

ANNUAL REPORT 2021

HCA RESEARCH

Hans Christian Andersen Children's Hospital

Odense University Hospital Denmark



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WELCOME

This annual report for HCA Research at the Hans Christian Andersen Children's Hospital provides a brief snapshot of our activities and contributions to pediatric research in 2021. The report presents projects, results, teaching, grants and collaboration.

Obviously, the global COVID-19 crisis has affected us all, personally and scientifically. Congress participation and social interactions have been limited to a minimum. Virtual meetings have increased sharply out of necessity.

HCA Research strives to be a unit where researchers contribute with commitment and willingness to collaborate in finding the best solutions for the individual project. We have started new projects and a number of projects including PhD projects have been finalized successfully.

I would like to thank researchers, employees and close collaborators for their engagement and efforts in improving and supporting HCA Research during 2021.



Steffen Husby
Professor & Head of Research



HCA RESEARCH

Allergology Pulmonology

Prof. Susanne Halken

Participatory Design

Prof. Jane Clemensen
Adj. Prof. Anthony Smith

Endocrinology

Prof. Henrik Christesen

Gastroenterology

Prof. Steffen Husby
Adj. Prof. Joseph A. Murray
Adj. Prof. Christian Mølgaard

Neonatology

Prof. Gitte Zachariassen
Prof. Per Sangild

Childhood and youth health

Prof. Niels Wedderkopp

HCA Research is both a part of Hans Christian Andersen Children's Hospital, Odense University Hospital (OUH), and a part of the Department of Clinical Research, Faculty of Health Sciences at the University of Southern Denmark (SDU). HCA Research features medical doctors, professors, consultants, associate professors, ph.d. students, medical students, technicians, nurses and secretary assistants collaborating to perform research to the benefit of the patients. We are engaged in research in order to find the best way to diagnose and treat various diseases.

Our vision is to create research results that can help improve children's health and development, family well-being, and improve prevention and treatment of children's diseases. The key value of our research is to put the child and the family at the center. This takes place in a collaborative and mutually supportive research community across professional groups, departments, external health organizations and international borders. Research in children's development and health requires a basic understanding of children in a number of aspects, including physiological, psychological, ethical and social conditions. Research in children's diseases is a prerequisite for

COLLABORATION

HCA Research prioritizes local, regional, national and international collaboration in research. In 2021 we have strengthened existing relations and expanded new promising collaborations.

Our organizational position as a part of both the University of Southern Denmark and Odense University Hospital provides us many opportunities to interdisciplinary collaboration with other departments and institutes.

HCA Research contributes to the synergy between OUH and SDU by entering PhD co-supervision projects and research projects in collaboration with other departments at OUH and institutes at SDU. Moreover, we take part in several national research projects in which collaboration with departments at other hospitals is essential.

We strengthen our international collaboration through affiliation of adjunct professors and by involvement with international partners in Europe, USA and Australia. This will open up possibilities for international research visits, and attract international researchers and PhD students to our unit.

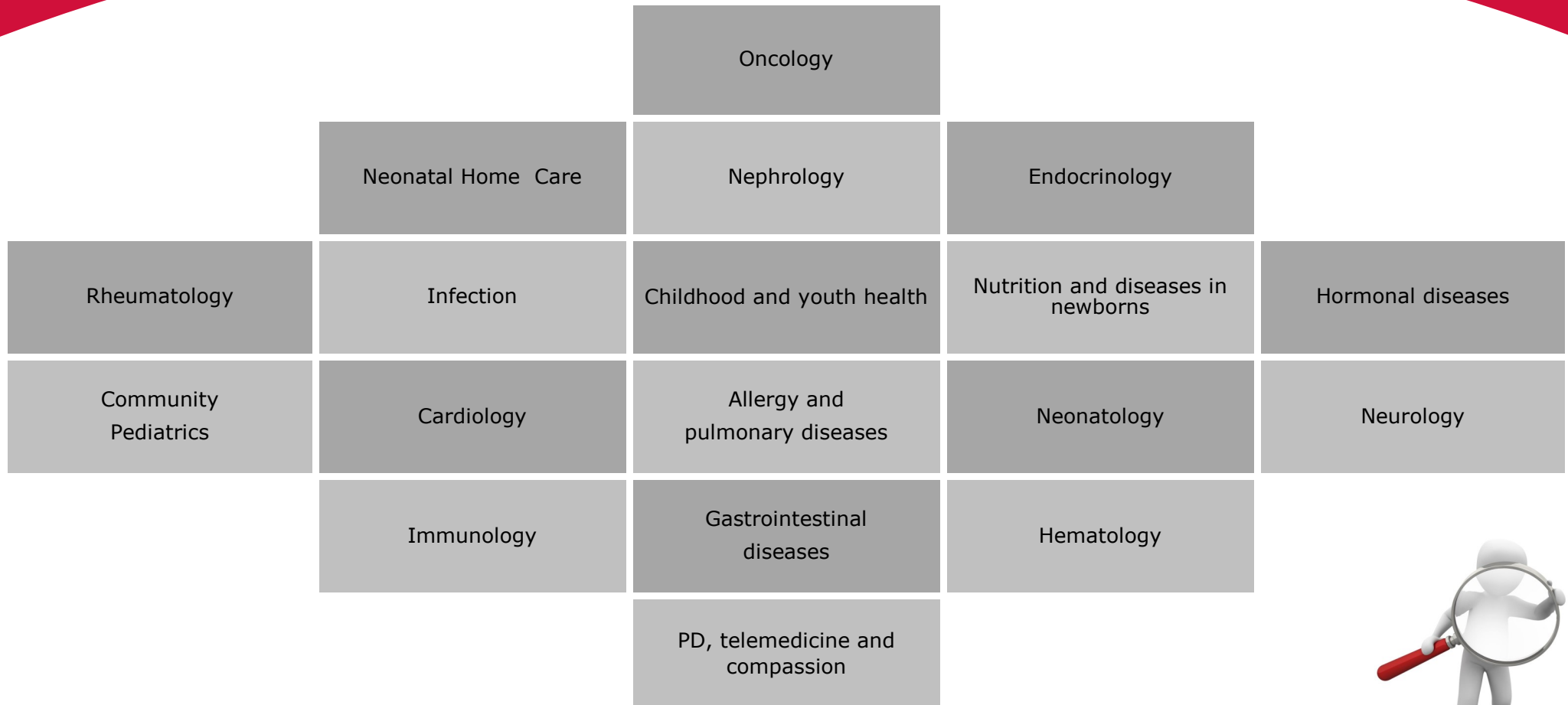


← SKOLEN
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← SVANEN



RESEARCH FOCUS

HCA Research supports research in all pediatric fields. The focus areas work together and many projects often involve more disciplines, so that the resources of the unit are optimized. Our target is to achieve interdisciplinary research to the benefit of the patients.



PH.D. PROJECTS

Predicting the natural course of paediatric asthma – a longitudinal study investigating the significance of novel prognostic markers
Benjamin Hoffmann-Petersen, M.D. (2021)

Filaggrin expression and immune-pathomechanisms in eczema and asthma
Millie Basu, M.D. (2021)

Gluten sensitivity and the gut microbiome, in a population perspective
Cæcilie Crawley Larsen, M.D. (2021)

Accuracy of PET/MRI in Diagnosis and Treatment Evaluation of Children and Adolescents with Inflammatory Bowel Disease
Sina Dalby, M.D.

Congenital adrenal hyperplasia in Denmark: A nation-wide study on neonatal screening, clinical presentation and general morbidity
Marie Lind-Holst, M.D.

Get the children you want while you can - Women's Age-Related Fertility Challenges and reflections regarding timing of Motherhood
Camilla Gry Temmesen, midwife

Functional Genetic Investigations in Unexplained Hypoglycemia in Children
Annette Rønholt Larsen, cand.scient.

The Transition of adolescents and young adults with epilepsy from pediatric health-care services to adult health-care services, empowerment and patient involvement, supported by a telehealth solution
Ole Abildgaard Hansen, Cand.cur/MSc in Nursing Science

Genetic alterations in insulinomas with and without multiple endocrine neoplasia type 1; Understanding tumourigenesis in beta-cells
Kirstine Øster Andersen, cand.scient.

Mother's own milk and fortification for very preterm born infants
Marie Bendix Simonsen, M.D.

Improving patient pathways in paediatric oncology: a participatory design study
Camilla Littau Nielsen, cand.scient.san.

Parents' assessment of disability in their children
Niels Illum, M.D.





ASSOCIATED PH.D. PROJECTS

Mortality and morbidity of infants with symptomatic Congenital Diaphragmatic Hernia treated at Odense University Hospital between 1998 and 2015
Ulla Lei Larsen, Dep. Of Anaesthesiology V, University of Southern Denmark

Congenital hyperinsulinism and early onset diabetes: Hunting genes in genetic disorders influencing insulin secretion and glucose levels using tissue expression microarrays and exome sequencing
Yazeid alHaidan, Dept. of Clinical Genetics and Hans Christian Andersen Children's Hospital, OUH

Early detection and prevention of fractures
Pernille Ravn Jakobsen, University of Southern Denmark

Treatment, care, and rehabilitation of patients with an osteoporotic hip fracture
Charlotte Myhre Jensen, Dep. O, OUH, University of Southern Denmark

Kidney transplants, patient involvement, and Health
Charlotte Nielsen, Dep. Y, OUH, University of Southern Denmark

Long-term Lifestyle Change Intervention and E-health Applications - A qualitative interview study
Carl Brandt, SDU Medication of children at hospital

An adverse event study
Rikke Rishøj, Dept. of Pharmacology, OUH, University of Southern Denmark (2018)

Early life exposure to low vitamin D and risk of congenital heart disease
Karen Christina Walker, Copenhagen University

Colostrum and the first feeding for preterm neonates
Agnethe Ahnfeldt, Copenhagen University

Respiratory morbidity, lung function and Nitric Oxide in a longitudinal cohort of former premature and mature born children
Fanny Goth, Copenhagen University

The impact of ingredients for infant formula on intestinal microbial communities derived from healthy and food allergic infants
Katrine Graversen, Danmarks Tekniske Universitet, Fødevareinstituttet

Adherence to adrenalin autoinjector prescriptions and immunotherapy in anaphylaxis patients with special focus on venom allergy (A3PIA)
Louise Parke, Department of Dermatology and Allergy Centre, Odense Research Centre for Anaphylaxis (ORCA), OUH

Insulin-like Growth Factor effects in prematurity
Martin Rasmussen, Copenhagen University

STUDENT PROJECTS

The effect of cumulated, long-term use of ICS on Height in Danish Adolescents and Young Adults Diagnosed with Asthma during Childhood
Nanna Eriksen Spence

A cohort study investigating the association between blood urea nitrogen levels and clinical parameters in very preterm infants.
Kathrine Therkildsen, Sara Bonde Christensen

Feeding practice, nutrition, and growth in infants with abdominal wall defects and oesophageal atresia - a prospective case-control study
Signe Sparre

Vitamin D status and tooth enamel hypomineralization: No associations in a cohort of 4- year-old children
Nikoline Bebe

Vitamin D and blood pressure: An Odense Child Cohort Study
Josefine Nadia Pedersen

Vitamin D Status in Pregnancy and Childhood Associates with Intelligence Quotient at Age Seven years: An Odense Child Cohort Study
Emily Cantio

Lean Body Mass Index of 7-year-old Children is Associated with Cord and Pregnancy Serum 25-hydroxyvitamin D: An Odense Child Cohort study
Asta Rasmussen

Congenital Combined Pituitary Hormone Deficiency in Denmark
Louise Kjersgaard Jakobsen



TEACHING

HCA Research is responsible for teaching students in paediatrics and related subjects in different educations; Medicine, Nurse, Pharmacy. The teachers are ph.d. students, post.docs, doctors, associate professors and professors. The main course on paediatrics is K8 at the medicine candidate level. The aim is to provide the student with knowledge, skills and competences in diseases in children, pertaining to birth and in women that are necessary to successfully manage subordinate medical positions in these areas after completing the their degree. The final exam of the course is a big OSCE assignment. 120-180 students attend. The OSCE assignment consists of history taking, communication, assessment of examination results, focused objective examination as well as compilation of acquired data for diagnosis and subsequent communication of diagnosis and action plan to the patient. All clinical areas are tested and basic knowledge is included. Internal censorship is used.



GRANT

FUND	GRANT
OUH og RH pulje	728.000
OUH Forskningspulje	3.069.000
Region Syddanmark	800.000
Biofiber-Damino A/S	500.000
Dagmar Marshall Fonden	100.000
Helsefonden	400.000
Aase og Ejnar Danielsens Fond	80.000
TAKEDA	200.000
ARLA	160.000
Lizzi og Mogens Staal Fonden	15.000
Børnecancerfonden	157.500
TOTAL	6.209.500 DKK



In 2021 HCA Research received around 6,2 million DKK in contract and grant awards from private and public foundations.

Each PhD student must aim to receive at least 2 grants from external funds each year.

RESEARCH SEMINAR

Each year HCA Research invites employees at the children's hospital and collaborators to a research seminar. Junior and senior researchers present new projects and results. In 2021 the theme was allergy and the seminar was a celebration of the career of Arne Høst, who retired in 2021. Around 75 people attended the seminar in november.



ODENSE CHILD COHORT

STATUS 2021

2524 Children

2476 Families

9-years examination
started in August 2019
(1178 children have participated until 31.12.21)

7-years examination
(1711 children have participated until 31.12.21)

272.000 samples of biological material
(incl. various types, among others stool samples, hair samples, urine and milk teeth)

14 research projects

15 publications

3.050.000 DKK grant



The Odense Child Cohort is a prospective observational birth cohort with children born in the Municipality of Odense in 2010 - 2013. Of the eligible population of 6.707 pregnant women, 4.017 declined to participate, while 2.874 (43%) enrolled in the cohort. The children are examined at the age of 3 and 18 months, 3, 5, 7, 9, 12, 15 and 18 years.

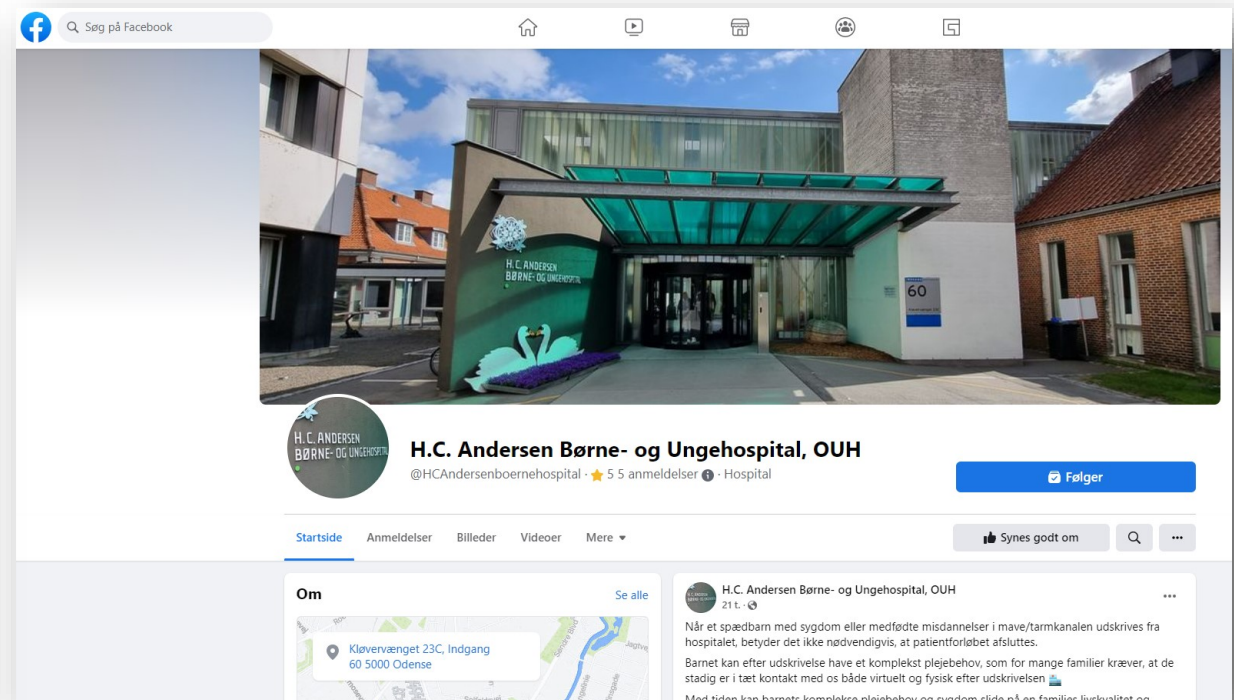
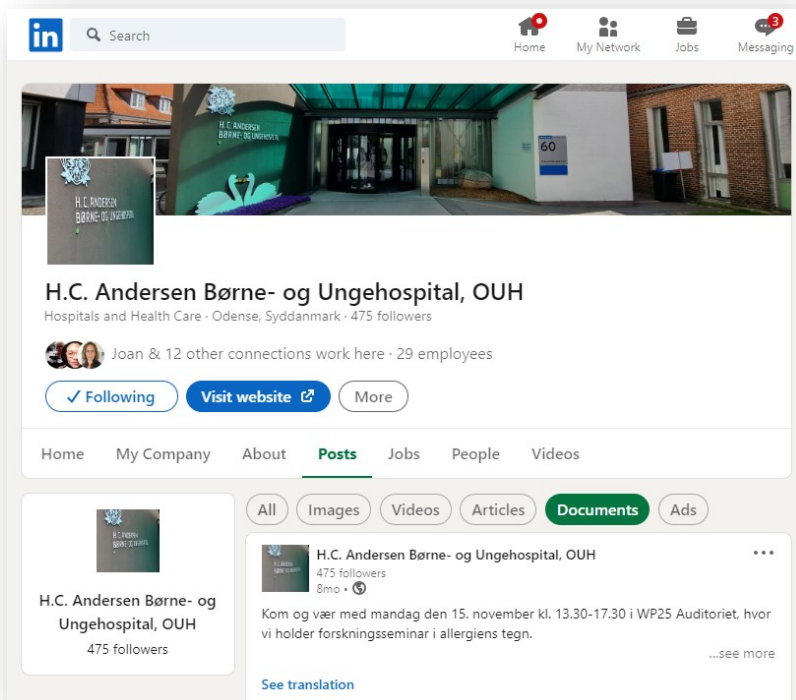
The purpose of the project is to provide in-depth information about the interaction between maternal and child health and the impact of social and environmental factors in order to improve child health and wellbeing. The information is collected from questionnaires, clinical examinations and biological material from parents and children. In addition, information is collected from home health care visits, nurseries and school records.

Of the 9-year old children, 1178 have so far participated in the examination. The examination is a collaboration with the Department of Sports Science and Clinical Biomechanics at the University of Southern Denmark. It contains motor tests, strength and fitness measured by a bicycle test.

Odense Child Cohort is a strong collaboration between the Municipality of Odense, the University of Southern Denmark, Odense University Hospital and the Mental Health Services in the Region of Southern Denmark. The main project is financially supported by the Municipality of Odense, Odense University Hospital, Region of Southern Denmark, OPEN (Odense Patient Data Exploratory Network), Mental Health Services in the Region of Southern Denmark. The 14 research projects are supported by many different grants.

SoMe

In 2021 Hans Christian Andersen Children's Hospital introduced two new social media profiles. At Facebook we share stories about activities in the clinic and relevant research for the patients and families. At LinkedIn we communicate relevant news about research and professional activities for collaborators and other, who are interested in the pediatric field.



95 P U B L I C A T I O N S

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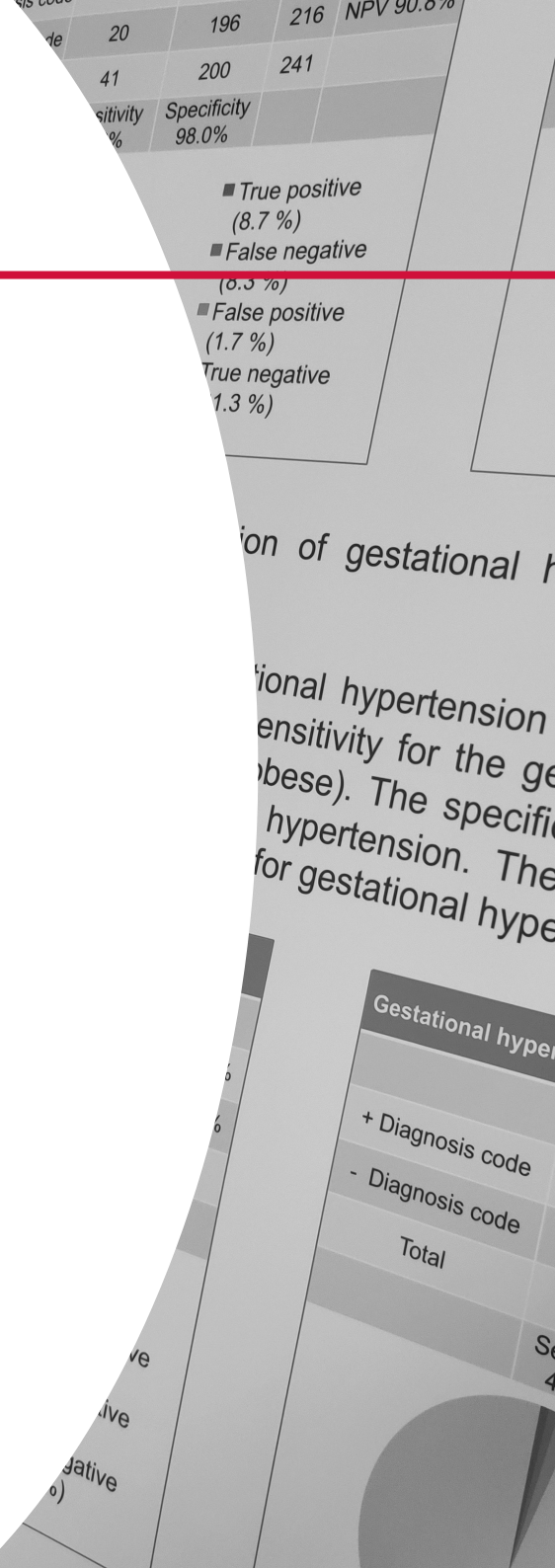
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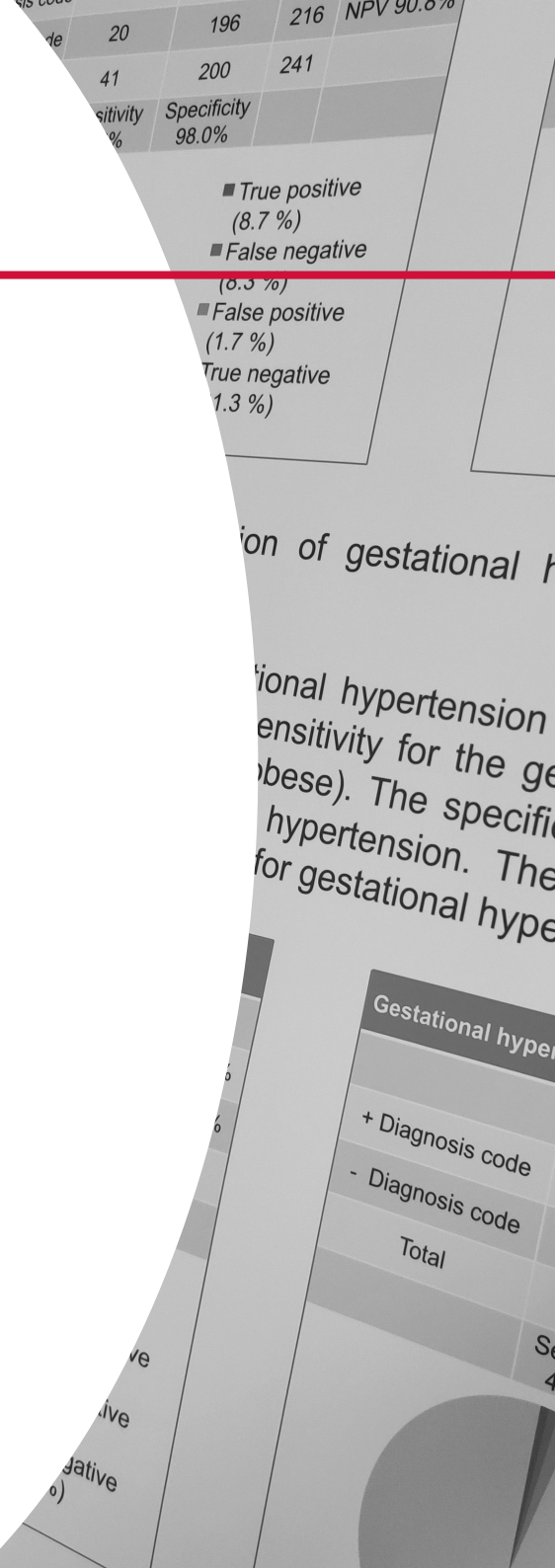
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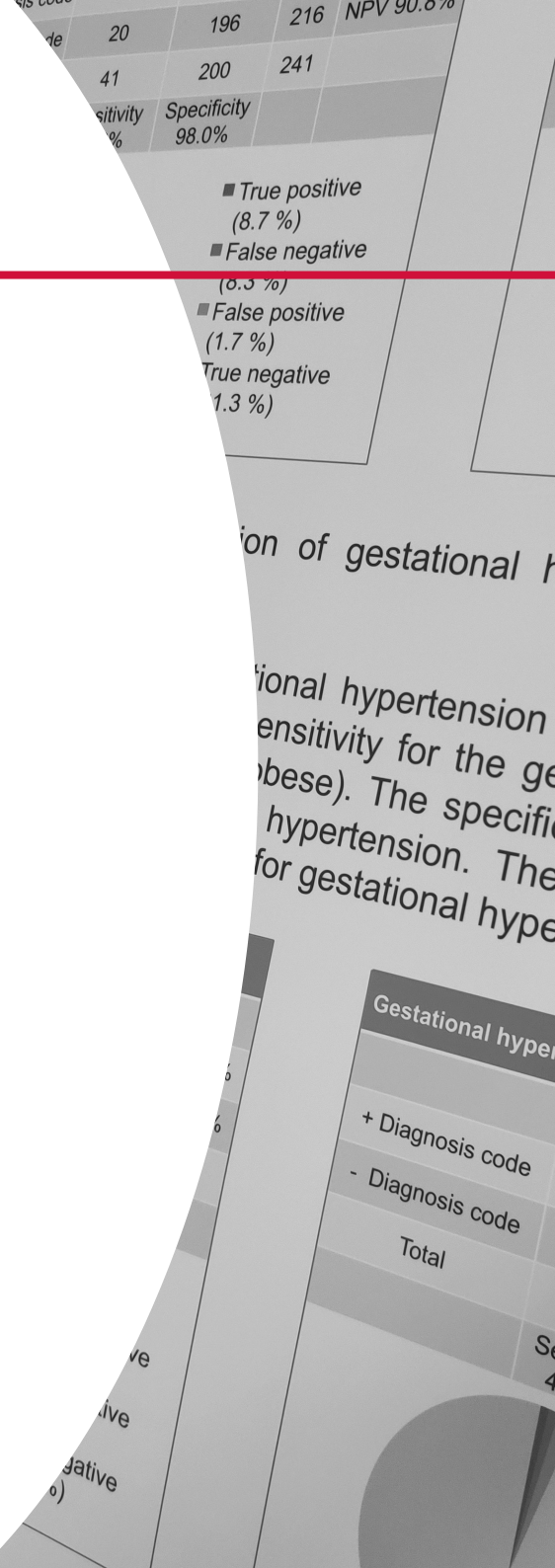
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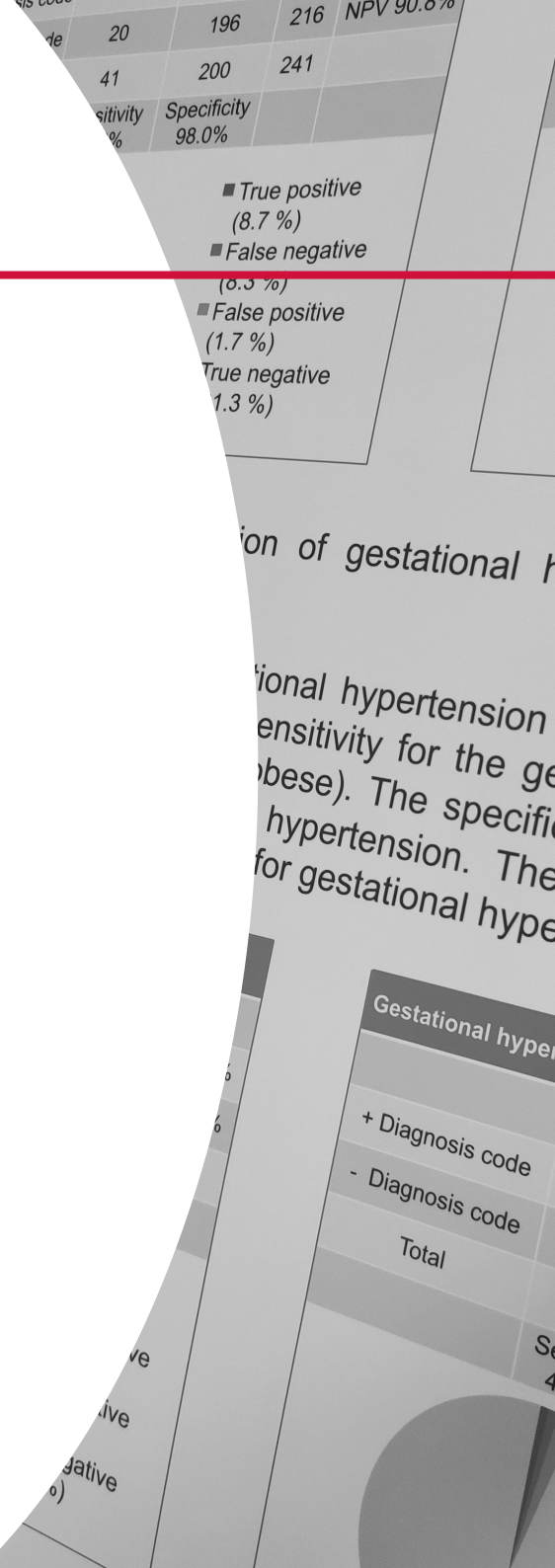
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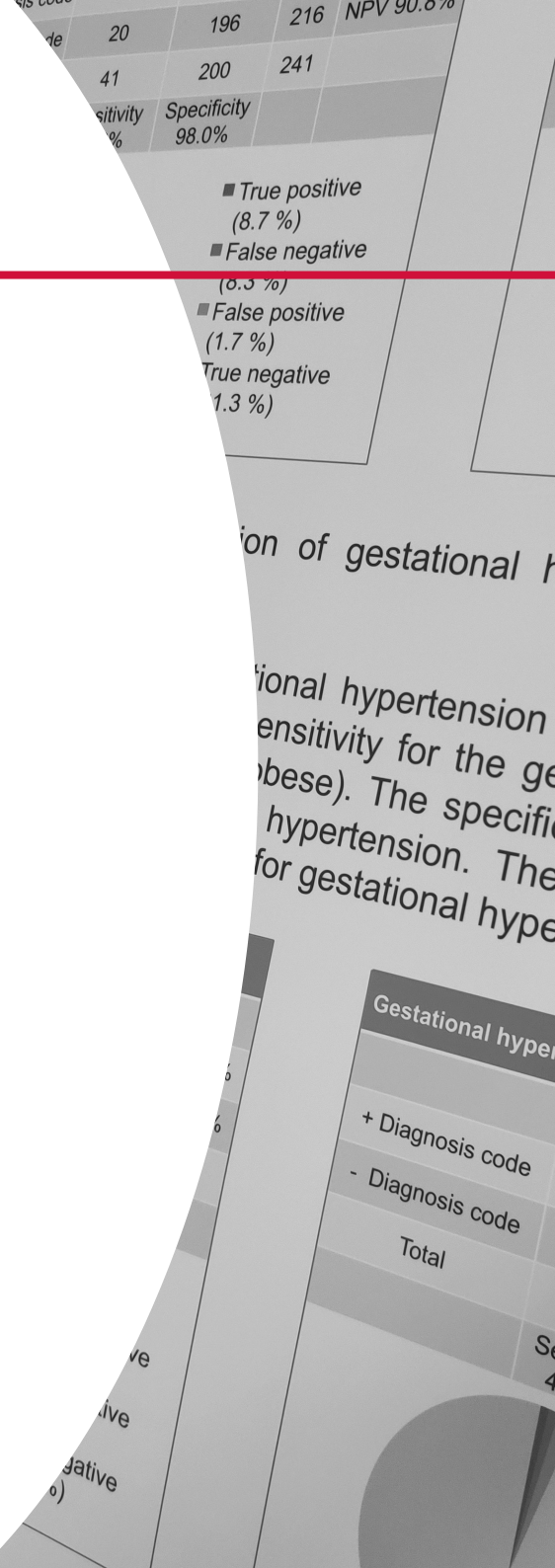
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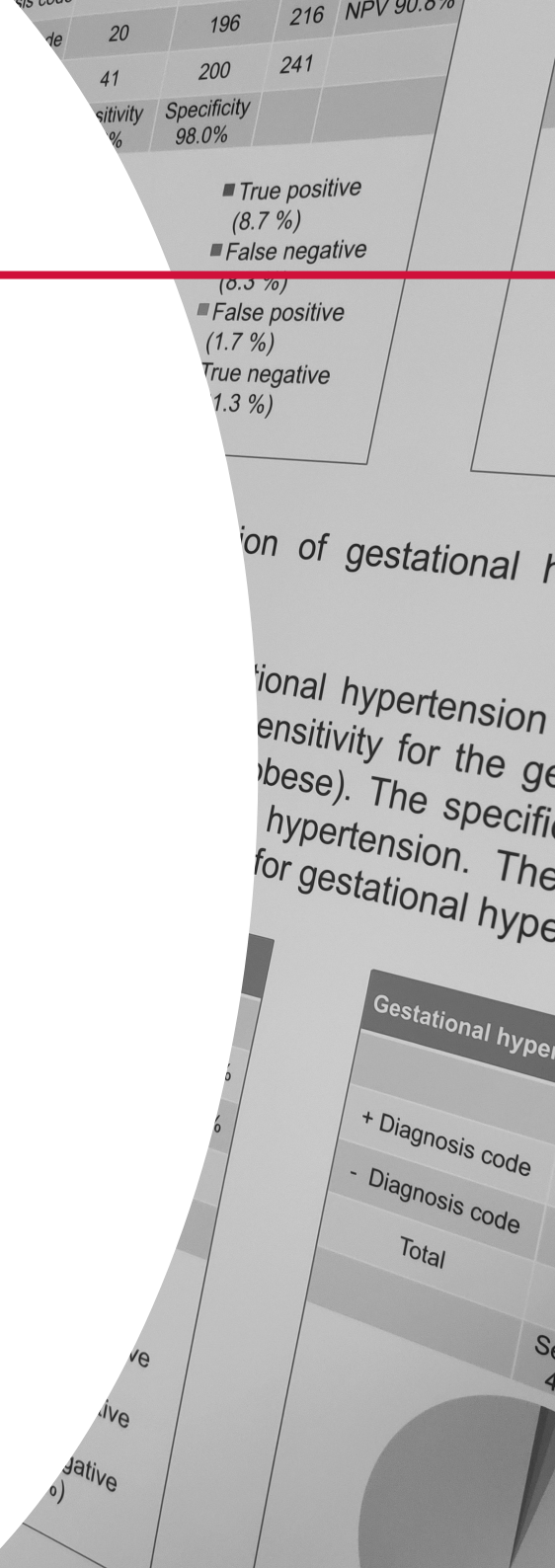
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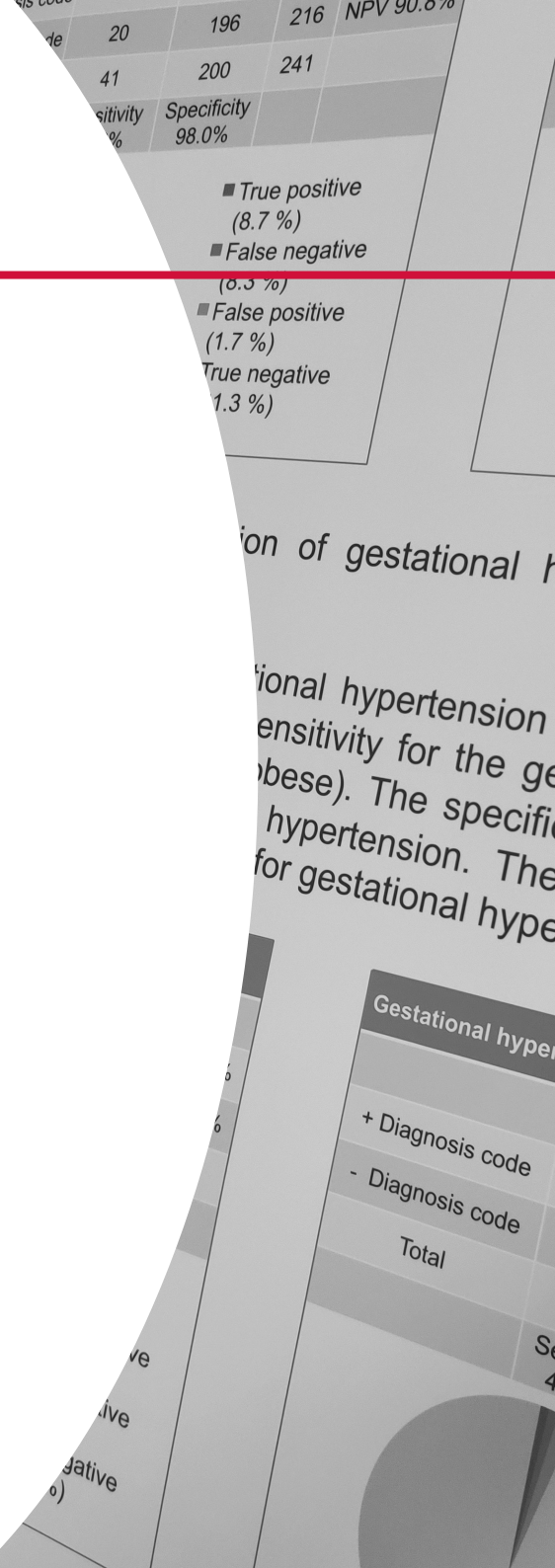
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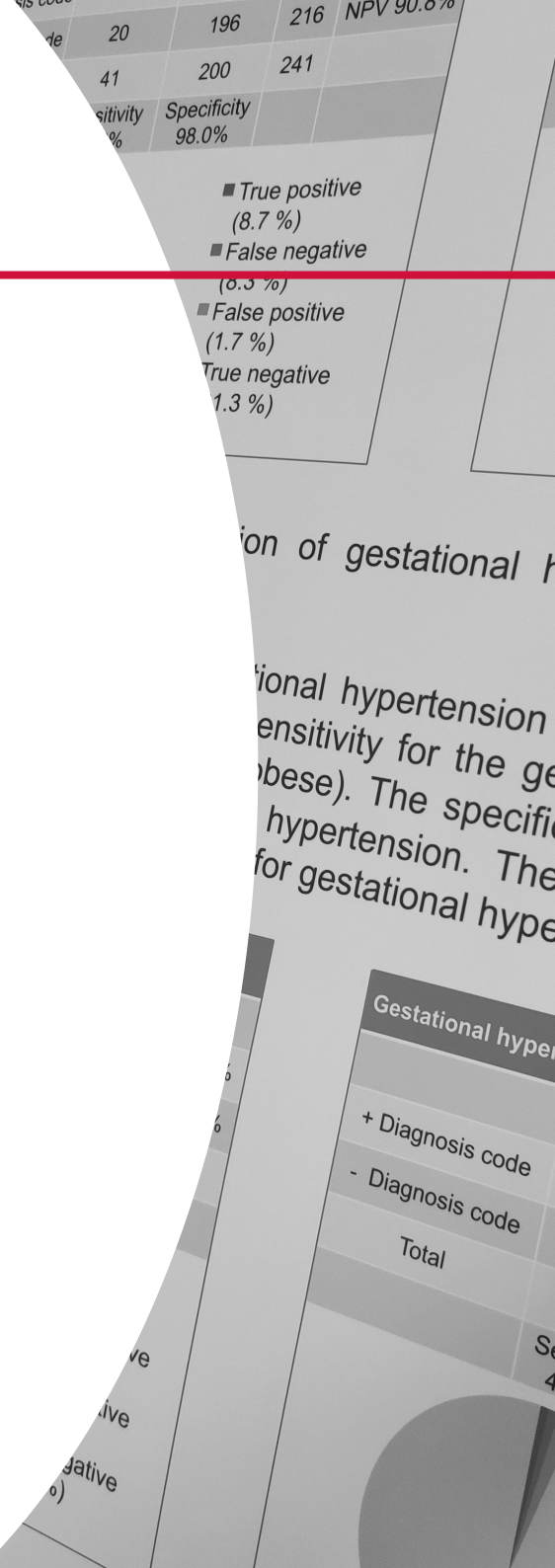
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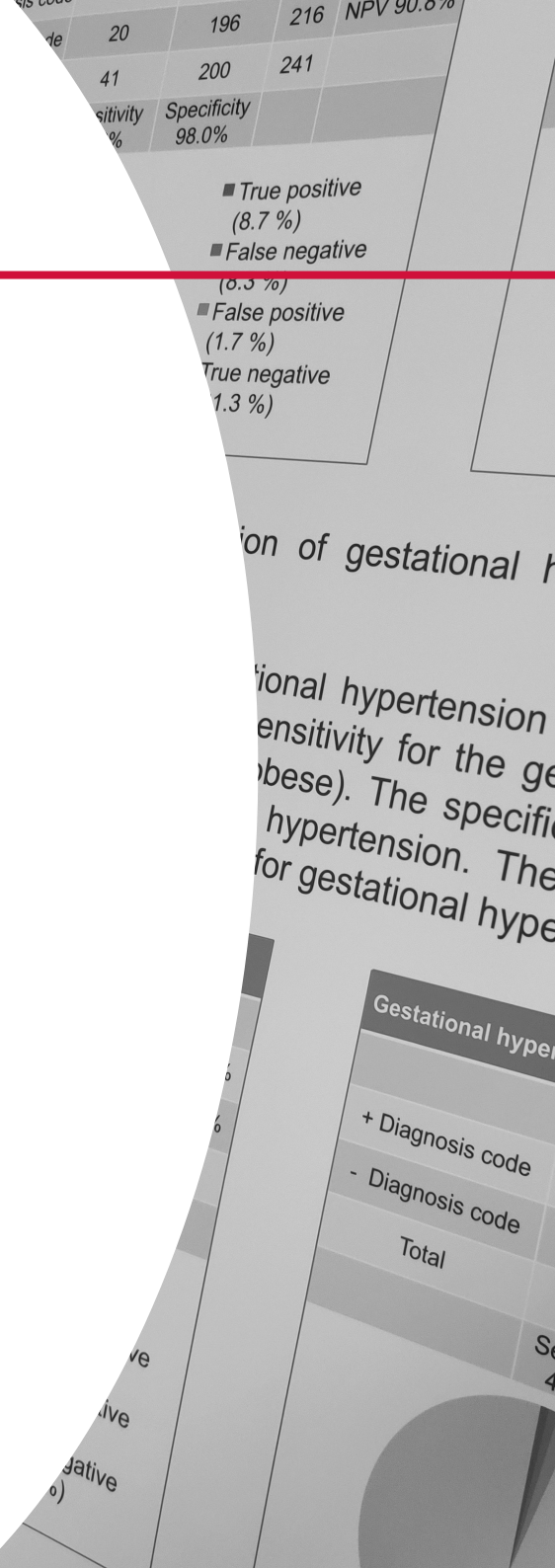
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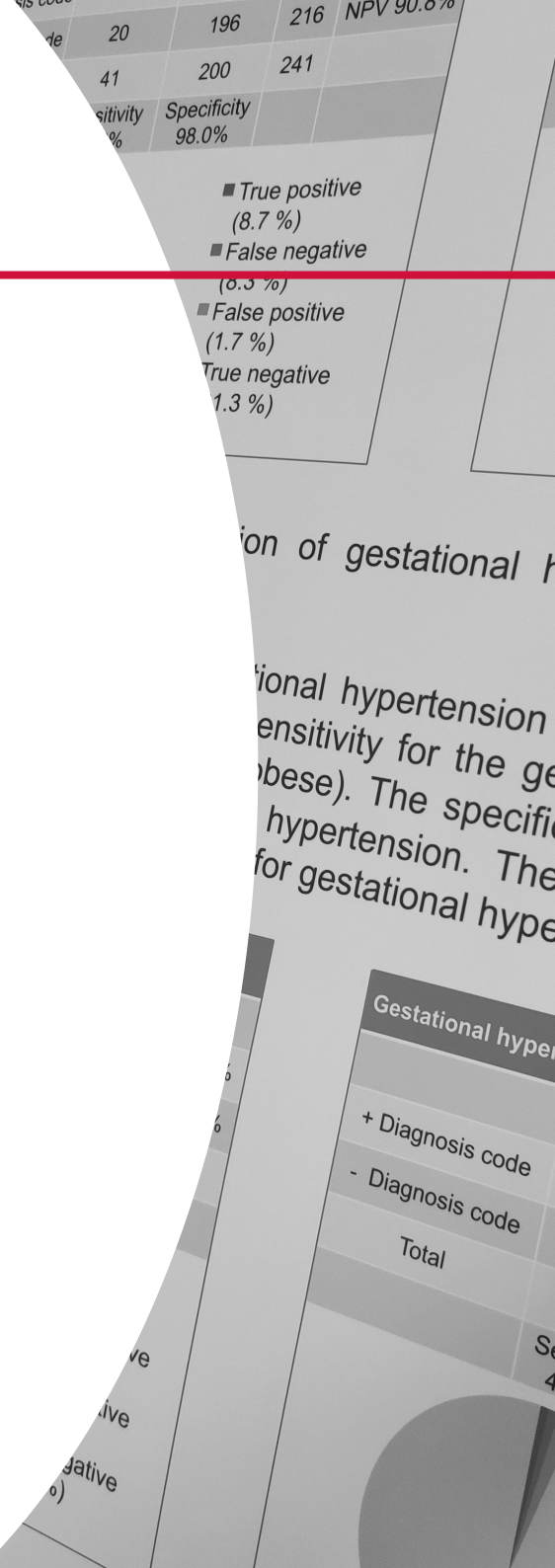
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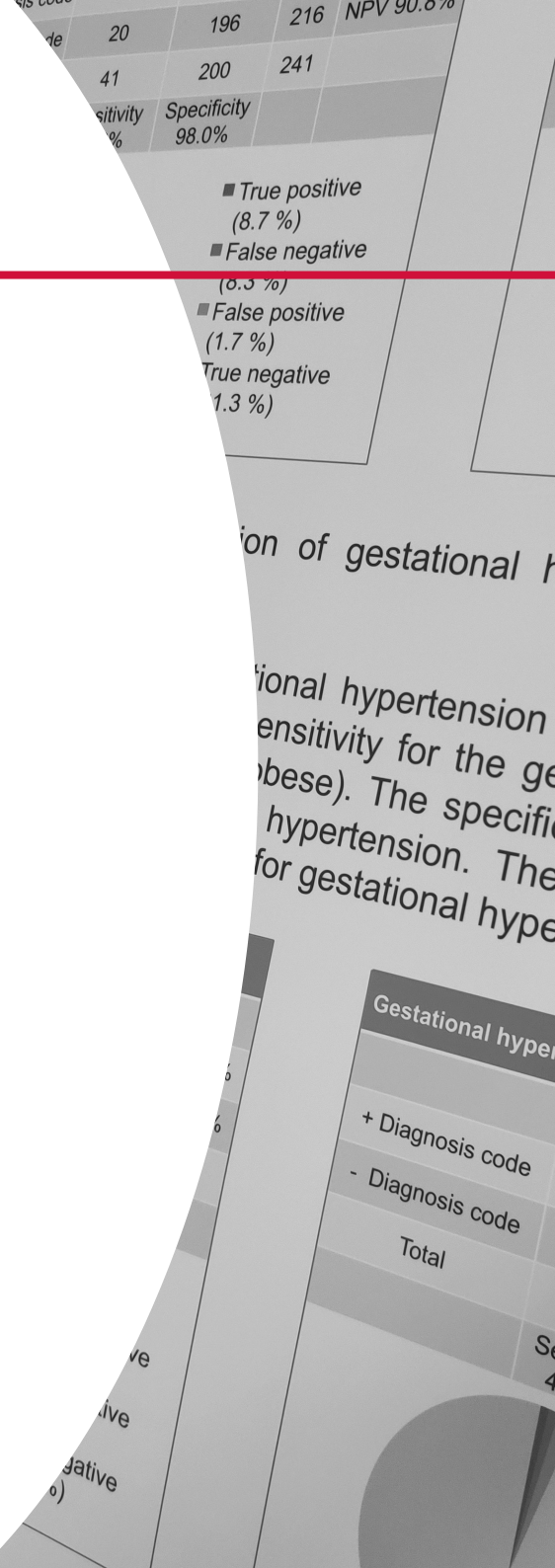
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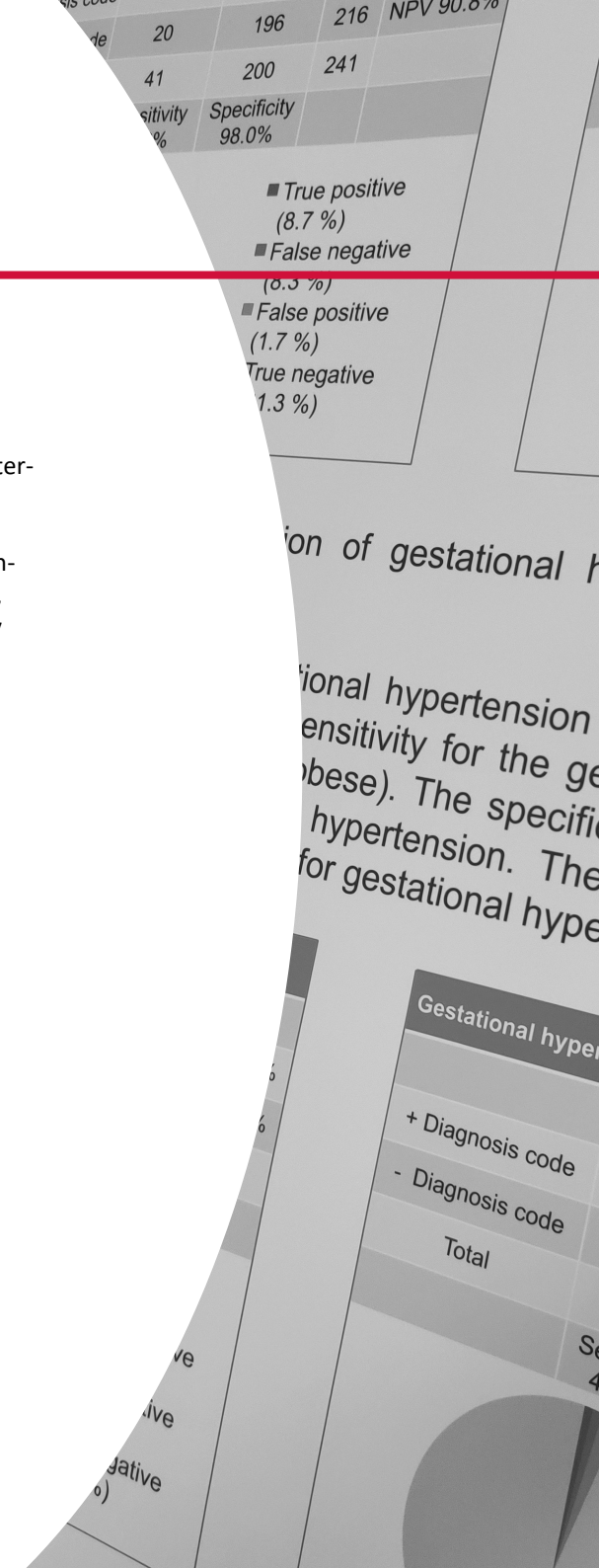


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