i>
Nils Block , MD, Dept. of Infectious Diseases, 4 weeks	<i>The significance of clinical and bacterial factors for the development of complications in meningitis caused by pneumococci</i>
Emeli Månsson , MD, Dept. of Infectious Diseases, 2 weeks	<i>Changes in the skin's normal flora in patients undergoing joint replacement surgery – a descriptive study of prospectively collected CoNS isolates from 100 patients</i>
Cecilia Ranhem , MD, Dept. of Obstetrics and Gynecology Västerås, 2 weeks	<i>Potential progression markers and HPV in primary vaginal cancer: clinical and diagnostic impact.</i>
Eduardo Sima , MD, Dept. of Surgery Västerås, 2 weeks	<i>Metabolism and activity level of patients who have undergone surgery for obesity</i>
Daniel Isacson , MD, Dept. of Surgery Västerås, 1 week	<i>Outpatient treatment of acute uncomplicated diverticulitis – a prospective observational study</i>

Postdoctoral Research Grants 2015

Name	Project title
Ass. Professor Staffan Eriksson , MD, Dept. of Surgery Västerås, 2 weeks	<ol style="list-style-type: none"> 1. Develop methods for diagnosis of breast cancer, the use of MRI and follow-up of the palpation project conducted at the breast unit 2. Develop the use of superparamagnetic iron oxide particles (Sienna) for Sentinel node surgery 3. Follow-up of antibiotic treatment of acute appendicitis in adults performed in 1992-2000
Ass. Professor Göran Isacson , DMD, Västmanland Hospital Västerås, 6 weeks	<i>Oral apparatus for the treatment of obstructive sleep apnea. A randomized controlled blinded multicenter study comparing the effect of 2 structures.</i>
Ass. Professor Pär Hedberg , MD, Dept. of Physiology Västerås, 7 weeks	<i>Studies of atherosclerosis in Västmanland (SAVa project)</i>
PhD Karin Sonnby , MD, Child and Adolescent Psychiatry Västerås, 4 weeks	<i>Sensitivity and specificity of two different assessment questionnaires for symptoms of depression in adolescents; versions for self-assessment and parent report</i>
PhD Karin Sonnby , MD, Child and Adolescent Psychiatry Västerås, 1 week	<i>What is the significance of heredity and symptom profile at the first visit to the Child and Adolescent Psychiatry unit, for the presence of depressive symptoms and quality of life levels 5 years later?</i>

Doctoral positions at CCR-V funded by external grants

The externally funded PhD students are mostly part of the group involved in the SALVe project. The financiers are the Svenska Spel Research Council, Stockholm County Council, the Swedish Research Council for Health, Working Life and Welfare (Forte), the König-Söderströmska Foundation and the Uppsala-Örebro Regional Research Council.

Charlotta Hellström , MSc, licentiate, 50% (01/01/2015-31/10/2015)	<i>Adolescent gambling habits and associated health effects</i>
Sara Lövenhag , Psychologist 30% (01/01/2015-15/06/2015)	<i>Youth and dependency: psychiatric, sociodemographic and interpersonal factors concerning the misuse of alcohol and drugs by adolescents</i>
Susanne Olofsdotter , Psychologist, 10% (01/01/2015-31/12/2015)	<i>Anxiety disorders: prevalence and co-morbidity, interaction between psychosocial risk factors and genetic vulnerability in child and adolescent psychiatric patients</i>
Aniruddha Todkar , Pharmacist 100 % (01/01/2015-31/12/2015)	<i>Genetics of alcohol use disorders</i>
Sofia Vadlin , Social worker 90% % (01/01/2015-31/12/2015)	<i>Psychosocial and genetic factors in relation to gambling behaviour among children and adolescents in Västmanland</i>
Megha Bendre , Master in Pharmacology, 70% (01/01/2015-31/12/2016)	<i>Genotype, transcript, and epigenetic profiling of MAOA in relation to early life stress and alcohol consumption</i>
Dave Checknita , Master in Neuroscience, 100% (01/01/2015-31/12/2016)	<i>Genotype and epigenetic profiling of candidate genes associated with early life stress and antisocial outcomes</i>
Rebecka Husdal , Master of Public Health, 100% (01/06/2015-31/12/2016)	<i>The development of the diabetes care organisation in the Primary Health Care in Sweden and the factors that contribute to an equal care for people with type 2 diabetes.</i>

External Research Grants

One of the most important prerequisites for conducting research is to secure funding, both short term and long term. To maintain research activities with the same intensity as at present, and if possible increase it, funding by external means is necessary. Our hope is that everyone working on a research project actively seeks various funding externally, which is also an advantage for a continued scientific career.

Researchers who are employed by, or affiliated with, the CCR-V increasingly apply for means from different funds in order to finance their studies. In 2015, employees at the CCR-V received the following external research grants:

Project	<i>Differential susceptibility to environmental context: The effects of biological sensitivity and positive and negative psychosocial factors on adolescent psychiatric illness.</i>
Project leader	Cecilia Åslund
Foundation	Forte, 3 230 000 SEK, 2016-2018 Åke Wibergs Foundation, 200 000 SEK Foundation Söderström-Königskas sjukhemmet, 100 000 SEK
Amount	3 530 000 SEK
Project	<i>Gene-environment interaction effects on autonomic arousal in gambling behaviour.</i>
Project leader	Cecilia Åslund
Foundation	Svenska Spel Research Council, 3 000 000 SEK, 2016-2019
Amount	3 000 000 SEK
	<i>Treavel grant</i>
Grant recipient	Marie-Louise Södersved Källestedt
Foundation	The Swedish Society for clinical training and medical simulation
Amount	15 000 SEK
Project	<i>Adolescents who not drink alcohol: Associated factors, health outcomes, and different developmental pathways.</i>
Project leader	Peter Larm, Collaboration project between the CCR-V, Karolinska Institute and Stockholm University.
Foundation	Forte, 2 430 000 SEK Systembolaget Research Council (SRA), 250 000 SEK
Amount:	2 680 000 SEK
Project	<i>Differential susceptibility to environmental context – cGxE interaction and epigenetic effects in relation to adolescent mental health problems.</i>
Project leader	Kent Nilsson
Foundation	Hjärnfonden, 500 000 SEK, 2016
Amount	500 000 SEK
Project	<i>Comorbidity in an adult psychiatric outpatient clinic.</i>
Project leader	Kent Nilsson
Foundation	Regional Research Council Uppsala-Örebro, 435 000 SEK, 2016
Amount	435 000 SEK

Open House

Open House (OH) implies that all employees of Västmanland County Council may book a meeting with one of our researchers, supervisors or research assistants to discuss their thoughts regarding possible research projects. No complete research plan is necessary, a well-considered proposal is quite enough. The supervisors will evaluate the proposal's potential and give advice on how to proceed.

Project development (PD) is a new activity introduced in 2012. Those projects that are, in association with Open House or an application for project affiliation, thought to possess potential but need support for further development are offered project development. This support is given through tutorship by a postdoc or PhD student with competence in the specific area and a senior supervisor as a mentor. One project was granted project development in 2015.

In 2015, 17 consultations were conducted at the CCR-V; open house/project development, *in accordance with the list below*. In addition, consultations with our external consultants, professor/sociologist Bengt Starrin of Karlstad University and professor/statistician John Öhrvik of Karolinska Institutet were held about once/month.

Date	OH	PU	Present	Title
24/02/2015	X		<i>Mariusz Maszkowski, Senior Consultant, Dept. of Vascular Surgery</i> From CCR-V: Jerzy Leppert, Professor Tony Wiklund, Research Assistant	<i>Discussion of research plan and data collected on vascular surgery.</i>
10/03/2015	X		<i>Cecilia Nilsson, PhD, Senior Consultant Dept. of Oncology and</i> <i>Therese Larsson, Resident physician Dept. of Oncology</i> From CCR-V: Leif Bergkvist, Professor Yvette Andersson, PhD	<i>Influenza vaccine to oncology patients?</i>
10/03/2015	X		<i>Eva-Lena Syrén, Senior Consultant Dept. of Surgery and</i> <i>Arne Eklund, PhD, Senior Consultant Dept. of Surgery</i> From CCR-V: Leif Bergkvist, Professor Mattias Rehn, Research Assistant	<i>Rendevouz ERCP, pre or postoperative, which is the best?</i>
10/03/2015	X		<i>Perna Igahni Arani, Junior Doctor, Västmanland Hospital Köping</i> From CCR-V: Göran Nilsson, Professor Lisa Söderström, Research Assistant	<i>Interested in doing research, looking for suitable subject.</i>
24/03/2015	X		<i>Gustav Foghammar, Specialist general medicine and general psychiatry</i> From CCR-V: Kent Nilsson, Professor Annika Kärnsund, Research Assistant Lisa Söderström, Research Assistant	<i>Addict Eye Quantified self and health monitoring in addicting treatment.</i>

Date	OH	PU	Present	Title
24/03/2015	X		<p><i>Tommi Ranta</i>, Nurse anesthetist and Ambulance Nurse</p> <p>From CCR-V: Mats Enlund, Ass. Professor Monica Löfvander, Ass. Professor Lena Burström, PhD Lisa Söderström, Research Assistant</p>	<i>Anaesthesia and acute transports between hospitals.</i>
24/03/2015		X	<p><i>Lennart Jansson, Blanca Domingo, Mona Östlund, Monica Lövman.</i> Addiction Centre, Psychiatry.</p> <p>From CCR-V: Kent Nilsson, Professor Jerzy Leppert, Professor Lisa Söderström, Research Assistant</p>	<p>1. <i>The effect of expectation, active drug and placebo on objective and self-rated performance at QbTest regarding ADHD core symptoms of hyperactivity, inattention and impulsivity in patients with untreated ADHD.</i></p> <p>2. <i>The effect of expectation, active drug and placebo on objective and self-rated performance at QbTest regarding ADHD core symptoms of hyperactivity, inattention and impulsivity in patients with untreated ADHD and substance syndrome.</i></p>
14/04/2015	X		<p><i>Simon Lund and Elisabeth Gustavsson</i>, RN and responsible for pain control ICU</p> <p>From CCR-V: Mats Enlund, Ass. Professor Angelica Norling, Research Assistant Eva Nohlert, PhD</p>	<i>Prolonged pain in former ICU patients.</i>
21/04/2015	X		<p><i>Annika Granath</i>, RN, Dept. of Rheumatology</p> <p>From CCR-V: Kent Nilsson, Professor Annika Kärn Sund, Research Assistant Eva Nohlert, PhD</p>	<i>Evaluation of Min Vårdplan (My Care Plan).</i>
09/06/2015	X		<p><i>Birger Malmström</i>, Senior Consultant The Dept. of Pediatrics and Adolescent Medicine, <i>Gunnar Sjös</i>, MD, The University Children's Hospital Uppsala, <i>Margareta Widarsson</i>, PhD, <i>Birgitta Kerstis</i>, PhD</p> <p>From CCR-V: Ulrika Lorentzon Fagerberg, PhD Tony Wiklund, Research Assistant Eva Nohlert, PhD</p>	<i>The project largely represents a quality assurance of the care at unit 69, which has undergone an extensive refurbishment enabling full family participation in the Neo natal care.</i>
16/06/2015	X		<p><i>Andreas Wångdal</i>, Resident Physician Dept. of Infectious Diseases</p> <p>From CCR-V: Magnus von Unge, Professor Rebecka Husdal, PhD student Eva Nohlert, PhD</p>	<i>Malaria in Sweden.</i>

Date	OH	PU	Present	Title
23/06/2015	X		<p><i>Ivett Girus</i> Senior Consultant, General Psychiatry for adults, clinic 3.</p> <p>From CCR-V: Kent Nilsson, Professor Eva Nohlert, PhD</p>	<i>Interested in research, wants to build a research reception centre at the department for general psychiatry and establish a research culture.</i>
18/08/2015	X		<p><i>Emelie Condén</i>, PhD, Dept. of Medicine</p> <p>From CCR-V: Kent Nilsson, Professor</p>	<i>Feed-back on the questionnaire evaluating the project clinical librarian at the blood and gastrointestinal department</i>
25/08/2015	X		<p><i>Nina Fattahi</i>, Resident Physician and <i>Adam Berszstel</i>, Senior Consultant, Dept. of Vascular Surgery</p> <p>From CCR-V: Jerzy Leppert, Professor Andreas Rosenblad, Ass. Professor Eva Nohlert, PhD</p>	<i>Risk factors for aortic aneurysm.</i>
20/10/2015	X		<p><i>Sofia Dettman</i>, MD at Gryta Palliativa division.</p> <p>From CCR-V: Jerzy Leppert, Professor Lisa Söderström, Research Assistant</p>	<i>Pain assessment with validated scales.</i>
20/10/2015	X		<p><i>Torsten Morell</i>, Resident Physician General Medicin, Ängsgården Health Centre</p> <p>From CCR-V: Monica Löfvander, Ass. Professor Lisa Söderström, Research Assistant</p>	<i>Evaluation of the diagnosis of deep vein thrombosis in primary care.</i>
08/12/2015	X		<p><i>Athir Tarish</i>, Senior Consultant, Dept. of Geriatrics, Västmanland Hospital</p> <p>From CCR-V: Göran Nilsson, Professor Lisa Söderström, Research Assistant John Öhrvik, Professor</p>	<i>Planning a systematic prospective review of inpatients with focus on 1. Nutritional status, 2. Sarcopenia with muscle weakness and 3. Anthropometric measurements (especially body weight). These variables will be considered in relation to 2-year survival.</i>

Registered PhD students

Genotype and epigenetic profiling of candidate genes associated with early life stress and antisocial outcomes

D74

2015-10

PhD student Dave Checknita, Master in Neuroscience
Department CCR-V
Supervisor Kent Nilsson, Professor, CCR-V
Assistant supervisors Cecilia Åslund, Ass. Professor, CCR-V
 Sheilagh Hodgins, Professor, Université de Montréal, Québec, Canada
Admitted 8th of October 2015
Licentiate 2017
Doctoral dissertation -
Institution Department of Neuroscience/CCR-V
Subject Medical Sciences
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5 -11. credits)
 Courses specifically required for the doctoral studies subject (3.5 -6.5 credits)
Cumulative credits Optional training modules, certified by supervisor:credits.
 Literature studies Seminars Congresses
 Specific courses

Subprojects

- 1) We will explore methylation profiles at previously identified regions of interest (ROIs) in candidate genes implicated in antisocial behaviour including monoamine oxidase A (MAOA), serotonin transporter (SERT), catechol-o-methyl transferase (COMT), and brain-derived neurotrophic factor (BDNF). Compare ROI methylation profiles between case and control groups
- 2) We will assess if environmental factors (i.e. physical and/or sexual abuse, positive parenting) associate with candidate gene ROI methylation profiles between case and control groups.
- 3) We will explore interactions between environmental factors and genotype towards candidate gene ROI methylation profiles. In addition, explore interactions between environmental factors and ROI methylation towards clinical outcomes in case and control groups.
- 4) Explore polygenic genotypic interactions, in relation with candidate gene ROI methylation, towards clinical outcomes (CD or ASPD scores, etc.) in case and control groups.

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
01/08/2015-30/10/2015	
01/11/2015-31/12/2016	

Genotype, transcript, and epigenetic profiling of MAOA in relation to early life stress and alcohol consumption

D73

2015-11

PhD student **Megha Bendre**, Master in Pharmacology
Department CCR-V
Supervisor Kent Nilsson, Professor, CCR-V
Assistant supervisors Erika Comasco, Ass. Professor, Dept. of Neuroscience, Uppsala University
 Ingrid Nylander, Professor, Pharmaceutical Biosciences, Uppsala University
Admitted 1st of July 2015
Licentiate 2017
Doctoral dissertation -
Institution Dept. of Neuroscience/CCR-V
Subject Medical sciences
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits Required courses, documented in *Updok*: **4.5** credits
 Common required (introduction to scientific research, etc. (8.5 -11. credits)
 Courses specifically required for the doctoral studies subject (3.5 -6.5 credits)

Cumulative credits Optional training modules, certified by supervisor: **1.5** credits
 Literature studies Seminars Congresses
 Specific courses

Subprojects

- MAOA-uVNTR genotyping and its methylation in SALVe-2012 cohort.
- DNA methylation of *Maoa* gene in mesocorticolimbic brain regions of rats exposed to prolonged maternal separation and alcohol.

Planned articles

Effect of voluntary alcohol consumption on Maoa expression in mesocorticolimbic brain regions of rats previously exposed to prolonged maternal separation. Translational Psychiatry, 2015

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
01/05/2015-31/08/2015	
01/09/2015-31/12/2016	

The development of Swedish diabetes care within primary health care and factors which contribute to an equal care for individuals with type 2 diabetes

D72

2015-11

PhD student	Rebecka Husdal , Master in Public Health
Department	CCR-V
Supervisor	Andreas Rosenblad, Ass. Professor, CCR-V
Assistant supervisors	Eva Thors Adolfsson, PhD, Primary Health Care Janeth Leksell, Ass. Professor, Dept. of Medical Science, Clinical Diabetology and Metabolism, Uppsala University
Admitted	2 nd of June 2015
Licentiate	Spring 2017
Doctoral dissertation Institution	- Dept. of Medical Sciences, Clinical Diabetology and Metabolism, Uppsala University/CCR-V
Subject	Medical Science
Research training	Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits	<u>Required courses</u> , documented in <i>Updok</i> : 1.5 credits <input type="checkbox"/> Common required (introduction to scientific research, etc. (8.5 -11. credits) <input type="checkbox"/> Courses specifically required for the doctoral studies subject (3.5 -6.5 credits)

Subprojects

1. Resource allocation and organizational features in Swedish primary diabetes care: Changes from 2006 to 2013.
2. Associations between organizational structure, processes and working methods in diabetes care and the possibilities of type 2 diabetes patients to reach national treatment targets for HbA1c

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
	2016: 1 week		2014: 50 000 SEK 2016: 53 000 SEK	2014: 30 000 SEK 2015: 150 000 SEK 2016: 48 000 SEK

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	2014, The National Board of Health and Welfare, 100 000 SEK 2015, Uppsala and Örebro Regional Research Council, 400 000 SEK 2016, Uppsala and Örebro Regional Research Council, 300 000 SEK

Acute diverticulitis – aspects of Radiologic diagnosis

D71

2015-11

PhD student	Arnar Thorisson, M.D.
Department	Dept. of Radiology, Västmanland Hospital Västerås
Supervisor	Kenneth Smedh, Prof., CCR-V/Dept. of Surgery
Assistant supervisors	Abbas Chabok, PhD, CCR-V/Dept. of Surgery Michael Torkzad, PhD, Dept. of Radiology, University College London, UK Maziar Nikberg, PhD, CCR-V/Dept. of Surgery
Admitted	21 st of April 2015
Licentiate	
Doctoral dissertation	Autumn 2018
Institution	Uppsala University, Dept. of Surgical Science/CCR-V
Subject	Surgical Science
Research training	Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits	<u>Required courses</u> , documented in <i>Updok</i> :credits <input type="checkbox"/> Common required (introduction to scientific research, etc. (8.5-11.5 credits)) <input type="checkbox"/> Courses specifically required for the doctoral studies subject (3.5-6.5 credits)
Cumulative credits	<u>Optional training modules</u> , certified by supervisor:credits <input type="checkbox"/> Literature studies <input type="checkbox"/> Seminars <input type="checkbox"/> Congresses <input type="checkbox"/> <input type="checkbox"/> Specific courses

Subprojects

Investigate if CT can predict complications or recurrence of diverticulitis in patients with preliminary uncomplicated diverticulitis (published).

Investigate if patients with uncomplicated diverticulitis can safely be treated without antibiotics in an outpatient setting (published).

Investigate if CT can predict the need for operation in patients with perforated diverticulitis.

Investigate if a clean colon study (in the form of colonoscopy or CT colon) is required in patients with uncomplicated diverticulitis to rule out malignancy.

Investigate the roll of different CT protocols in diagnostics for patients with suspected acute diverticulitis.

Published articles

Thorisson A, Smedh K, Torkzad MR, Pählman L, Chabok A. *CT imaging for prediction of complications and recurrence in acute uncomplicated diverticulitis*. **Int J Colorectal Dis. 2015 Oct 21. [Epub ahead of print]**.

Isacson D, **Thorisson A**, Andreasson K, Nikberg M, Smedh K, Chabok A. *Outpatient, non-antibiotic management in acute uncomplicated diverticulitis; a prospective study*.

Int J Colorectal Dis. 2015 Sep;30(9):1229-1234

Received funding during doctoral studies

Västmanland County Council				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund

External research grants	
Externally funded doctoral studentship/research time	Other external grants

Acceptance & Commitment Therapy for acute psychosis

D70

2015-10

PhD student **Mårten Tyrberg**, lic psychologist, lic. psychotherapist
Department Psykosmottagningen Öster, Västmanland Hospital Västerås
Supervisor Per Carlbring, Professor of clinical psychology, Stockholm University.
Assistant supervisors Tobias Lundgren, Karolinska Institute, Dept. of Clinical Neuroscience & Centre for Psychiatry Research and Education, Stockholm County Council, affiliate researcher, Stockholm University; Kent Nilsson, Professor, CCR-V.
Admitted 1st of September 2014, PhD programme, Stockholm University (CCR-V 11th of February 2015)
Licentiate
Doctoral dissertation Planned 2020
Institution Dept. of Psychology, Stockholm University, CCR-V
Subject Psychology
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Ladok*: **61credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

Brief Acceptance & Commitment Therapy for Psychotic Inpatients: A Randomized Controlled Feasibility Trial in Sweden.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
				2015, 58 000

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
2014-2020, 50%, Västmanland County Council	2015, Stockholm University, miscellaneous grant, 4500 SEK.

Avoiding atelectasis during general anaesthesia - the role of early re-establishment of low oxygen concentration after preoxygenation and successful intubation

D69

2015-11

PhD student Erland Östberg, M.D.
Department Dept. of Anaesthesia and Intensive Care, Västmanland Hospital Västerås
Supervisor Mats Enlund, Ass. Professor, CCR-V
Assistant supervisors Lennart Edmark, PhD, Dept. of Anaesthesia and Intensive Care, Västmanland Hospital Västerås
Admitted 20th of January 2015
Licentiate
Doctoral dissertation 2018
Institution Uppsala University, Dept. of surgical science
Subject Medical science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. *Perioperative oxygenation in patients with morbid obesity receiving a protective ventilatory approach during laparoscopic gastric bypass: a randomized controlled study.*
2. *Avoiding atelectasis during anaesthesia by ventilating a short period with air and high fresh gas flow for preoxygenation elimination – a randomized controlled trial.- manuscript*
3. *Peroperative use of positive end-expiratory pressure (PEEP) prevents formation of atelectasis as studied by computerised tomography at end of surgery.- start November 2015*

Published articles

Edmark L, Östberg E, Scheer H, Wallquist W, Hedenstierna G, Zetterström H.

Preserved oxygenation in obese patients receiving protective ventilation during laparoscopic surgery: a randomized controlled study.

Acta Anaesthesiol Scand. 2015 Aug 3 - Epub ahead of print

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2016: 4 weeks				2014, 50 000SEK

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

Evaluation of established algorithms and derivation of new algorithms for diagnosis and classification of left ventricular diastolic dysfunction

D68

2015-11

PhD student Jonas Selmeryd, M.D.
Department Department of Physiology
Supervisor Pär Hedberg, Ass. Professor, CCR-V
Assistant supervisors Jerzy Leppert, Professor, CCR-V
Admitted 16th of December 2014
Licentiate
Doctoral dissertation 2022
Institution Medical science/CCR-V
Subject Medical science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. Interstudy heterogeneity of definitions of diastolic dysfunction severely affects reported prevalence (*Eur Heart J Cardiovasc Imaging*. 2015 Sep 15. pii: jev211. [Epub ahead of print])
2. Normative Z-score reference equations for doppler parameters reflecting left ventricular diastolic dysfunction
3. Proposed algorithm for classification of diastolic function by means of cluster analysis
4. Evaluation of proposed algorithm for diagnosis and classification of diastolic function in subjects at high risk for cardiovascular events

Planned articles**Received funding during doctoral studies**

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2012: 4 weeks 2013: 4 weeks 2014: 6 weeks 2015: 0 weeks 2016: 2 weeks	2016: 5 weeks			

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

Minimizing iodine contrast media use in lower limb CT angiography and digital subtraction angiography

D67

2015-11

PhD student Jakob Swanberg, M.D.
Department Department of Radiology, Västerås
Supervisor Anders Wanhainen, Professor, Department of Surgery Sciences, Uppsala University
Assistant supervisors Håkan Ahlström, Professor, Department of Surgery Sciences, Uppsala University
Contact at CCR-V Mats Enlund, Ass. Professor, CCR-V
Admitted 25th of January 2011
Licentiate
Doctoral dissertation
Institution Centre for clinical research
Subject Medical science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **18 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

1. Ultra-low iodine concentrations iso-attenuating with diagnostic 0.5 M gadolinium in endovascular procedures to minimize the risk of contrast nephropathy. A phantom study
2. Selective intra-arterial dual-energy CT angiography (s-CTA) in lower limb arterial occlusive disease", är publicerat i European Journal of Vascular and Endovascular Surgery
3. s-CTA vs DSA, a prospective single-arm accuracy study
4. Iliaco-pedal contrast transit time, implications for CT angiography

Planned articles**Received funding during doctoral studies**

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions (50 %)	Internal R&D (FoU) grant	County Council research fund

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
ALF (agreement on medical training and research) funding via Uppsala University: H14: 20 %	

**Potential progression markers and HPV in primary vaginal cancer:
clinical and diagnostic impact**

D66

2015-11

PhD student	Cecilia Ranhem, M.D.
Department	Department of Obstetrics and Gynecology, Västmanland Hospital Västerås
Supervisor	Prof. Sonia Andersson, Dept. for Women's and Children's Health, Karolinska Institute
Assistant supervisors	Kristina Hellman, M.D., PhD, Dept. of Oncology-Pathology, Karolinska Institute David Lindquist, M.D., PhD, Dept. of Radiation Science, Umeå University Ann-Cathrin Hellström, Ass Prof, Dept. of Oncology-Pathology, Karolinska Institute
Admitted	1 st of June 2014
Licentiate	
Doctoral dissertation	Planned autumn 2019
Institution	Dept. of Women's and Children's Health, Karolinska Institute/CCR-V
Subject	Medical science
Research training	Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits	<u>Required courses: 24 credits</u> <input checked="" type="checkbox"/> Common required (introduction to scientific research, etc (8.5 – 11.5 credits) <input checked="" type="checkbox"/> Courses specifically required for the doctoral studies subject (3.5 – 6.5 credits)
Cumulative credits	<u>Optional training modules, certified by supervisor: 2.4 credits</u> <input type="checkbox"/> Literature studies <input type="checkbox"/> Seminars <input type="checkbox"/> Congresses <input checked="" type="checkbox"/> National research school for clinical cancer research (see credits above)

Subprojects

- Human papillomavirus, p16^{INK4A} and Ki-67 in relation to clinicopathological variables and survival in primary carcinoma of the vagina.
- HPV and the molecular markers p16^{INK4A} and Ki 67 in primary carcinoma of the vagina.
- Expression of human leucine-rich repeats and immunoglobulin-like domains (LRIG) genes in primary carcinoma of the vagina.
- Possible prognostic value of Wig-1 in primary carcinoma of the vagina.

Planned articles

Hellman K, Lindquist D, Ranhem C, Wilander E, Andersson S. Human papillomavirus, p16^{INK4A} and Ki-67 in relation to clinicopathological variables and survival in primary carcinoma of the vagina. Br J Cancer 2014 Mar 18;110(6):1561-70

Planned articles with each subproject.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2014: 4 weeks				

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

Rectal cancer: aspects of type of operation and complications

D65

2015-11

PhD student Ingvar Sverrisson, M.D.
Department Dept. of Surgery, Västmanland Hospital Västerås
Supervisor Kenneth Smedh, Prof., CCR-V/Dept. of Surgery
Assistant supervisors Maziar Nikberg, PhD, CCR-V/Dept. of Surgery
 Abbas Chabok, PhD, CCR-V/Dept. of Surgery

Admitted September 2014
Licentiate
Doctoral dissertation Autumn 2018
Institution Uppsala University, Department of Surgical Science
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects and planned articles

- Hartmanns procedure in rectal cancer: a population-based study of postoperative complications*
- Analyse morbidity and mortality after Hartmann's operation for rectal cancer in a national population-based study with data from Svenska rektalcancerregistret (SRCR).*
- Compare abdominoperineal excision with intersphincteric dissection for rectal cancer with Hartmann's operation regarding pelvic morbidity, i.e. pelvic abscesses and perineal wound infections: a multicentric randomised study (HAPIrect).*
- Compare abdominoperineal excision with intersphincteric dissection for rectal cancer with Hartmann's operation regarding quality of life: a multicentric randomised study.*
- Compare the development of stoma hernia in patients with rectal cancer who have had surgery performing permanent colostomy, where patients during two different time periods received prophylactic nets, or not. A population-based registry study with data from the local cancer registry in Västmanland.*
- Investigate if patients with rectal cancer who have had bowel resections and who earlier in life have received radiation to the prostate due to prostate cancer have more postoperative complications, more recurrences and poorer survival rates compared to patients with rectal cancer who have had prostate cancer but not received radiotherapy to the prostate.*

Received funding during doctoral studies

Västmanland County Council				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund

External research grants	
Externally funded doctoral studentship/research time	Other external grants

Treatment of acute uncomplicated diverticulitis

D64

2015-11

PhD student Daniel Isacsson, M.D.
Department Dept. of Surgery, Västmanland Sjukhus Västerås
Supervisor Kenneth Smedh, Prof., CCR-V/Dept. of Surgery
Assistant supervisors Abbas Chabok, M.D., PhD, CCR-V/Dept. of Surgery
 Maziar Nikberg, M.D., PhD, CCR-V/Dept. of Surgery
Admitted 19th of June 2014
Licentiate
Doctoral dissertation
Institution Uppsala University, Department of Surgical Science
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

- No antibiotics in acute uncomplicated diverticulitis. Does it work?
Published Scandinavian Journal of Gastroenterology Dec 2014
- Outpatient on antibiotic management of acute uncomplicated diverticulitis is safe: a prospective study
Published International Journal of Colorectal Disease Sep 2015
- AVOD study; 5-year follow-up

Planned articles

1. *No antibiotics in acute uncomplicated diverticulitis. Does it work?*
2. *Outpatient management without antibiotics for acute uncomplicated diverticulitis is safe: a prospective study*

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions	Internal R&D (FoU) grant	County Council research fund
2016: 4 weeks		50 %		

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

HPV-associated cancer in HIV-infected women

D63

2015-11

PhD student **Christina Carlander, M.D.**
Department Dept. of Infectious Diseases, Västerås
Supervisor Anders Sönnernborg, Prof., Karolinska Institute
Assistant supervisors Joakim Dillner, Prof. Karolinska Institute
 Pär Sparén, Prof., Karolinska Institute
 Kristina Elfgren, Senior Physician, Karolinska Hospital
Contact at CCR-V Jerzy Leppert, Prof.
Admitted 21st of January 2014
Half-time control April/May 2016
Doctoral dissertation
Institution Department of Medicine, Huddinge, KI/CCR-V
Subject Medical science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits Required courses: 4.5 credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)
 Introduction to SPSS, Karlstad, (3 credits)
 Introduction to STATA, KI, 2014 (1.5hp)
 Epidemiology I, KI (1.5 credits), Basics in Medical Statistics, KI (3 credits),
 Biostatistics I, KI (3 credits), Present your research, KI (1.5hp), Scientific
 methodology CCR-V (7.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

1. *Risk of cervical neoplasia among HIV-infected women in Sweden*
2. *Distribution of HPV-genotypes among high-grade cervical neoplasia among HIV-infected and HIV-negative women in Sweden*
3. *Outcomes after diagnosis of high-grade cervical neoplasia among HIV-infected women*
4. *Time to start HIV-testing women with high-grade cervical neoplasia*

Planned articles

High risk of high-grade cervical neoplasia among HIV-infected migrants in Sweden (submitted)

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2013: 8 weeks 2014: 6 weeks 2015: 8 weeks	2015:4 weeks			

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	Läkare mot AIDS forskningsfond (Doctors against AIDS research fund) 150 000

Staphylococcus epidermidis and prosthetic joint infections – host-microbe interactions

D62

2015-11

PhD student Emeli Månsson, M.D.
Department Dept. of Infectious Diseases, Västmanland Hospital Västerås
Supervisor Bo Söderquist, Professor, Örebro University
Assistant supervisors Martin Sundqvist, M.D, PhD, Örebro University Hospital
 Åsa Nilsson, Senior Consultant, PhD, Linköping University
 Eva Särndahl, Professor, Örebro University
Contact at CCR-V Leif Bergkvist, Professor
Admitted 18th of November, 2013
Licentiate
Doctoral dissertation
Institution IHM, Örebro University/CCR-V
Subject Medical science, medicine
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.
Cumulative credits Required courses (15 credits)
 General scientific methods in medical science 15 hp
Optional courses (20-30 credits)
 Antimicrobial therapy, 1.5 credits Update on implant infections, 0.9 credits
 Cellular and molecular infection biology 3 credits
Cumulative credits Optional courses, certified by supervisor:
 Literature studies Seminars Congresses
 Specific courses

Subprojects

- Coagulase-negative staphylococci isolated in the laminar airflow during prosthetic joint surgery, focusing on phenotype and genotype of *S. epidermidis*
- Changes in the skin's normal flora in patients undergoing artificial joint surgery – a descriptive study of 100 prospectively collected CoNS isolates from patients with focus on *S. epidermidis*
- Host-microbe interactions: Has *S. epidermidis* isolated from infected joints the capacity to initiate activation of the inflammasome in polymorphonuclear leukocytes?
- Host-microbe interactions: Are there genetic host factors that increase the risk of prosthetic joint infections?

Published articles

Månsson E, Hellmark B, Sundqvist M, Söderquist B

Sequence types of Staphylococcus epidermidis associated with prosthetic joint infections are not present in the laminar airflow during prosthetic joint surgery.

APMIS. 2015 Jul;123(7):589-595 - Epub 2015 May 8

Received funding during doctoral studies

Västmanland County Council				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2014: 6 weeks				50 000
2015: 6 weeks	2015: 2 weeks			50 000

External research grants	
Externally funded doctoral studentship/research time	Other external grants
	2014: Folke Nordbrings stiftelse: 4638 SEK 2014: SLS resestipendium: 4036 SEK 2014: Örebro University 20 000 SEK 2015: Örebro University 10 000 SEK

Pneumococcal meningitis - risk factors, sequelae and death in relation to other bacterial infections of the central nervous system

D61

2015-12

PhD student Nils Block, M.D.
Department Dept. of Infectious diseases, Västerås
Supervisor Birgitta Henriques Normark, Professor, MTC, Karolinska Institute
Assistant supervisors Tomas Vikerfors, Ass. Prof., Dept. of Infectious Diseases in Västerås/CCR-V
 Pontus Naucclér, MD, Dept. of Infectious Diseases, Karolinska University Hospital
Contact at CCR-V Philippe Wagner, statistician
Admitted December 2013
Licentiate -
Doctoral dissertation Planned late 2017
Institution MTC, Karolinska Institute/CCR-V
Subject Infection biology
Research training According to the curriculum of Karolinska Institute

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

- To study the etiology and epidemiology of bacterial meningitis in Sweden and the impact of pathogen specific and clinical factors on burden of disease
- To study the impact of pneumococcal properties and clinical factors on disease development in pneumococcal meningitis
- To study the significance of pathogen and clinical factors for short and long time sequelae in meningitis caused by *S. pneumoniae*
- To study the role played by pathogen and clinical factors for short term mortality in pneumococcal meningitis

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions	Internal R&D (FoU) grant	County Council research fund
2014: 6 weeks	-	50 %	2014: 30000 SEK	2014: 30000 SEK

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
2014-2017: Karolinska Institute part-financing of PhD student (KID): 1080000 SEK (270000 SEK per year)	-

Quality of life and musculoskeletal deformities in children with cerebral palsy

D60**2015-11**

PhD student	Katina Pettersson , reg. physiotherapist
Department	Centre for Habilitation, Västerås
Supervisor	Gunnar Hägglund, Professor, Department of Orthopedics, Lund University
Assistant supervisors	Elisabet Rodby-Bousquet, PhD, reg. physiotherapist, CCR-V
Admitted	1 st of December 2013
Licentiate	
Doctoral dissertation	
Institution	Clinical Sciences, Lund University
Subject	Orthopedics
Research training	According to the curriculum of Lund University, 10 credits + 12 credits
Cumulative credits	<u>Required courses</u> , documented in Lund 5 credits /10 credits <input checked="" type="checkbox"/> Introduction Course <input type="checkbox"/> Research Ethics <input type="checkbox"/> Statistical Methods within Medical Research <input type="checkbox"/> Scientific communication <input type="checkbox"/> Oral Communication <input checked="" type="checkbox"/> Courses specifically required for the doctoral studies, Orthopedics 4 weeks Has taken Research Ethics and Statistical methods I.
Cumulative credits	<u>Optional training modules</u> , certified by supervisor: ...credits/12 credits <input checked="" type="checkbox"/> Research based on registry data, Umeå University

Subprojects

- Psychometric evaluation of the questionnaire CPCHILD “*Caregiver Priorities and Child Health Index of Life with Disabilities*”, for Swedish conditions. CPCHILD is a measure of overall health and quality of life for children and adolescents with severe cerebral palsy.
- Descriptive cross-sectional study on the use of spinal braces on a total population of children with CP in Sweden, born 2000-2013.
- Retrospective longitudinal study on a total population of children and adolescents with CP born 1992-2013, as part of the Swedish CPUP registry, regarding the use of spinal brace.
- Retrospective longitudinal study on a total population of children and adolescents with CP born 1992-2013, as part of the Swedish CPUP registry, regarding the use of different types of standing aids.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions	Internal R&D (FoU) grant	County Council research fund
	2015: 4 weeks	50 %		

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
2014: RBU – 40 000 kr	
2014: Linnéa och Josef Carlssons Stiftelse – 100 000 kr	

Cancer morbidity in prosthetic surgery

D59

2015-12

PhD student Philippe Wagner, biostatistician
Department CCR-V
Supervisor Håkan Olsson, Professor, Cancer Epidemiology, Lund University
Assistant supervisors Lars Lidgren, Professor, Orthopedics, Lund University
Admitted 1st of December 2010
Half-time control 19th of November 2015
Doctoral dissertation 2016
Institution Clinical Sciences, Lund University/CCR-V
Subject Cancer epidemiology
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in Lund **7 credits**/8.5 credits
 Introduction Course Research Ethics
 Statistical Methods within Medical Research Scientific communication
 Oral Communication

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses
 Half-time control Specific courses

Subprojects

Increased cancer risks among arthroplasty patients: 30 year follow-up of the Swedish Knee Arthroplasty Register. Eur J Cancer. 2011 May;47(7):1061-1071

Metal-on-metal joint bearings and hematopoietic malignancy. Acta Orthop 2012 Dec; 83(6):553-558

Oral contraceptive use, parity and constitutional characteristics in soft tissue sarcoma: a Swedish population-based case-control study 1988-2009. Cancer Causes Control. 2014 Sep; 25(9):1167-1177

Planned articles

Familial cancer risk, oral contraceptive use and soft tissue sarcoma. Tissue damage and soft tissue sarcoma.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
		1 st of Jul 2014 – 30 th of Jun 2016		

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

Bone formation and healing adjacent to biomaterials in the facial skeleton using PET/CT

D58

2015-12

PhD student **Anders-Petter Carlsson, DDS**
Department Department of Oral Maxillofacial Surgery, Västmanland Hospital, Västerås
Supervisor Andreas Thor, Ass. Prof., Department of Surgical Science, Oral - Maxillo Surgery, Uppsala University
Assistant supervisors Jens Sörensen, Ass. Prof., Department of Surgical Science, Orthopaedics, Uppsala University
Contact at CCR-V Philippe Wagner, statistician
Admitted 16th of December 2013
Licentiate
Doctoral dissertation Autumn 2016
Institution Department of Surgical Science, Oral - Maxillo Surgery, Uppsala University /CCR-V
Subject Surgical science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

- PET7CT. A novel method to investigate bone healing around dental implants
- PET/C used to compare early bone formation between two different dental implant surfaces. A clinical study.
- Imaging of new bone formation with Poistron Emission Tomography and Computed Tomography (PET/CT) around dental implants in augmentations of the atrophic edentulous maxilla. A clinical study.
- PET/CT used to investigate bone formation adjacent to TMJ-prosthesis. A clinical retrospective study.

Recieved funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

New diagnostic modalities in breast cancer assessment

D57

2015-12

PhD student Virginia Gonzalez, M.D.
Department Department of Surgery, Västmanland Hospital, Västerås
Supervisor Staffan Eriksson, Ass. Prof, Dept. of Surgery, Västmanland Hospital Västerås
Assistant supervisors Kerstin Sandelin, Prof., Department of Molecular Medicine and Surgery, Karolinska Institute.
 Brita Arver, PhD, Department of Oncology and Pathology, Karolinska Institute
 Leif Bergkvist, Professor, Center for Clinical Research, Västerås
Admitted 13th of November 2013
Licentiate
Doctoral dissertation
Institution Center for Clinical Research, Uppsala University
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

1. *PreOperative MRI of the Breast (POMB) influences primary treatment in breast cancer – A prospective randomized multicenter study*
2. *Breast MRI provided additional information in 83/220 patients shown in study one. These findings will be further analyzed and described in detail. MRI findings will be compared with pathological findings. Breast density will be correlated to re-excision/reoperation in the no MRI group.*
3. *This study will be a 5-year follow-up of the POMB patients on morbidity and survival. Health-related economic consequences will be further studied and the EQ5D survey will be presented. All eligible patients for the POMB study were not included in the trial during the study period. These patients will be studied closer regarding surgical treatment and reoperation rate.*
4. *The aim of this study is to compare breast MRI and contrast-enhanced mammography in the assessment of breast cancer in women with dense breast tissue. Radiology will be compared with histopathological analysis. Sensitivity, specificity, positive predictive value and negative predictive value will be calculated for each modality. Results of follow-up of MRI after 3-6 months will be reported.*

Received funding during doctoral studies

Västmanland County Council				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2013: 8 weeks				
2014: 4 weeks				

External research grants	
Externally funded doctoral studentship/research time	Other external grants
	BRO

**Ultrasound Pregnancy Dating and Risk for Perinatal Morbidity and Mortality –
When Dates Mismatch**

D56

2015-11

PhD student Merit Kullinger, M.D.
Department Dept. of Obstetrics and Gynecology, Västmanland Hospital, Västerås
Supervisor Alkistis Skalkidou, Ass.Prof., Institution of Women's and Children's Health, Uppsala University
Assistant supervisors Helle Kieler, Ass. Prof., Centre for Pharmacoepidemiology, Solna
 Ulf Högberg, Professor, Institution of Women's and Children's Health, Uppsala University
Contact at the CCR-V Mats Enlund, Ass. Prof.
Admitted 11th of June 2014
Licentiate Planned for the spring of 2016
Doctoral dissertation Planned during 2018
Institution Institution of Women's and Children's Health/ CCR-V, Uppsala University
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*:credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Introduction to scientific research 9 credits
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. To examine if differences in perinatal morbidity and mortality between boys and girls born prematurely changed after ultrasound was introduced in Sweden as a method of determining gestational age.
2. To examine the rates of adverse pregnancy outcomes between preterm born infants of different sex but similar gestational age based on the level of discrepancy between the LMP and US-based dating.
3. To compare the rates of adverse pregnancy outcomes among post- and pre-term newborns born to short and tall mothers, respectively, according to the discrepancy between LMP and US-based pregnancy dating.
4. To describe factors associated with a difference in gestational length between the LMP calculation, and ultrasound examination in the first and in the early second trimester, respectively.

Planned articles

According to subprojects above. There are manuscripts for the first two subprojects.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2014: 6 weeks	2014: 8 weeks			2012 75000 SEK
2015: 4 weeks	2015: 6 weeks			2015: 147000 SEK
2016: 8 weeks	2016: 7 weeks			

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	Regional Research Fund 2014: 200000 SEK
	Regional Research Fund 2015: 400000 SEK

**Lifestyle and reproductive health in multicultural Sweden: a prospective study
of women seeking help for infertility**

D55

2015-11

PhD student Lana Salih Joelsson, M.D.
Department Dept. of Obstetrics and Gynecology, Västmanland Hospital, Västerås
Supervisor Tanja Tydén, Professor, Department for Public Health and Caring Science, Uppsala University
Assistant supervisors Kjell Wånggren, PhD, Institution of Women's and Children's Health, Uppsala University
 Anna Berglund, PhD, National Women's Peace Center, Uppsala University
 Andreas Rosenblad, Ass. Prof., CCR-V
Admitted 23rd of April 2013
Licentiate Planned 10th of March 2016
Doctoral dissertation 20th of April 2018
Institution Dept. of Public Health and Caring Science, Uppsala University, Dept. of Women's and Children's Health, Uppsala University, CCR-V
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: 11.5 credits
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)
 Introduction to doctoral studies/ Uppsala University 1.5 credits.
 Introduction to Scientific Research/ Uppsala University 9 credits
 Introduction to SPSS/Karlstad University 3.0 credits. Course in Embryology/ Karolinska Institute 1.5 credits. Writing course/ Uppsala University 1.5 credits.
 Writing course/ CCR-V 2.5 credits.

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses
 Specific courses
 1. Participated in congress 1.5 credits ASRM Baltimore/USA October 2015

Subprojects

1. *What lifestyle changes (diet, smoking/snuff, consumption of alcohol and caffeine, intake of folic acid and Vitamin D, exercise, and possibly weight regulating measures) do women who want to get pregnant undertake?*
2. *The degree of stress, anxiety and depression that the infertile women experience before, during and after pregnancy, compared to the spontaneously pregnant.*
3. *The three groups; "pregnant by using assisted reproduction", "not pregnant infertile women" and "pregnant spontaneously but well planned" (from the MVC study) are compared with respect to changes in the variables: alcohol and caffeine intake, BMI, smoking, intake of folic acid, vitamin and herbal consumption, doctor visits, medication, exercise and diet.*
4. *Swedish-born compared with foreign-born infertile women in terms of demographic and socio-economic backgrounds in relation to pregnancy planning; length of infertility, when they first seek help, and the time until the woman become pregnant. A translation into Arabic is planned, in order to include women in the study who do not speak Swedish. Are there differences between the two groups in terms of the partner's role in pregnancy planning and lifestyle changes?*

Planned articles

1. "Is pregnancy planning associated with background characteristics and pregnancy planning behavior?" Accepted by **Acta Obstetrica et Gynecologica Scandinavica**.
2. "Preconception lifestyle and lifestyle modifications among women seeking infertility treatment". In manuscript.
3. "Anxiety and depression among infertile women and women pregnant after assisted reproductive technology treatment". In manuscript.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2013:57000	2014: 4 weeks			

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	Regional Research Fund 2013: 100 000 Regional Research Fund 2013: 100 000 Regional Research Fund 2013: 150 000

Genetics of alcohol use disorders

D53

2015-11

PhD student **Aniruddha Todkar**, MSc Molecular biology, pharmacist
Department CCR-V/Department of Neuroscience, Uppsala University
Supervisor Erika Comasco, PhD, Dept. of Neuroscience, Uppsala University
Assistant supervisors Prof. Kent Nilsson, CCR-V
 Prof. Sheilagh Hodgins, Stockholm County Council/Kings College, London
 Prof. Lars Oreland, Dept. of Neuroscience, Uppsala University

Admitted 21st of June 2012
Half-time examination 2015
Doctoral dissertation 1st of June 2016
Institution Dept. of Neuroscience, Uppsala University/CCR-V
Subject Medicine and pharmacy
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **20.5 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor: **3.5 credits (to be registered)**
 Literature studies Seminars Congresses (2 credits)
 Journal club (1.5 credits) Specific courses

Subprojects

- Trajectory of outcomes for alcohol use and misuse through the lens of gene-by-environment interactions
- Genetic and epigenetic profiling in relation to early-life stress and ethanol binge drinking in rats

Planned articles

- *Stress and DNA methylation regulatory genes in the hypothalamus and pituitary of rats exposed to early life stress and adult voluntary ethanol drinking (under review)*
- *Early life stress alters ethanol-induced effects on mesocorticolimbic FKBP5 gene expression in adult rats (Manuscript)*
- *Alcohol use disorder: moderation by FKBP5 genotype and environment interaction in humans.*

Published articles

- Todkar A, Nilsson KW, Oreland L, Hodgins S, Comasco E: *Serotonin transporter genotype by environment: Studies on alcohol use and misuse in non-human and human primates* Translational Neuroscience 4(2) 2013, 241-250
- Comasco, E, Todkar, A, Granholm, L, Nilsson, KW & Nylander, I. (2015): *Alpha 2a-Adrenoceptor Gene Expression and Early Life Stress-Mediated Propensity to Alcohol Drinking in Outbred Rats*. International Journal of Environmental Research and Public Health, 12(7), 7154–7171

External research grants	
Externally funded doctoral studentship/research time	Other external grants
1 st of March 2012 – 31 st of March 2012	
1 st of January 2013 – 31 st of December 2013	
1 st of January 2014 – 31 st of December 2014	
1 st of January 2015 – 31 st of December 2015	

**Psychosocial and genetic factors in relation to gambling behavior among children
and adolescents in Västmanland**

D52

2015-11

PhD student Sofia Vadlin, Bachelor of Science in Social Work
Department Dept. of Child and Adolescent Psychiatry/CCR-V
Supervisor Prof. Kent W Nilsson, CCR-V
Assistant supervisors Cecilia Åslund, Ass. Prof., CCR-V
 Erika Comasco, Ass. Prof., Dept. of Neuroscience, Uppsala University
Admitted 21st of June 2012
Licentiate 3rd of November 2015
Doctoral dissertation Planned 2016
Institution Dept. of Neuroscience, Uppsala University/CCR-V
Subject Psychiatry
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **16.5 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)
 Psychometry 7.5hp

Cumulative credits Optional training modules, certified by supervisor:credits
 Literature studies Seminars Congresses

Subprojects

1. *Gaming and gambling behaviour in adolescents in relation to interaction between environmental and genetic factors.*
2. *Gaming and gambling behaviour in adolescents in relation to degree of methylation in candidate genes for monoamines, androgenes and neuropeptides.*
3. *Gaming and gambling behaviour in adolescents in relation to psychiatric conditions such as affective disorders and antisocial behaviour and in relation to interaction between environmental and genetic factors.*
4. *Gaming and gambling behaviour in adolescents in relation to alcohol and drug abuse and in relation to interaction between environmental and genetic factors.*

Subprojects (published)

- 1) Development and content validity of a screening instrument for gaming addiction in adolescents, the Gaming Addiction Identification Test (GAIT)
- 2) Psychometric evaluation of the adolescent and parent version of the Gaming Addiction Identification Test (GAIT)

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2012: 4 weeks				

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
2012-2014: financed by Svenska Spel (90 %)	

Nutritional screening among older adults. Risk factors for and consequences of malnutrition

D50 **2015-10**

PhD student Lisa Söderström, Registered Dietician, Med. lic
Department CCR-V
Supervisor Prof. Leif Bergkvist, CCR-V
Assistant supervisors Eva Thors Adolfsson, PhD, Department of Primary Health Care
 Andreas Rosenblad, Ass. Prof., CCR-V
 Anja Saletti, PhD, Department of Public Health and Caring Science, Clinical Nutrition and Metabolism, Uppsala University

Admitted 15th of June 2011
Licentiate 15th of October 2013
Doctoral dissertation 26th of February, 2016
Institution Dept. of Public Health and Caring Science, Clinical Nutrition and Metabolism, Uppsala University /CCR-V

Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **10.5 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor: **20 credits**
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. *Mealtime habits and meal provision are associated with malnutrition among elderly patients admitted to hospital.*
2. *A high energy intake from dietary fat among middle-aged and older adults is associated with increased risk of malnutrition 10 years later.*
3. *Nutritional status predicts preterm death in older people: a prospective cohort study.*
4. *Poor nutritional status is associated with increased mortality in older adults regardless of the cause of death.*

Published articles

Söderstrom L, Thors Adolfsson E, Rosenblad A, Frid H, Saletti A, Bergkvist L. *Mealtime habits and meal provision are associated with malnutrition among elderly patients admitted to hospital.*
Clin Nutr 2013;**32**(2): 281-288. doi.org/10.1016/j.clnu.2012.07.013

Söderström L, Rosenblad A, Adolfsson ET, Saletti A, Bergkvist L
Nutritional status predicts preterm death in older people: a prospective cohort study.
Clinical Nutrition 2014;**33**(2): 354-359. doi.org/10.1016/j.clnu.2013.06.004

Söderström L, Rosenblad A, Adolfsson ET, Wolk A, Håkansson N, Bergkvist L. *A high energy intake from dietary fat among middle-aged and older adults is associated with increased risk of malnutrition 10 years later.*
British Journal of Nutrition 2015; **114** (6): 915–923. doi:10.1017/S0007114515002317

Other articles, according to the subprojects above.

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2011: 4 weeks	2011: 4 weeks	1 st of Apr 2012 –	2011: 75 000 SEK	2011: 55 000 SEK
2012: 6 weeks	2012: 6 weeks	31 st of Mar 2014	2013: 55 000 SEK	2014: 99 000 SEK
2013: 8 weeks	2013: 6 weeks	31 st of Mar 2014 –	2014: 34 000 SEK	
2015: 8 weeks		31 st of Mar 2016		

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	2011: Capios research fund: 44 000 SEK 2012: Capios research fund: 30 000 SEK

Taste disorders in middle ear disease and after middle ear surgery

D49

2015-10

PhD student **Katarina Berling, M.D.**
Department ENT department, Västmanland Hospital, Västerås
Supervisor Magnus von Unge, Professor, CCR-V
Assistant supervisors Johan Knutsson, PhD, CCR-V
Admitted 24th of May 2011
Half-time examination 23rd of October 2013
Doctoral dissertation Planned 2016
Institution Department of Surgical Sciences, Uppsala University/CCR-V
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **13 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor: **9 credits**
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. *Evaluation of the two methods for taste assessment used in the clinical study: electrogustometry and the filter paper disc method.*
2. *A clinical prospective trial where 100 patients undergoing primary middle ear surgery because of chronic otitis, cholesteatoma or otosclerosis are evaluated with EGM and FPD before and after surgery, on different occasions, up to a year after the operation.*
3. *A clinical prospective multicenter study in which 200 patients undergoing middle ear surgery due to otosclerosis will be evaluated. These patients answer a questionnaire concerning subjective taste disturbances and another questionnaire on quality of life.*
4. *A histological study with electron microscopy of CTN from healthy ears and from ears with chronic otitis or cholesteatoma.*

Published articles**Berling K**, Knutsson J, Rosenblad A, von Unge M*Evaluation of electrogustometry and the filter paper disc method for taste assessment.***Acta Otolaryngol 2011;131(5):488-493****Berling K**, Mannström P, Ulfendahl M, **von Unge M***The Chorda Tympani degenerates during chronic otitis media: an electron microscopy study.***Acta Otolaryngol. Acta Otolaryngol 2015;135(6):1-7.****Received funding during doctoral studies**

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2010: 4 weeks 2011: 6 weeks	2013: 8 weeks 2014: 6 weeks 2015: 8 weeks		2014: 42600 SEK 2015: 60000 SEK	

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants
	2014: Regional Research Fund, 300000 SEK

Anxiety disorders: clinical characteristics in a child and adolescent outpatient psychiatric population

D48

2015-11

PhD student **Susanne Olofsdotter**, Reg. Psychologist
Department Dept. of Child and Adolescent Psychiatry, Västerås/CCR-V
Supervisor Prof. Kent Nilsson, CCR-V
Assistant supervisors Prof. Tomas Furmark, Institution of Psychology, Uppsala University
Admitted 28th of April 2011
Licentiate 15th of January, 2016
Doctoral dissertation Planned 2017
Institution Dept. of Neuroscience, Uppsala University/CCR-V
Subject Medical Science
Research training Courses and theory modules: Licentiate degree 15 credits. Doctoral degree 30 credits.

Cumulative credits Required courses, documented in *Updok*: **16.5 credits**
 Common required (introduction to scientific research, etc. (8.5-11.5 credits)
 Courses specifically required for the doctoral studies subject (3.5-6.5 credits)

Cumulative credits Optional training modules, certified by supervisor: **15 credits**
 Literature studies Seminars Congresses
 Specific courses

Subprojects

1. *Assessing Adolescent Anxiety in General Psychiatric Care: Diagnostic Accuracy of the Swedish Self-Report and Parent Versions of the Spence Children's Anxiety Scale*
2. *Anxiety disorders among adolescents referred to general psychiatry for multiple causes: clinical presentation, prevalence, and comorbidity*
- 3 & 4. *Interaction between monoaminergic candidate genes and environmental factors in relation to levels of anxiety*

Published articles

Olofsdotter, S., Sonnby, K., Vadlin, S., Furmark, T., & Nilsson, K. W. (2015). *Assessing Adolescent Anxiety in General Psychiatric Care: Diagnostic Accuracy of the Swedish Self-Report and Parent Versions of the Spence Children's Anxiety Scale*. **Assessment**. doi: 10.1177/1073191115583858

Received funding during doctoral studies

<i>Västmanland County Council</i>				
Miscellaneous research grants	Doctoral research grants	Doctoral positions 50 %	Internal R&D (FoU) grant	County Council research fund
2011: 6 weeks	2012: 6 weeks	1st of Nov 2014-		
2012: 4 weeks	2013: 8 weeks	31st of Oct 2016		
2013: 8 weeks	2014: 8 weeks			
2014: 6 weeks				

<i>External research grants</i>	
Externally funded doctoral studentship/research time	Other external grants

Affiliated Projects

After consultation at the *Open House* as a first step, those colleagues who wish to pursue their research plans can apply for affiliation with the CCR-V in order to receive support with the realization of their project. For this purpose, a special application form including instructions on how to write a project plan is used.

Received applications and attachments are scrutinized by members of an examination committee in order to assess the project's quality and its requirements in terms of time and staff competence. The examination committee comprises a permanent core of a steering committee (including the Head and Assistant Head of the CCR-V and representatives of the Centre's various project groups) and biostatisticians, and is supplemented by affiliated individuals who are chosen for each specific occasion depending on the project's characteristics. The examination board meets twice per term, giving four possible application dates per year.

Projects that require resources extending beyond the Centre's possibilities must provide external funding, e.g. for the recruitment of additional secretaries or assistants. It may also be necessary to affiliate external supervisors to the CCR-V.

If the leader of the affiliated project is postdoctoral, a contact person from the CCR-V will be appointed. If the project leader has not yet completed a dissertation, a research-competent supervisor will be assigned. In addition, the project leader will be allotted a research assistant and a secretary, and be given a work station for data analysis. All documentation (application, project plan, application to the Ethics Committee etc.) is collected in a personal folder that is kept at the CCR-V. The folder will be continuously updated with records of meetings and other documentation regarding the project. Once a year all affiliated projects will be re-evaluated and the project leader may be called upon to report about the project's progress. Once the project is completed and a definitive research report is provided, the project will be removed from the project list and all data stored in the CCR-V's archives.

Those projects that are judged not to have sufficient potential or that show methodological weaknesses may be re-discussed at another *Open House*. The project leader will again meet a researcher/supervisor and a research assistant to discuss possible improvements necessary for affiliation.

The following projects were accepted for affiliation with the CCR-V in 2015:

- 318** *Tooth bud extraction in infants of East African origin as traditional medicine: a questionnaire study on knowledge, experience and perception among Swedish dental care professionals.*
Date of association: 05-03-2015 **Responsible for the project:** Jir Barzangi, district dentist, National dental service Västmanland AB
- 319** *Acceptance & Commitment Therapy for acute psychosis.*
Date of association: 29-04-2015 **Responsible for the project:** Mårten Tyrberg, psychologist, Department for Psychoses East, Västmanland Hospital Västerås
- 320** *Lymphovascular invasion as a prognostic marker for metastases and survival in colorectal cancer: a population-based national registry study.*
Date of association: 12-05-2015 **Responsible for the project:** Maziar Nikberg, PhD/M.D., Department of Surgery, Västmanland Hospital Västerås
- 321** *Swedish study of food allergies with delayed pronounced symptoms from the gastrointestinal tract in young children (food protein-induced enterocolitis syndrome, FPIES).*
Date of association: 12-05-2015 **Responsible for the project:** Josefin Ullberg, M.D., Department of Child and Adolescent Health, Västmanland Hospital Västerås
- 322** *Theoretical knowledge of healthcare personnel and their attitudes to cardiopulmonary resuscitation (CPR) in Västmanland and Dalarna*
Date of association: 23-09-2015 **Responsible for the project:** Marie-Louise Södersved Källestedt, PhD/RN, Centre for Clinical Research, Västmanland Hospital Västerås

323 *The effect of expectation, active drug and placebo on objective and self-rated performance at QbTest regarding ADHD core symptoms of hyperactivity, inattention and impulsivity in patients with untreated ADHD and substance syndrome.*

Date of association: 03-12-2015 **Responsible for the project:** Lennart Jansson, psychologist, Addictions Department Västmanland, Dept. of Psychiatry, Västmanland Hospital Västerås

324 *The effect of expectation, active drug and placebo on objective and self-rated performance at QbTest regarding ADHD core symptoms of hyperactivity, inattention and impulsivity in patients with untreated ADHD.*

Date of association: 03-12-2015 **Responsible for the project:** Lennart Jansson, psychologist, Addictions Department Västmanland, Dept. of Psychiatry, Västmanland Hospital Västerås

Completed Projects

- 1** *Smoke-free facilities provide support to stop smoking - Subproject*
Date of association: 01-01-1990 **Responsible for the project:** Hans Dahlman, Community Medical Director, Competence Centre for Health, Västerås Central Hospital
End date: 17-12-2015
- 262** *Postoperative pain relief with wound infiltration and Baxter Infusor after open inguinal hernia surgery according to Lichtenstein with placement of mesh.*
Date of association: 22-04-2008 **Responsible for the project:** Carl Henric Bolldén, Medical Specialist, Dept of Surgery, Västerås Central Hospital
End date: 17-12-2015
- 277** *Ultrasound diagnosis of the intestine in gastrointestinal disorders and chronic inflammatory bowel disease in children and adolescents. (Study I of the project)*
Date of association: 16-03-2010 **Responsible for the project:** Karin Strömstedt, Senior Consultant, Department of Radiology, Västmanland Hospital Västerås
End date: 29-12-2015
- 287** *Brachytherapy for cancer at the base of the tongue – The results for patients treated at the Karolinska Hospital in Stockholm 2002-2010*
Date of association: 01-03-2011 **Responsible for the project:** David Stenholtz, M.D., Department of Oncology, Västerås Central Hospital
End date: 17-12-2015
- 288** *Pregnancy, lifestyle and reproductive health in multicultural Sweden – a prospective study of women of Swedish and foreign origin.*
Date of association: 11-11-2011 **Responsible for the project:** Anna Berglund, PhD/M.D., Department of Obstetrics and Gynecology, Västmanland Hospital Västerås
End date: 17-12-2015
- 290** *Risk of cervical neoplasia among HIV-1 positive women in Sweden.*
Date of association: 07-02-2012 **Responsible for the project:** Christina Carlander, medical specialist, Dept. of Infectious Diseases, Västmanland Hospital Västerås
End date: 17-12-2015
- 297** *The significance of clinical and bacterial factors for the development of complications in meningitis caused by pneumococci.*
Date of association: 07-02-2013 **Responsible for the project:** Nils Block, medical specialist, Department of Infectious Diseases, Västmanland Hospital Västerås
End date: 17-12-2015

- 301** *Mapping of the diabetes care organisation in the primary health care, and its importance for enabling patients with diabetes to achieve national treatment goals.*
Date of association: 10-01-2014 **Responsible for the project:** Eva Thors Adolfsson, PhD and development strategist, Department of Primary Health Care, Västmanland Hospital Västerås
End date: 17-12-2015
- 303** *HPV prevalence in primary vaginal cancer and its relation to clinicopathological variables.*
Date of association: 20-05-2014 **Responsible for the project:** Cecilia Ranhem, medical specialist, Department of Obstetrics and Gynecology, Västmanland Hospital Västerås
End date: 17-12-2015
- 305** *Evaluation of the health-related quality of life form CP CHILD regarding children with cerebral palsy aged 4-18 years in Västmanland and Sörmland.*
Date of association: 04-06-2014 **Responsible for the project:** Katina Pettersson, physiotherapist, Community Health Care, Centre for Habilitation, Västmanland Hospital Västerås
End date: 17-12-2015
- 306** *Avoiding atelectasis during anaesthesia by ventilating a short period with air and high fresh gas flow for preoxygenation elimination – a randomized controlled trial*
Date of association: 23-06-2014 **Responsible for the project:** Erland Östberg, M.D., Department of Surgery, Västmanland Hospital Västerås
End date: 17-12-2015
- 315** *Oxygenation test under general anaesthesia.*
Date of association: 19-09-2014 **Responsible for the project:** Lennart Edmark, M.D./PhD, Department of Surgery, Västmanland Hospital Västerås
End date: 12-17-12-2015
- 319** *Acceptance & Commitment Therapy for acute psychosis.*
Date of association: 29-04-2015 **Responsible for the project:** Mårten Tyrberg, psychologist, Department for Psychoses East, Västmanland Hospital Västerås
End date: 17-12-2015

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