



Dansk Nyremedicinsk Forskning

Analyse baseret på videnskabelige publikationer i perioden 2001-2010



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Analyse baseret på videnskabelige publikationer i perioden 2001-2010.

Rapporten er udarbejdet i samarbejde mellem Dansk Nefrologisk Selskab og Medicinsk Bibliotek, Aalborg Sygehus, på vegne af Dansk Nefrologisk Selskab.

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Forord

Denne rapport beskriver forskningsaktiviteten i Danmark indenfor det nyremedicinske område i en 10-årig periode fra 2001 til 2010. Formålet har været bredt at præsentere omfanget og udviklingen af forskning i nyrenes struktur, funktion og sygdomme.

Baggrunden for rapporten er, at Dansk Nefrologisk Selskab ønsker at medvirke til en vedvarende forbedring i forebyggelsen og behandlingen af patienter med sygdomme, der varetages af det nefrologiske speciale. Såvel grundforskning som klinisk forskning er en væsentlig forudsætning for behandlingsmæssige fremskridt og rapporten dokumenterer bredden i dansk nefrologisk forskning.

Forskningsaktiviteten på de nefrologiske afdelinger i form af videnskabelige publikationer er fordoblet i perioden fra omkring 30 til 60 årligt. Denne stigning har fundet sted på både regionale nefrologiske afdelinger og på universitetsafdelinger.

Den nyre-relaterede forskning på endokrinologiske afdelinger og universitetsinstitutter har i hele perioden været omfattende.

I hele landet ses et bredt samarbejde mellem kliniske afdelinger og universitetsinstitutter.

Der er således en stor og stigende forskningsindsats indenfor det nyremedicinske område. Det er et håb, at herværende rapport kan medvirke til både en fortsat styrkelse af den nefrologiske forskning i Danmark samt fortsat tildeling af forskningsmidler, så den positive udvikling kan fastholdes.

Rapporten er udarbejdet i samarbejde med Medicinsk Bibliotek på Aalborg Sygehus og udgives af Dansk Nefrologisk Selskab

November 2012

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Publikationsaktivitet

På de følgende sider illustreres publikationsaktiviteten på de danske sygehuse, indenfor det nyremedicinske område. Opgørelsen indledes med en grafisk præsentation af publikationsaktiviteten og efterfølges af en redegørelse for anskaffelse af data, begrænsninger m.m. Publikationsaktiviteten betegner her den mængde forskningsartikler en given enhed har publiceret i en given periode. En nærmere afgrænsning af dette findes i det efterfølgende.

For enhver enhed eller afdeling er kun opgjort de publikationer, der omhandler nyremedicinsk forskning. Opgørelsen afspejler dermed ikke den totale produktion af videnskabelige artikler m.m. på en given afdeling, da artikler omhandlende andre emner og forskningsområder ikke er medtaget.

Opgørelsen er inddelt i fem hovedpunkter:

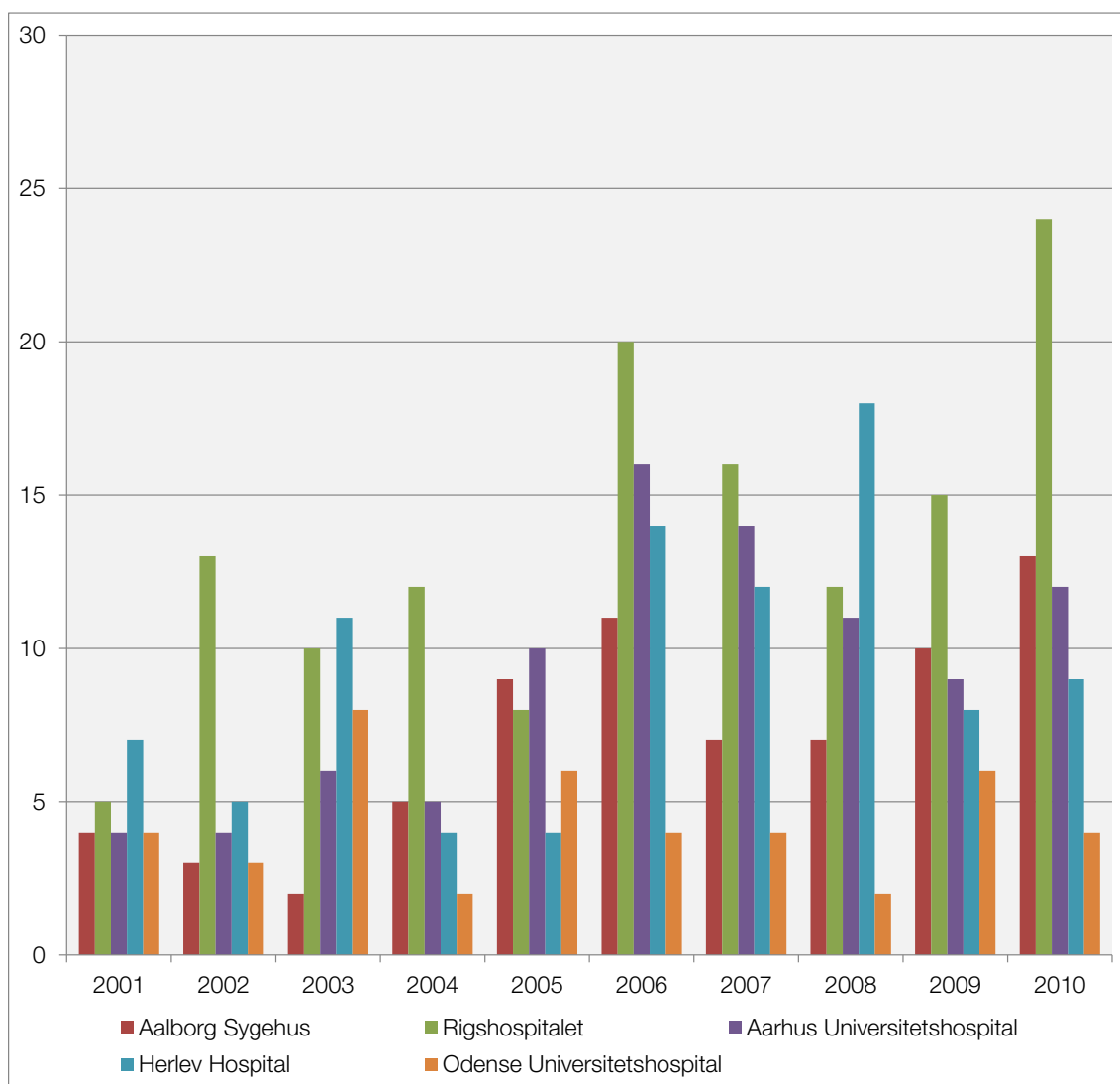
- 1) Nefrologiske afdelinger på universitetshospitalerne
- 2) Nefrologiske afdelinger på regionshospitalerne
- 3) Endokrinologiske afdelinger på universitetshospitalerne
- 4) Universitetsinstitutter
- 5) Kumuleret opgørelse over ovenstående

Hospitalsafdelinger med andre specialer (f.eks. urologi) er ikke medtaget i denne opgørelse, men deres produktion er anført i de samlede litteraturlister bagerst i denne rapport. Kumuleringen i den femte opgørelse, samt i datatabellerne i de øvrige opgørelser, er ikke blot en sum af afdelingernes produktion. Kumuleringen er den totale produktion for de angivne afdelinger, og kan afvige fra summen, hvis to eller flere afdelinger har publiceret artikler i samarbejde. Sådanne artikler er anført ved hver enkel afdeling, men i kumuleringen blot talt én gang.

Nefrologiske afdelinger, Universitetshospitaler

Antal publikationer

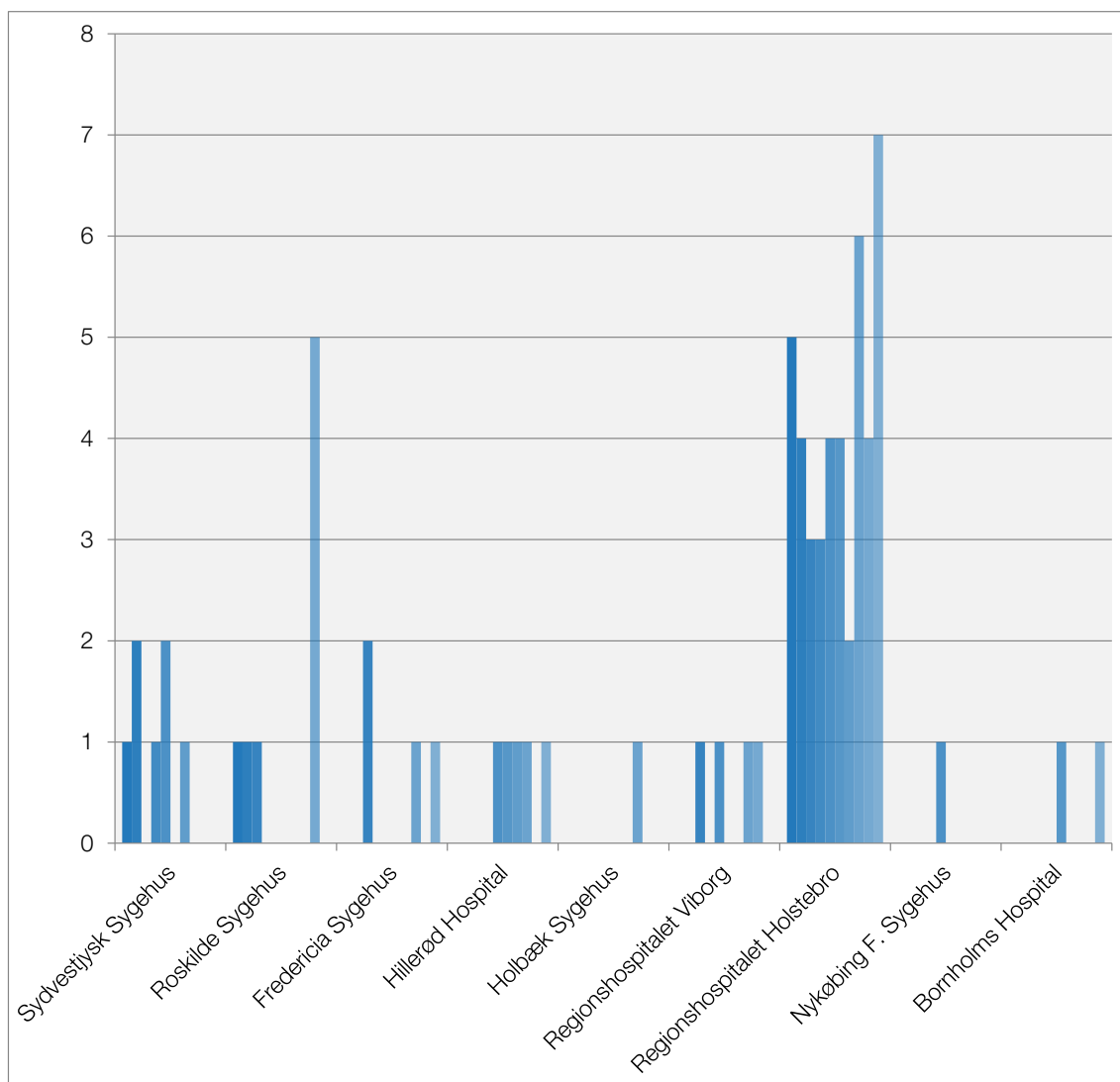
Afdeling	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Aalborg Sygehus	4	3	2	5	9	11	7	7	10	13
Rigshospitalet	5	13	10	12	8	20	16	12	15	24
Aarhus Universitetshospital	4	4	6	5	10	16	14	11	9	12
Herlev Hospital	7	5	11	4	4	14	12	18	8	9
Odense Universitetshospital	4	3	8	2	6	4	4	2	6	4
Kumuleret	24	25	30	26	37	53	50	46	43	49



Nefrologiske afdelinger, Regionshospitaler

Antal publikationer

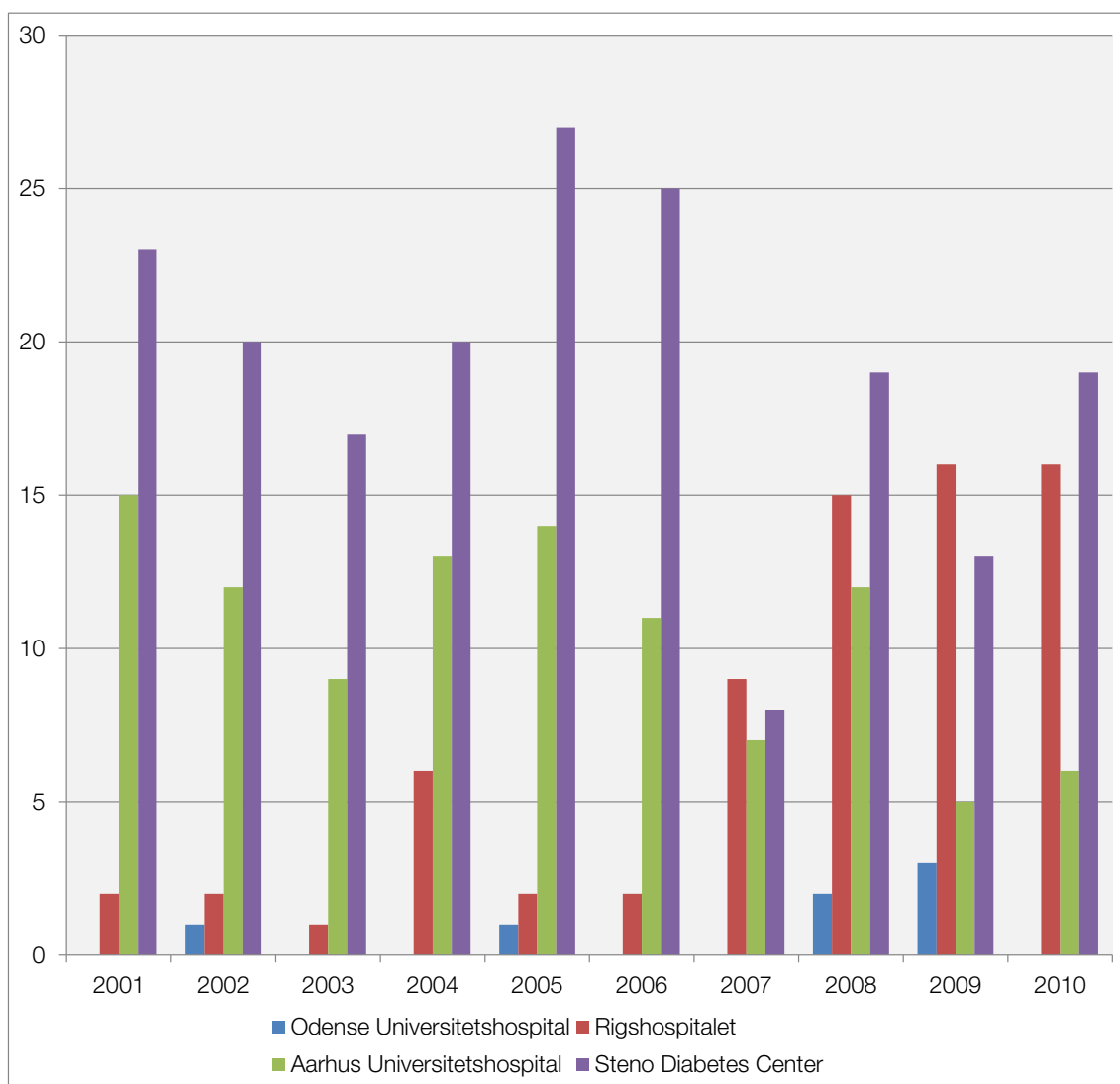
Afdeling	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sydvestjysk Sygehus	1	2	0	1	2	0	1	0	0	0
Roskilde Sygehus	1	1	1	0	0	0	0	0	5	0
Fredericia Sygehus	0	0	2	0	0	0	0	1	0	1
Hillerød Hospital	0	0	0	0	1	1	1	1	0	1
Holbæk Sygehus	0	0	0	0	0	0	0	1	0	0
Regionshospitalet Viborg	0	0	1	0	1	0	0	1	1	0
Regionshospitalet Holstebro	5	4	3	3	4	4	2	6	4	7
Nykøbing F. Sygehus	0	0	0	0	1	0	0	0	0	0
Bornholms Hospital	0	0	0	0	0	1	0	0	0	1
Kumuleret	7	5	7	4	9	6	4	10	10	10



Endokrinologiske afdelinger, Universitetshospitaler

Antal publikationer

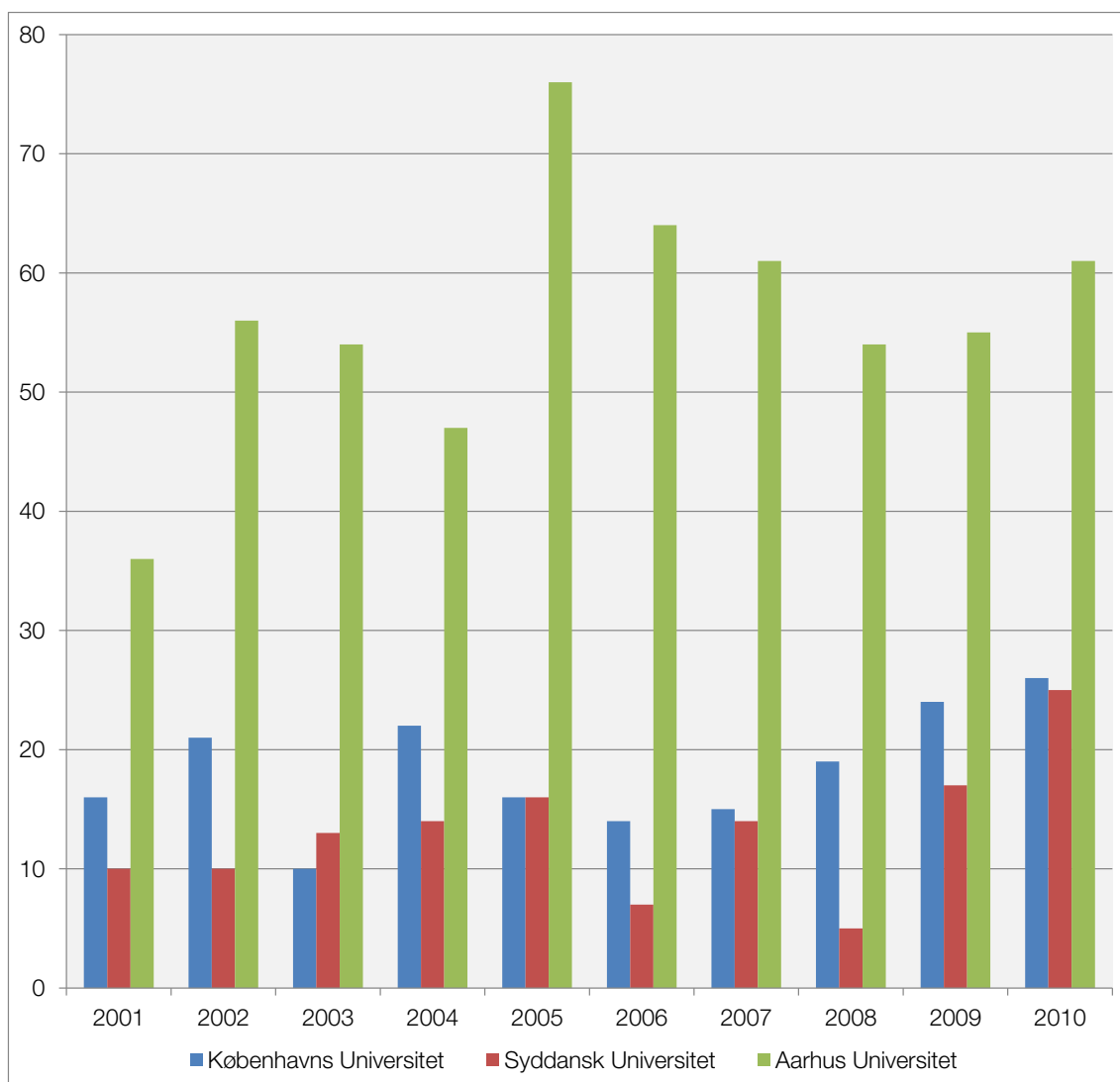
Afdeling	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Odense Universitetshospital	0	1	0	0	1	0	0	2	3	0
Rigshospitalet	2	2	1	6	2	2	9	15	16	16
Aarhus Universitetshospital	15	12	9	13	14	11	7	12	5	6
Steno Diabetes Center	23	20	17	20	27	25	8	19	13	19
Kumuleret	39	32	26	37	38	34	21	31	29	30



Universitetsinstitutter

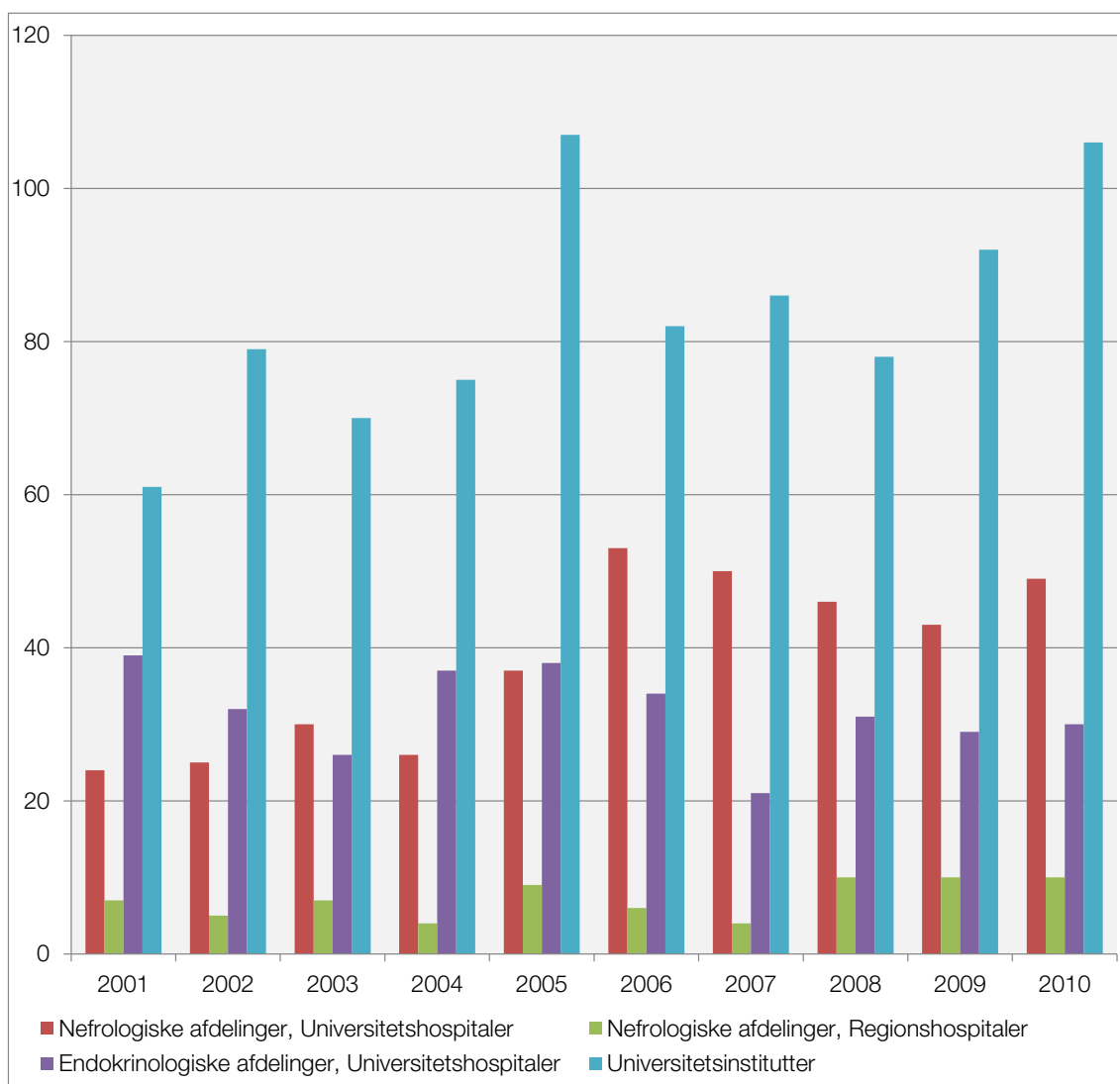
Antal publikationer

Afdeling	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Københavns Universitet	16	21	10	22	16	14	15	19	24	26
Syddansk Universitet	10	10	13	14	16	7	14	5	17	25
Aarhus Universitet	36	56	54	47	76	64	61	54	55	61
Kumuleret	61	79	70	75	107	82	86	78	92	106



Samlet produktion

Afdeling	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Nefrologiske afdelinger, universitetshospitaler	24	25	30	26	37	53	50	46	43	49
Nefrologiske afdelinger, regionshospitaler	7	5	7	4	9	6	4	10	10	10
Endokrinologiske afdelinger, universitetshospitaler	39	32	26	37	38	34	21	31	29	30
Universitetsinstitutter	61	79	70	75	107	82	86	78	92	106



Datadokumentation og søgeprofil

Dataindsamling

Litteratursøgning blev foretaget med henblik på at identificere klinisk nefrologisk forskning samt nyrerelateret grundforskning. Der blev søgt i følgende bibliografiske databaser, for at opnå så komplet en søgning som mulig: Medline (via PubMed), Embase (via OvidSP) og Science Citation Index-Expanded (via Web of Science). Inklusionen af databaser blev foretaget med udgangspunkt i dækningsgrad og tilgængelighed.

I PubMed og Embase anvendtes databasernes kontrollerede vokabularer – MeSH (Medical Subject Headings) og Emtree-thesaurus – indenfor nyresygdomme og nefrologi. Yderligere blev der afgrænset med søgning på 'danmark/denmark' i feltet for affiliation eller 'Danish' i feltet for sprog. I PubMed indekseres kun første forfatters adresse, og søgningen i adressefelterne i PubMed er derfor ikke udtømmende. Kun artikler fra tidsskrifter, der er indekseret og har fået MeSH/Emtree-emneord, blev fundet i søgningen.

I Web of Science blev der søgt i emneordsfeltet på nyrerelaterede emneord. Derudover blev der søgt i adressefeltet på afdelingsnavne indeholdende ordene 'neph*', 'kidney*', 'nyre*', 'renal*', 'nefr*', 'hemodialys*' eller 'haemodialys*'. Efterfølgende blev begge søgninger kombineret med en søgning på 'danmark/denmark' i adressefeltet. En supplerende søgning på emnekategorien "Nephrology & Urology" gav ingen yderligere resultater.

Søgningen på afdelingsnavne i Web of Science blev foretaget med ønsket om at identificere artikler, der var udgået fra nyremedicinske afdelinger uanset artiklens emne. Kun Web of Science medtager alle forfatteres tilhørende adresse. Det skal i denne sammenhæng bemærkes, at blandt andet tidsskriftet Ugeskrift for Læger ikke indekseres i basen.

Søgningerne var begrænset til tidsperioden 2001-2010 samt til dokumenttyperne Article, Letters og Reviews.

PubMed identificerede 1.226 poster, Embase 3.116 og Web of Science 2.395.

Databearbejdelse

Posterne fra de tre søgninger blev samlet og kontrolleret for sammenfald af DOI eller kombinationen af ISSN, volume, ugivelsesår og sidetal ($n = 3.620$). Manuel gennemgang førte til en yderligere præcisering af datasættet ($n = 3.520$). Alle artikler blev herefter fremfundet og håndsorteret ud fra følgende inklusions- og eksklusionskriterier:

Inklusion

- Artikler der, uanset emne, er udgået fra danske nefrologiske afdelinger. Dette ses i artiklens oplysninger om affiliation.
- Artikler, der omhandler nefrologiske emner, udgået fra ikke-nefrologiske, danske afdelinger.
- Artikler, der omhandler nyrerelaterede emner, udgået fra universitetsinstitutter eller medicinalvirksomheder.

Eksklusion

- Diabetologi uden renal relevans
- Onkologi
- Urologi

Bibliotekarer foretog første sortering i tre kategorier: Relevante, ikke relevante og måske relevante. Efterfølgende blev alle artikler vurderet af to nefrologiske speciallæger, med et endeligt resultat på $n = 1,498$ relevante publikationer.

De relevante publikationer blev herefter gennemgået med henblik på forskningslokalitet. Institutions- og afdelingsnavne blev standardiseret til nuværende navneetegnelser. Der har i perioden 2001 - 2010 været en række navneskift som følge af sammenlægninger af sygehuse, institutter, centre og afdelinger.

Metodeovervejelser

Nærværende analyse er baseret på de anførte litteratursøgninger. Sammenholdt med for eksempel afdelingernes årsberetninger eller forskernes CV'er, vil der være uoverensstemmelser, som evt. kan tilskrives følgende forhold:

- Publikation i tidsskrifter, der ikke medtages i databaserne
- Publikation i tidsskrifter, der medtages i databaserne, men ikke indekseres (og således ikke har emneord i form af enten MeSH eller Emtree-thesaurustermer)
- Artikler anført i forskningsberetninger som 'epub ahead of print' i 2010, men print-publiceret i 2011
- Artikler forfattet af forfattere med ansættelse på nefrologiske afdelinger, der i artiklen er anført uden adresse eller som har angivet anden adresse/arbejdssted
- Artikler indekseret som konferencebidrag

Samarbejdsanalyse

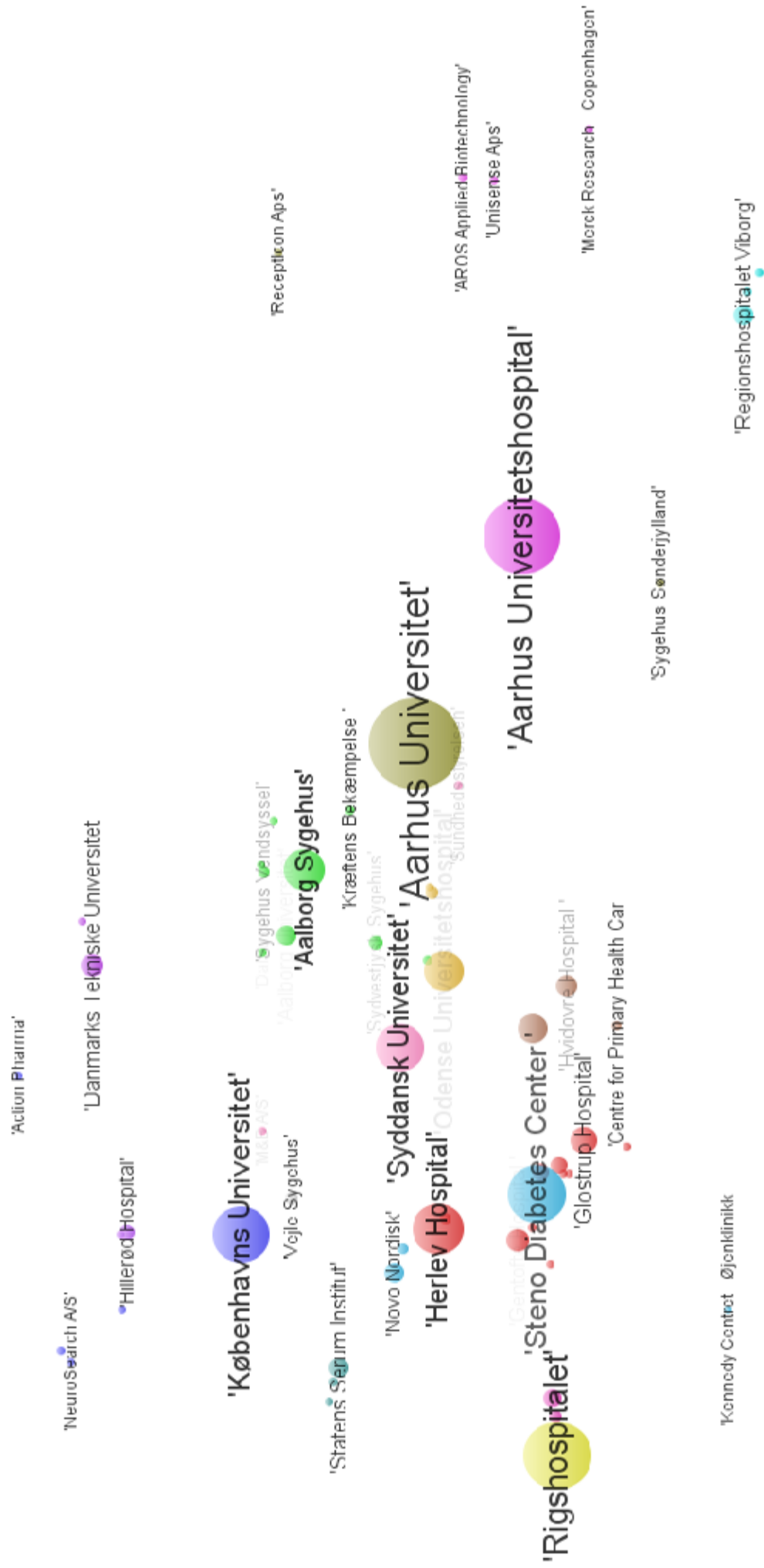
På følgende side illustreres samarbejdet imellem de inkluderede institutioner. Analysen er fremstillet med programmet VosViewer (<http://www.vosviewer.com>), som afbilder klynger af elementer, der deler visse egenskaber. I herværende tilfælde illustrerer ligheden andelen af publikationer, som to eller flere institutioner har samarbejdet om. Denne lighed er illustreret som afstanden imellem to institutioner. Jo kortere afstand des mere samarbejde. VosViewers algoritme har en indbygget variation, da algoritmer opererer med sandsynligheder itereret ud fra en tilfældig start. To kørsler af programmet vil derfor ikke nødvendigvis være identiske, men variationerne vil være forholdsvis små.

Institutionerne er afbildet som cirkler, hvor cirklernes størrelse indikerer institutionernes samlede nyre-relaterede produktion over hele perioden. Størrelsen på cirklerne er uafhængig af institutionernes samarbejde. Cirklernes farver er afgjort af en algoritmisk kategorisering i klynger; Institutioner, der har særlig høj grad af samarbejde vil blive tildelt samme klynge og dermed farve. Tildelingen kan være delvis ensrettet, dvs. hvis en mindre enhed har et meget nært samarbejde med en større enhed, kan disse blive grupperet, selvom den større enhed også har samarbejde med andre enheder.

Samarbejdsrelationerne er ikke vægtet efter antallet af medforfattere, det vil sige hvis enhed A og B har medforfattere på en artikel vil dette vægte lige højt, uanset om enhed C, D og så videre også har medforfattere på artiklen.

Der er udelukkende vist enheder, der har samarbejdsrelationer med mindst een anden enhed. Der kan derfor være udeladt for eksempel privatpersoner eller mindre medicinalvirksomheder, der ikke har haft samarbejde med øvrige enheder i perioden.

Det fremgår, at forskningsaktiviteterne har været centreret omkring de store enheder: universitetsinstitutter og kliniske universitetsafdelinger. Endvidere ses, at der har været et tæt samarbejde mellem regionsafdelinger og deres regionale universitetshospital. Dette er især tydeligt i Region Nordjylland (grøn klynge omkring Aalborg Sygehus). Region Hovedstadens hospitaler (rød klynge omkring Herlev Hospital) har et stærkt, internt samarbejde men har udadtil et mere spredt samarbejde med hhv. Steno Diabetes Center, Rigshospitalet og Københavns Universitet. Grundet VosViewers algoritme til visning af enhedsnavne er Odense Universitetshospital kun vist utydeligt, men kan på kortet findes som den orange cirkel til højre for Syddansk Universitet. Region Midts regionshospitaler har et nært samarbejde med Aarhus Universitetshospital, om end dette ikke fører til en samlet klynge. Iterative tests af klyngealgoritmen viser, at regionshospitalerne fra Region Midt ligger på grænsen til at blive kategoriseret sammen med Aarhus Universitetshospital, idet klyngen dannes lidt under halvdelen af iterationerne. Dette påvirkes sandsynligvis af Aarhus Universitetshospitals stærke samarbejde med Aalborg Sygehus.



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Nefrologiske afdelinger

I de følgende litteraturlister er alle nefrologiske artikler, publiceret af forfattere ved de nefrologiske afdelinger på universitetshospitalerne anført. Ved senere lister for universitetshospitalernes samlede, nefrologiske artikelproduktion vil disse referencer også være indeholdt.

Herlev Hospital (Nefrologisk Afdeling)

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16. Heaf JG. Bone disease after renal transplantation. *Transplantation* 2003;75(3):315-25.
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I ovenstående litteraturliste er alle nefrologiske artikler fra hele sygehuset medregnet. Der kan derfor forekomme gentagelser af referencer fra afsnittet, der dækker de nefrologiske afdelinger eksklusivt.

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I ovenstående litteraturliste er alle nefrologiske artikler fra hele sygehuset medregnet. Der kan derfor forekomme gentagelser af referencer fra afsnittet, der dækker de nefrologiske afdelinger eksklusivt.

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