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Department of Ophthalmology

A photograph of a modern, multi-story building with a light-colored facade and numerous balconies. The balconies are enclosed with bright orange glass panels, creating a vibrant pattern against the building's exterior. The building is situated on a street with some greenery and a blue sky in the background. A dark blue semi-circular graphic overlay is positioned in the bottom right corner, partially covering the building image.

Performance Review 2019



Dear colleagues,

despite the corona pandemic, we don't want to withhold our annual review for 2019. Our patients experience treatment at a consistently high level despite the current conditions. However, numerous colleagues are directly helping to fight COVID-19 as well. We are looking forward to better times and hope you stay safe and healthy!

Ophthalmology at the University Hospital of Cologne



The Department of Ophthalmology at the University Hospital of Cologne is one of the largest ophthalmological clinics in Europe. While maintaining excellent standards, an annual average of about 7,000 inpatients and 50,000 outpatients are treated here by a team of 40 doctors and 20 scientists in all areas of ophthalmology. Thanks to extensive subspecialization, we are able to offer the most modern diagnostic methods and therapies for our patients from Cologne, the Rhineland, Germany, Europe, and the rest of the world, while maintaining a humane and scientifically oriented way of practicing medicine 365 days of the year.

We are the only ophthalmological University Hospital in Germany which is supported by a Research Unit of the German Research Foundation (DFG) in order to discover new therapeutic approaches to thus far untreatable diseases.

We proudly look back at the more than 100-year-old history of the Department of Ophthalmology at the University Hospital of Cologne. It allows us to now successfully treat our patients through university medicine and pave the way for the future through teaching and research.

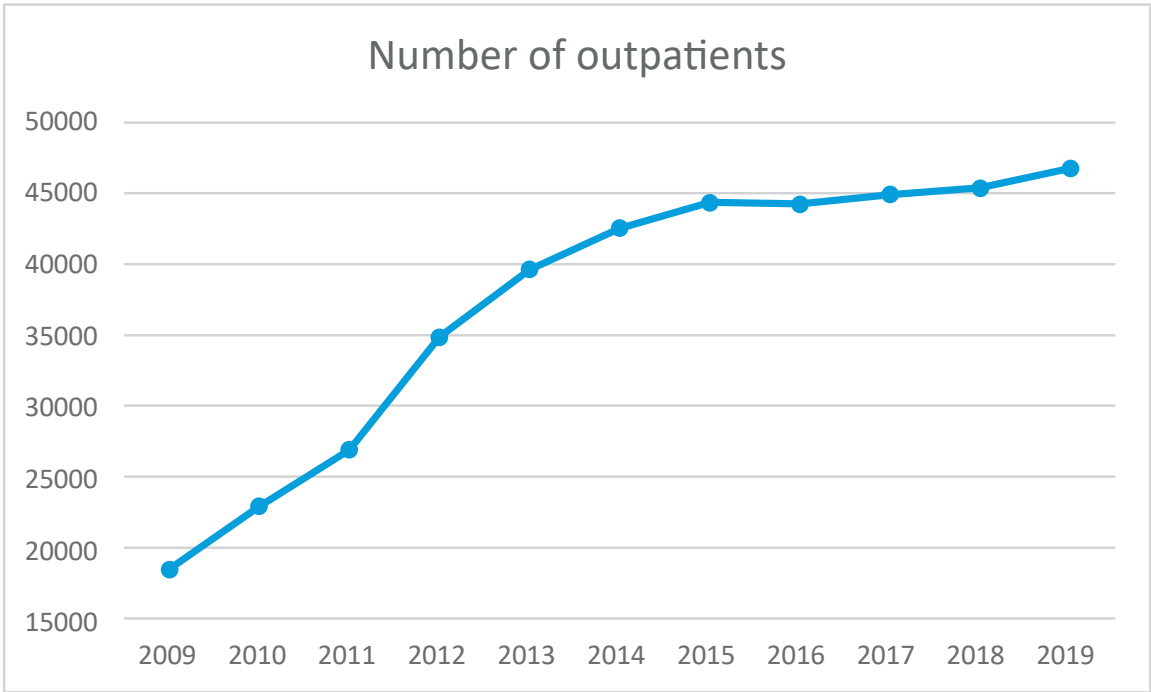
On behalf of all staff members

Prof. Dr. Claus Cursiefen



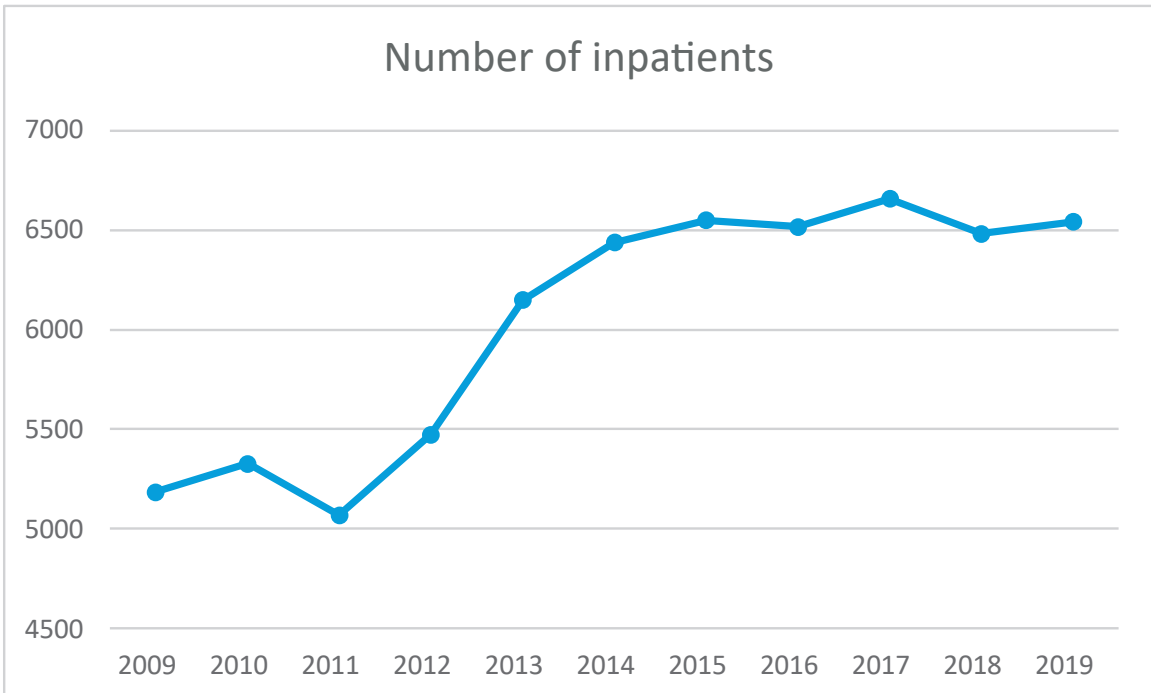
Out- and inpatient Case Numbers

For the past 100 years, the Department of Ophthalmology at the University Hospital of Cologne has been broadening its medical spectrum significantly. Outpatients as well as inpatients receive the newest conservative and surgical treatments for any kind of ophthalmological disease, pursuant to the highest standards of medicine.



2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
18476	22906	26912	34862	39655	42548	44355	44253	44930	45399	46773

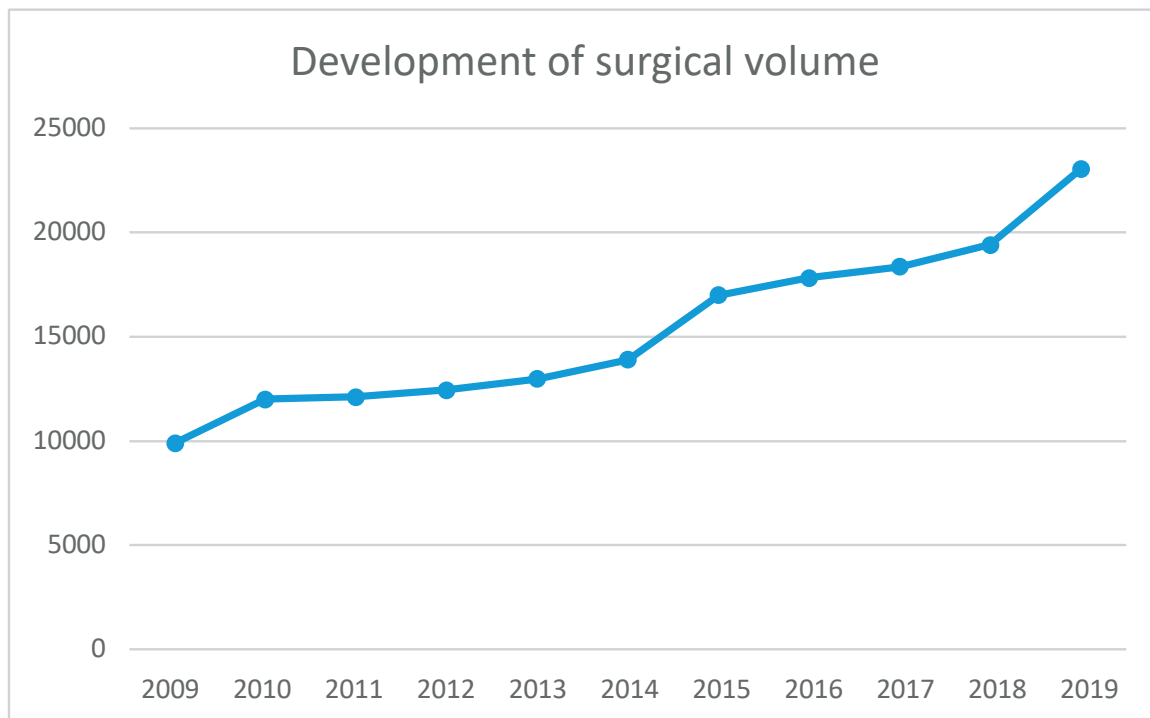
The number of actual patients seen is much higher.



2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
5184	5328	5068	5473	6150	6438	6551	6518	6658	6483	6543

Surgery at the Department of Ophthalmology

The Department of Ophthalmology at the University Hospital of Cologne offers treatments for any kind of ophthalmological disease in five different operating rooms, equipped with highly innovative technology. Corneal disease, glaucoma, cataract, diseases of the eyelid, orbit and the lacrimal duct, strabismological and neuro-ophthalmic issues, as well as retinal conditions, are surgically treated here. The most modern methods of lamellar corneal surgery (DMEK, DSAEK, DALK) and refractive surgery using laser (Femto-LASIK) have been incorporated in our range of surgical treatments for years. Since obtaining a femtosecond laser in 2018, not only cataract surgery but also corneal transplantation (Femto-DALK, Femto-pKPL) is now performed using a very careful procedure.



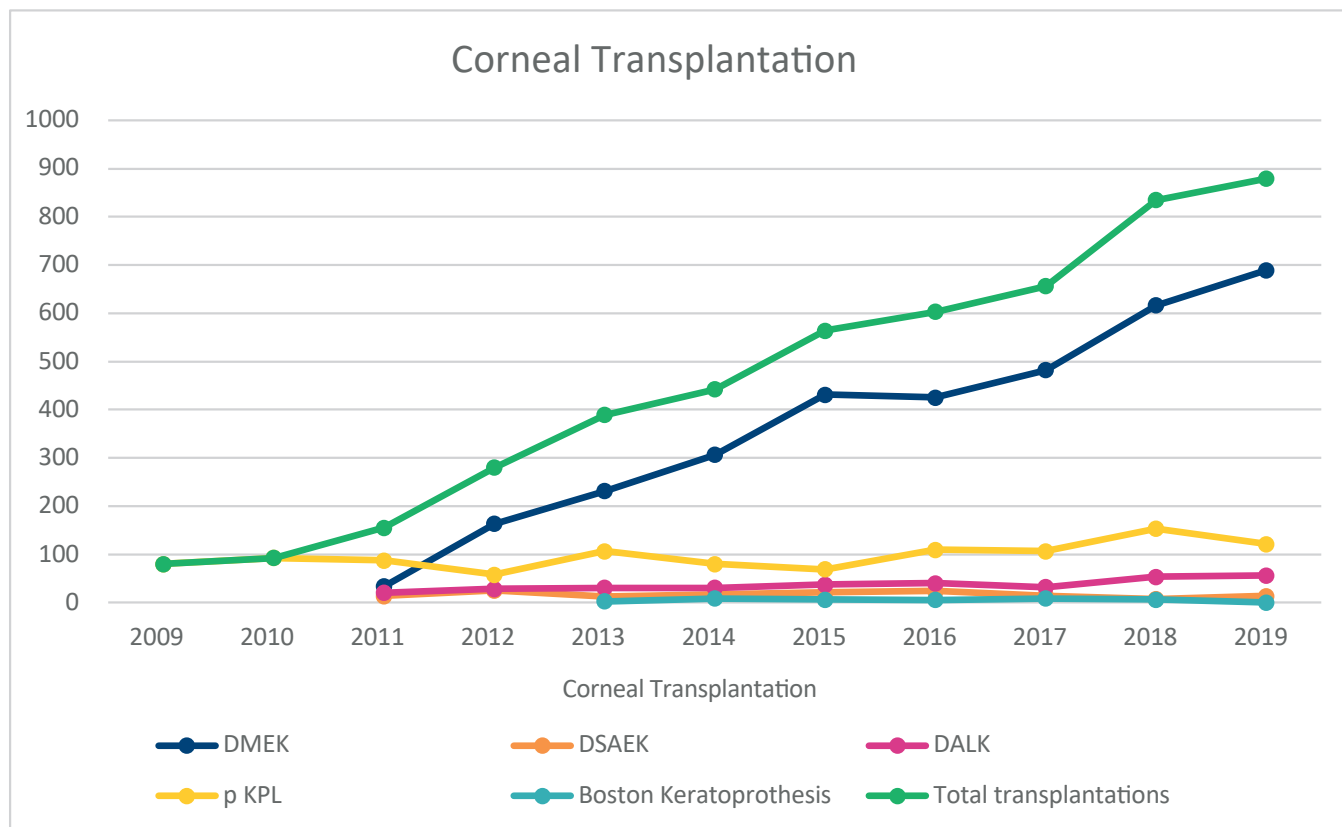
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Operationen	9895	11993	12107	12439	12982	13896	17004	17837	18363	19415	23054

Overview of surgeries on outpatients and inpatients in 2019

Corneal transplantations	879
Operations on the eye muscles	1499
Eyelid, orbita, lacrimal duct, and lacrimal gland procedures	2161
Cornea and conjunctival procedures	874
Iris, ciliary body, anterior chamber, and sclera surgeries	2770
Lens surgeries	2529
Retina, choroid, and vitreous body surgeries, incl. retinal laser	4531
Intravitreal medication injection into the vitreous body	7810
Total	23054

Corneal Transplantation

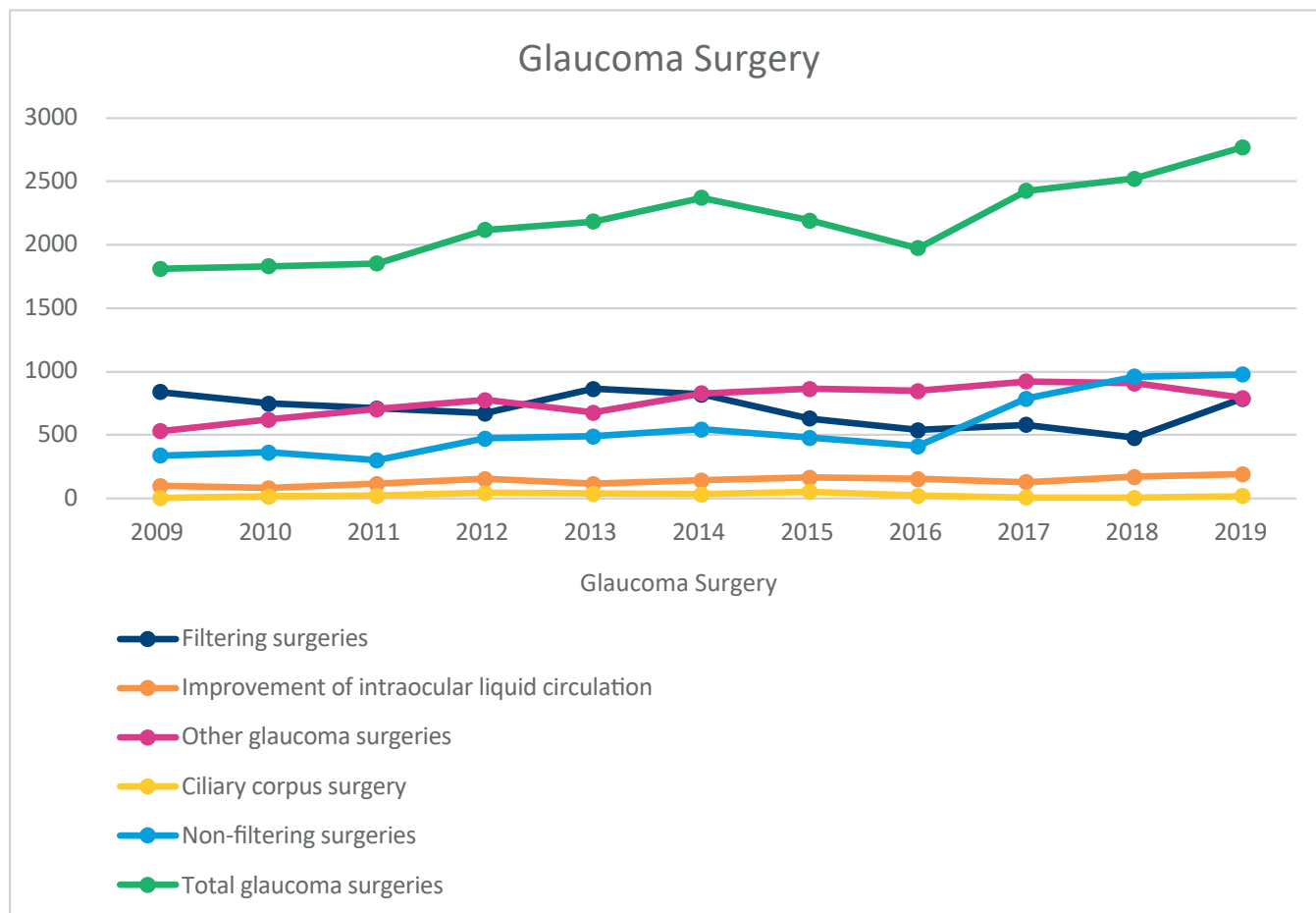
Under the direction of Priv.-Doz. Dr. Sigrig Roters, donated corneal tissue is examined and prepared following strict guidelines in our cornea bank (University of Cologne Eye Bank). Performing close to 900 corneal transplantations in 2019, the Department of Ophthalmology is still the largest medical center for transplantations in Germany. They are performed by experienced surgeons and cornea specialists Prof. Dr. Claus Cursiefen, director of the clinic, Prof. Dr. Björn Bachmann and PD Dr. Sigrig Roters, and PD Dr. Mario Matthaei, senior physicians at the Department of Ophthalmology at the University Hospital of Cologne. **More than 10% of all corneal transplantations in Germany are performed here in Cologne.**



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
DMEK			33	163	231	306	431	425	482	616	689
DSAEK			13	25	12	17	21	24	14	7	13
DALK			20	28	30	30	37	40	32	53	56
p KPL	80	92	87	58	106	80	69	109	106	153	120
Boston Keratoprothesis					2	8	6	5	8	6	1
Total transplantations	80	92	155	280	389	442	564	603	656	835	879

Glaucoma Surgery

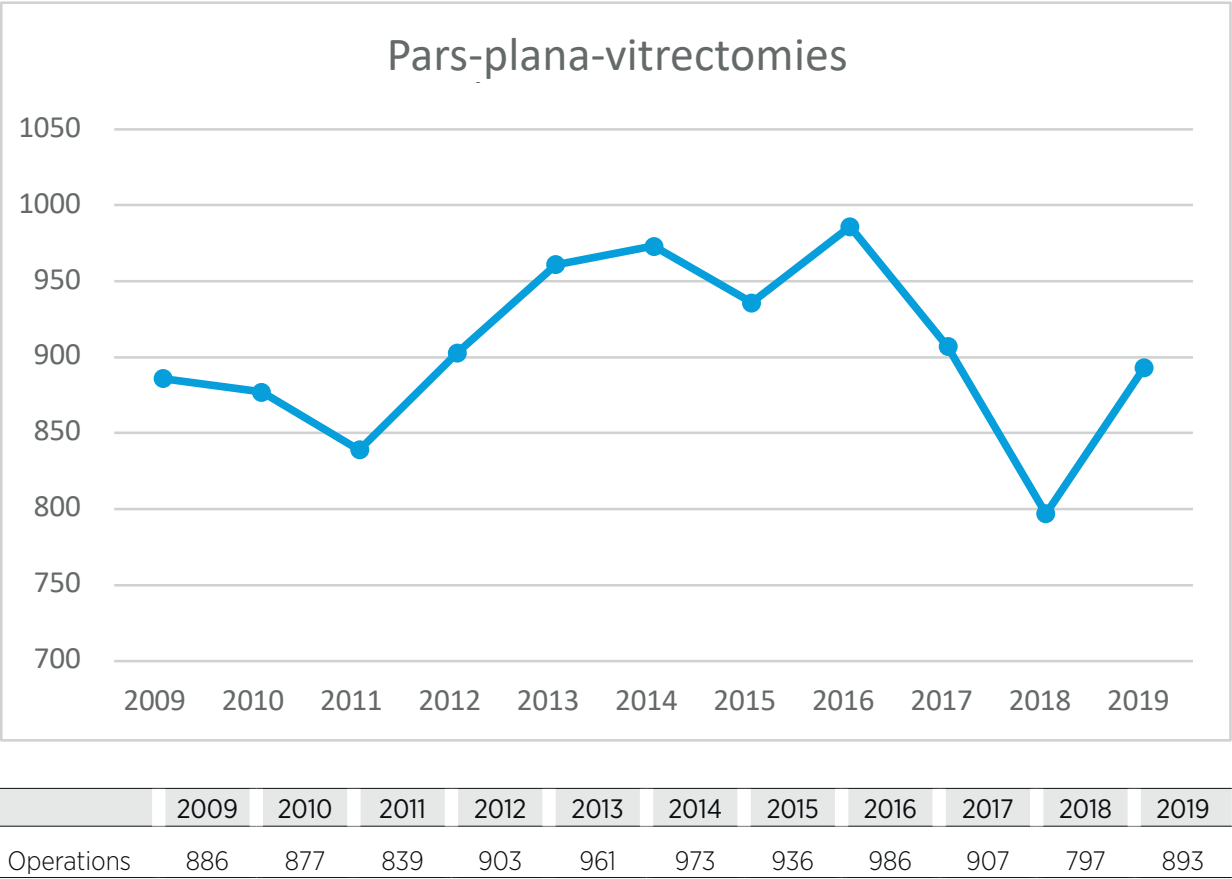
At the Department of Ophthalmology at the University Hospital of Cologne, access to the most modern medical devices makes wide-ranging diagnostic findings possible. These are consistently applied during the initial visit and annual follow-up visits, for the purpose of detecting a possible progression of the glaucoma at an early stage and treat it accordingly. Furthermore, keeping track of 24 -hour measurements of the intraocular pressure provides information that helps choosing and establishing further therapy with certainty. Under the direction of Prof. Dr. Thomas Dietlein, senior physician at the Department of Ophthalmology, time-tested surgical procedures as well as the newest micro technical surgeries (like stents and implants) are applied.



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Filtering surgeries	841	750	711	671	866	821	631	540	580	480	787
Ciliary corpus surgery	99	83	115	154	114	143	166	154	128	171	192
Improvement of intraocular liquid circulation	530	622	706	777	678	829	864	848	922	908	794
Non-filtering surgeries	4	15	21	44	38	34	52	22	8	5	20
Other glaucoma surgeries	338	363	302	473	489	546	480	412	788	960	977
Total glaucoma surgeries	1812	1833	1855	2119	2185	2373	2193	1976	2426	2524	2770

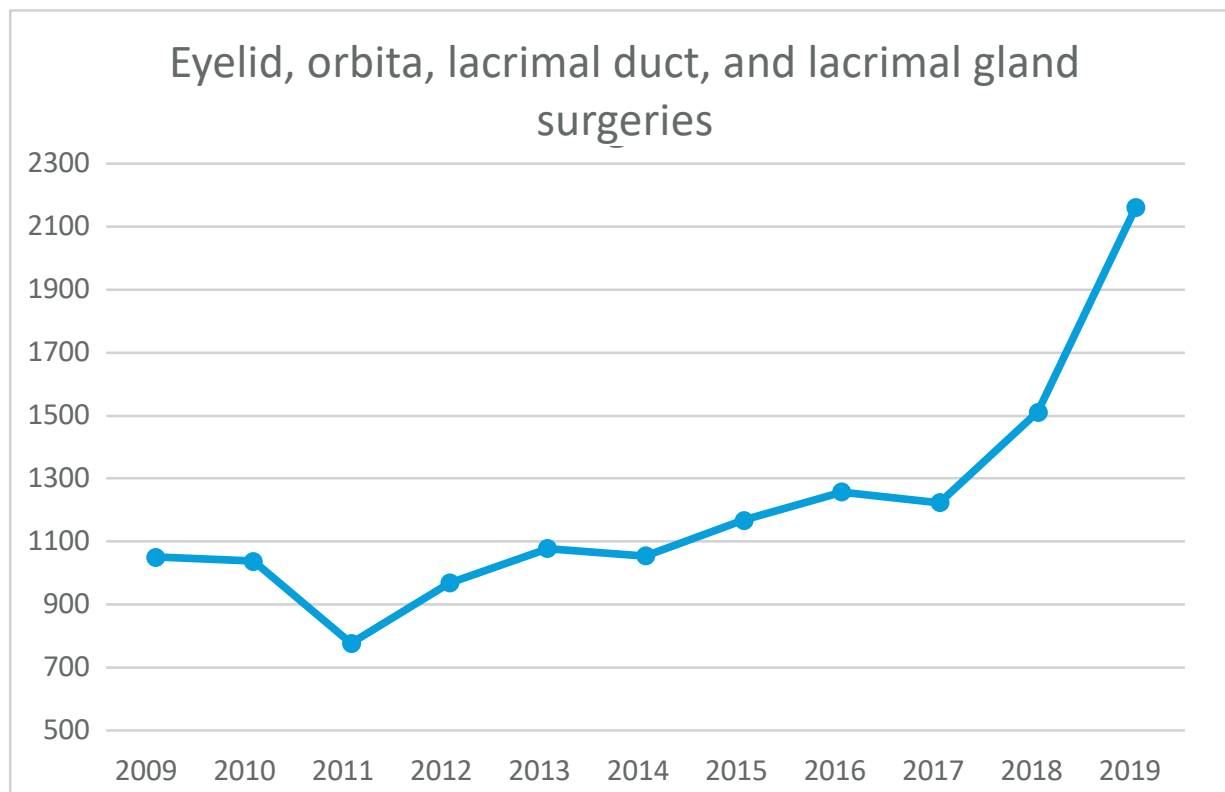
Retina and Vitreous Body Surgery

The Department of Ophthalmology at the University Hospital of Cologne offers a wide spectrum of surgical procedures regarding the retina and vitreous body. Under the temporary direction of Dr. Claudia Dahlke, our patients are treated using plumbing surgery, gas and silicone oil tamponade, laser, and cold treatment, as well as all kinds of vitrectomy procedures.



Ophthalmic Oncology and Ophthalmic Plastic Surgery

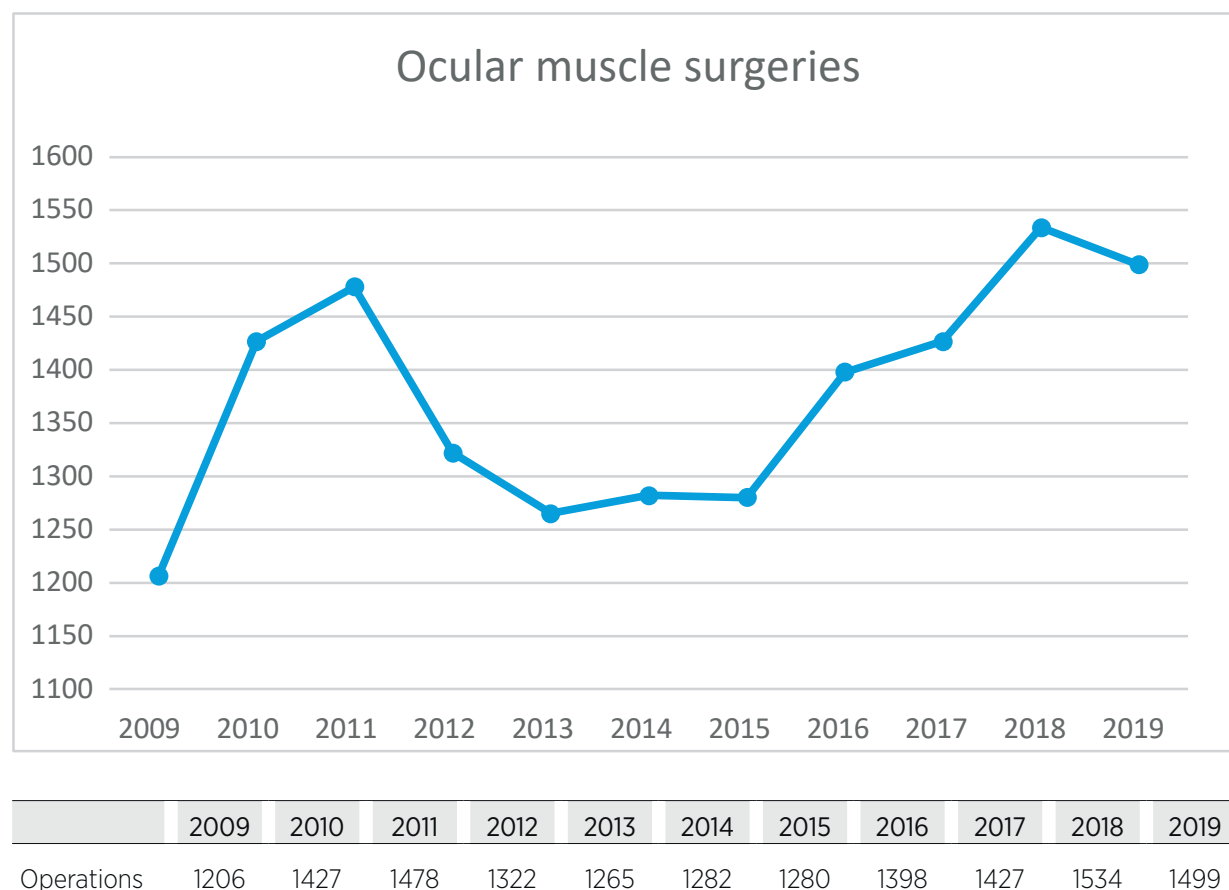
Under the direction of Univ.-Prof. Dr. Ludwig Heindl, all forms of benign and malignant tumors of the eyelid, orbita, conjunctiva, retina, choroid, and ciliary body are treated here in the ophthalmooncologic and ophthalmoplastic department. Thanks to our close cooperation with the Center for Integrated Oncology (CIO), patients can receive interdisciplinary care including radiotherapy using Cyberknife. Moreover, conditions of the lacrimal drainage system and orbit, as well as eyelid disorders are treated here. This department was successful in establishing novel minimally-invasive surgical techniques to treat lacrimal obstructions.



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Operations	1050	1037	777	969	1078	1055	1168	1257	1223	1511	2162

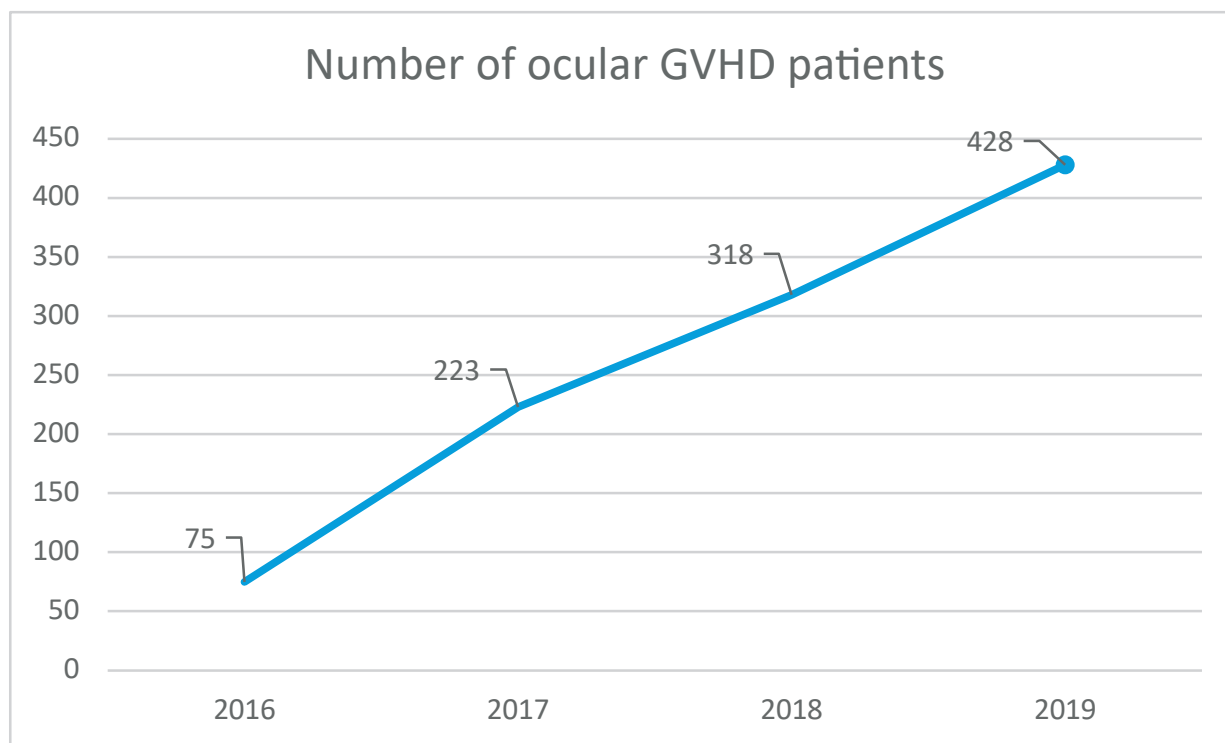
Strabismology and Neuro-ophthalmology

Strabismological and neuro-ophthalmological diseases are treated under the direction of Prof. Dr. Antje Neugebauer and Dr. Julia Fricke. Highly complex neuro-ophthalmic conditions as well as congenital and acquired forms of strabismus are diagnosed and treated here. With the assistance of the orthoptists and the students of the School of Orthoptics, patients with amblyopia, eye movement disturbances, or nystagmus can be treated here, among other things.



Competence Center for Ocular GVHD

Under the direction of Prof. Dr. Philipp Steven, who specializes in dry eye and ocular graft-versus-host-disease, patients are treated before and after allogeneic hematopoietic stem cell transplantation (HSCT). The competence center already moved to the recently inaugurated facilities of the CIO, the largest oncological outpatient center in Germany (<https://augenlinik.uk-koeln.de/erkrankungen-therapien/kompetenzzentrum-okulaere-gvhd/>) and introduced an as of yet unparalleled integrative concept that, in cooperation with the transplantation program, leads to the realization of highly effective diagnostic and therapeutic treatments at the highest standard. The Center of Excellence has grown tremendously in the past four years and is now the largest medical center of its kind in Germany. Due to preexisting cooperation with different national haemato-oncologic transplantation programs, we are expecting an even larger number of patients for this particular indication.



Numerical Overview – Department of Ophthalmology

Inpatient beds	70	Average length of stay (days)	3	Outpatient departments	
Wards	4	Number of surgeries	23.053	and consultation	20
Number of inpatients	6.543	Number of operating rooms	5	Ophthalmologists	50
Utilization	>83%	Number of outpatients	46.773	Consultants	16
				Staff	7

Number 1 in Germany for Research Publications

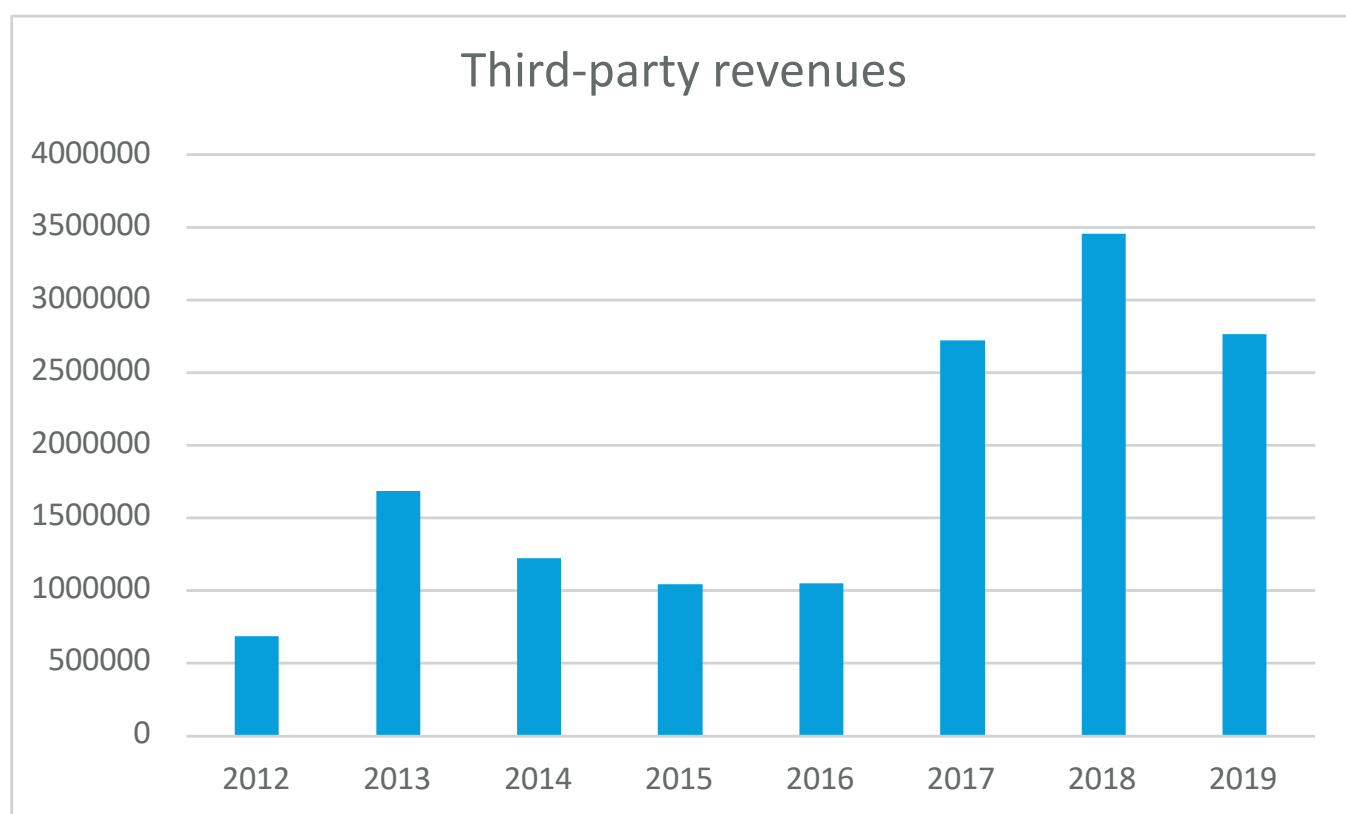
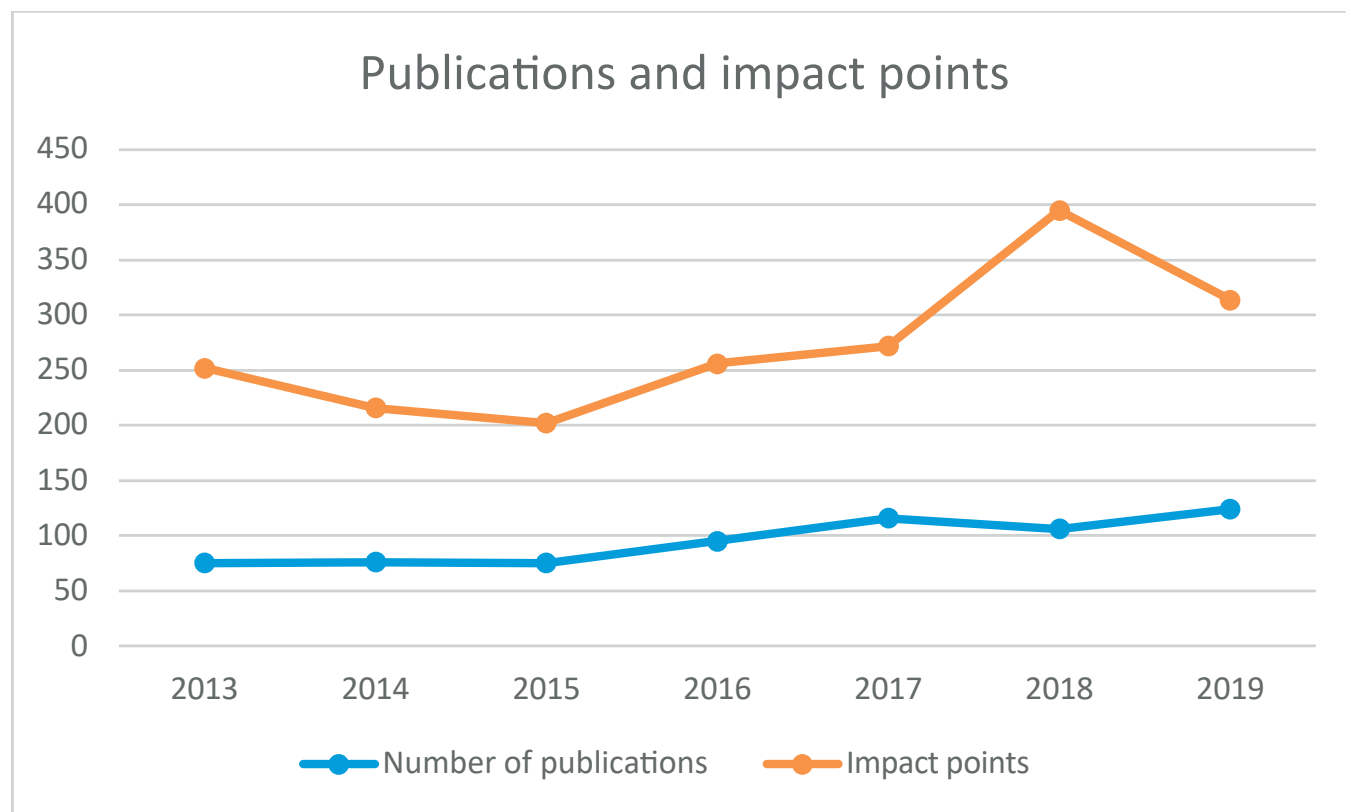
Nowadays, many diseases of the eye are treatable thanks to intensive and continuous research. However, the need for research remains high due to many unanswered questions. The Department of Ophthalmology at the University Hospital of Cologne is one of the strongest institutions for research in Germany. This has now been confirmed by the recently published “Research Map Germany 2019” of the German Association of Ophthalmology (DOG). **It states that the ophthalmological center in Cologne with its 192 scientific publications and an overall impact factor of 475 places at the top of all ophthalmological institutions in Germany.**

The DOG has collected data from 36 university eye clinics and research institutions during the period 2015 to 2017. The number of publications in scientific journals was used as an indicator of research activity. The Department of Ophthalmology at the University Hospital of Cologne has 192 publications and a total impact factor of 475 and is, therefore, number one in Germany. For comparison: The average number of publications in all 36 university eye clinics is 60. Regarding the number of habilitations, Cologne’s ophthalmology is tied with Tübingen for the number one spot (both 7).

“I am very proud of this leading position. It reflects our strength in research and it is certainly also the product of the success of our DFG research group FOR2240”, says Univ.-Prof. Dr. Claus Cursiefen, director of the Department of Ophthalmology at the University Hospital of Cologne. He is the spokesperson for FOR2240 “Lymphangiogenesis and cellular immunity in inflammatory diseases of the eye”. This research group focuses on gaining insights into age-related and inflammatory or rather neovascular diseases of the eye. Their goal is to develop new therapies for such common and severe diseases as dry eye syndrome, pterygium, age-related macular degeneration, intraocular tumors or immune re-

sponse to grafts. We are the only ophthalmological university clinic with a research group on the board of the German Research Foundation (DFG).

Univ.-Prof. Dr. Gereon Fink, board member of the University Hospital of Cologne and dean of the medical faculty, adds: "This confirms the scientific strength of our ophthalmological department and shows yet again how extraordinarily well-placed university medicine in Cologne is within the dynamic and highly competitive landscape of science and research."

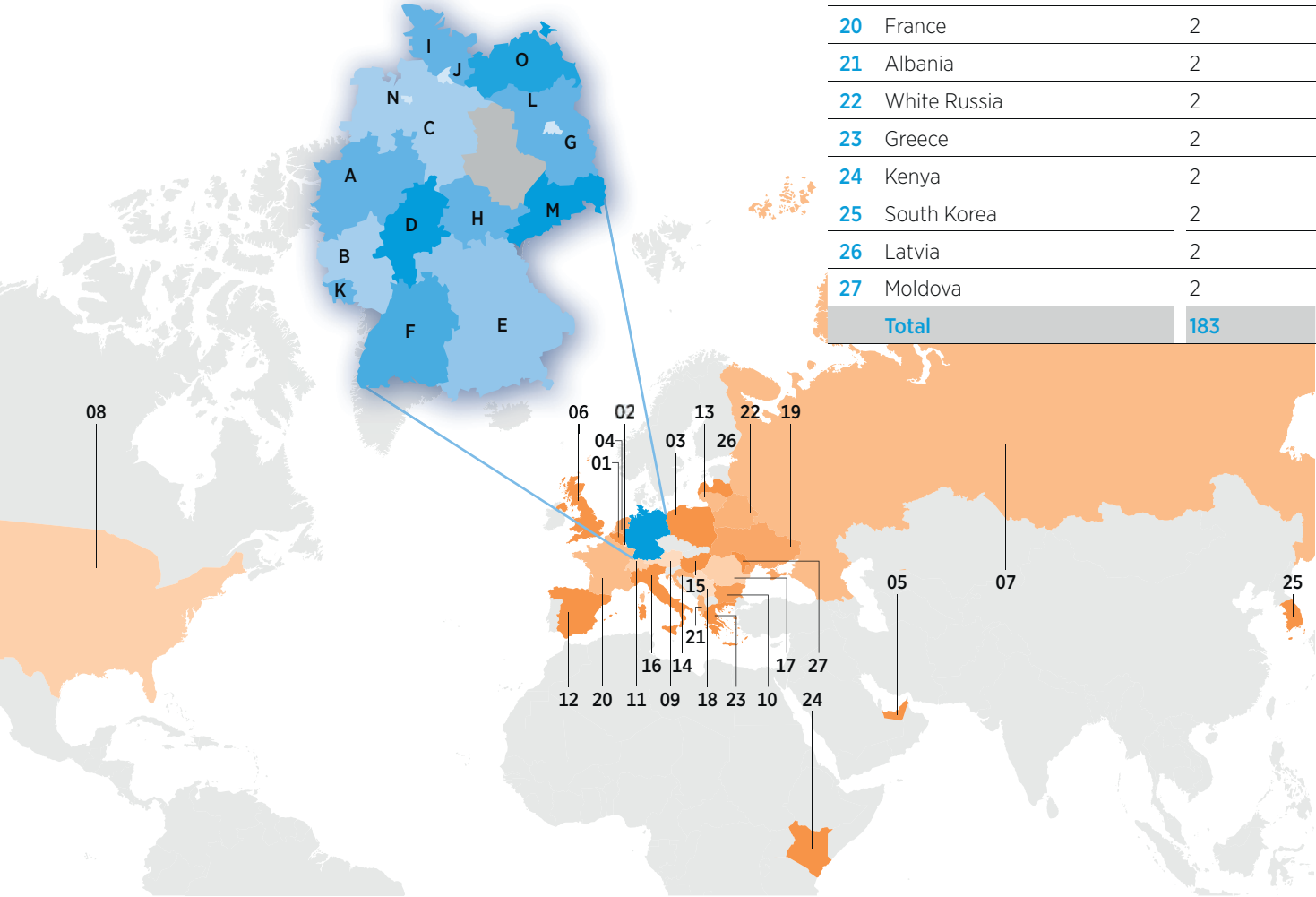


Origin of German patients with statutory health insurance (based on referring physicians)

State	number of hospitalisation
A Northrhine-Westphalia	24493
B Rhineland Palatinate	1352
C Lower Saxony	610
D Hesse	187
E Bavaria	46
F Baden-Württemberg	44
G Berlin	24
H Thuringia	22
I Schleswig-Holstein	17
J Hamburg	16
K Saarland	15
L Brandenburg	8
M Saxony	8
N Bremen	5
O Mecklenburg Western Pomerania	3
International patients	183
Total	27123

International Patients (Country of Origin)

Country of origin	Patients
01 Belgium	35
02 Luxembourg	21
03 Poland	21
04 Netherlands	13
05 United Arab Emirates	10
06 Great Britain	8
07 Russia	8
08 USA	8
09 Austria	5
10 Bulgaria	5
11 Switzerland	5
12 Spain	5
13 Lithuania	5
14 Croatia	3
15 Hungary	3
16 Italy	3
17 Romania	3
18 Serbia	3
19 Ukraine	3
20 France	2
21 Albania	2
22 White Russia	2
23 Greece	2
24 Kenya	2
25 South Korea	2
26 Latvia	2
27 Moldova	2
Total	183



Ophthalmology Department with the highest number of “top doctors” in Germany: Five Experts from University Eye Hospital in “Focus Health Ranking”

The Department of Ophthalmology at the University Hospital of Cologne was ranked as the number one in ophthalmology in the German magazine FOCUS GESUNDHEIT (Focus Health) in 2019. According to this ranking, our eye clinic has five top doctors and therefore the highest number of recommended ophthalmologists in Germany.

In this list of physicians, they name Prof. Dr. Thomas Dietlein for glaucoma, Prof. Antje Neugebauer and Dr. Julia Fricke for strabismology and neuro-ophthalmology, as well as Univ.-Prof. Dr. Claus Cursiefen and Prof. Dr. Björn Bachmann for corneal transplantation.

The Department of Ophthalmology at the University Hospital of Cologne is not only one of the largest university eye clinics in Europe, but it is also the most subspecialized in Germany.

Successful Cooperation with the Filatov Eye Institute Odessa, Ukraine

A successful cooperation between the Department of Ophthalmology at the University Hospital of Cologne and the Filatov Eye Institute Odessa, Ukraine was established during a collaboration project. This was made possible by the funding of the German Corporation for International Cooperation (GIZ).

It was the goal of both institutes to learn from each other especially in the field of partial corneal transplantation. Many exchanges and visits took place between them for this purpose. The main focus during this were Descemet membrane endothelial keratoplasty (DMEK) and deep anterior lamellar keratoplasty (DALK), both of which are procedures that Cologne is very renowned for.

Physicians from Odessa had the opportunity to familiarize themselves with the techniques of those transplantations. Additionally, there were special trainings in operating rooms in Odessa given by PD Matthaei and PD Siebelmann. This opportunity allowed physicians at the Filatov Eye Institute to practice and improve the DMEK procedure in a one-on-one teaching format, as well as adapting it to their local circumstances.

Furthermore, the cooperation culminated in several congress meetings and lectures between both clinics. In this context, Ukrainian scientists were able to attend and present their own findings at the annual congress of the German Association of Ophthalmology (DOG). PD Matthaei and PD Siebelmann were invited to speak at the Filatov Memorial Lectures, during which they had the opportunity to give a lecture on Fuchs endothelial corneal dystrophy and the intraoperative use of optical coherence tomography. Ukrainian physicians also attended the 100th anniversary of the Department of Ophthalmology at the University Hospital of Cologne.

Currently, the cooperation between the two ophthalmological clinics is continued through joint research projects and publications and recently they submitted a manuscript on partial corneal transplantation as a solution approach to the shortage of donors in the Ukraine. Further publications are planned.

In summary, this cooperation has proven itself to be a great success and an enrichment for both institutes which enables physicians of both countries to learn from each other.

The Ophthalmological Department Joins Germany's Largest Oncologic Outpatient Clinic (CIO)

Recently, Germany's largest oncologic ambulatory facility was built on the campus of the University Hospital of Cologne. It has nearly 14,000 square meters and seven floors, and about 24,000 oncologic patients are treated here annually. All disciplines of oncology, which were previously spread around the campus, are now situated centrally in the Center of Integrated Oncology (CIO). Less aggravating treatments are now increasingly possible in an ambulatory setting and they require modern structures of organization that are highly specialized and interdisciplinary at the same time. The new facility meets all requirements of the promising and modern treatment of cancer patients. In addition to more than 30 different specialist consultation hours of the somatic disciplines, complementary therapy approaches such as psycho-oncology, oncological physical therapy, and nutritional consultation are offered. Due to the interdisciplinary approach, patients are treated according to the most recent clinical trials and scientific data.

Starting 1 June 2020, the Department of Ophthalmology will move two special departments to the CIO. The ophthalmooncologic department, led by Univ.-Prof. Dr. med. Ludwig M. Heindl, will treat patients with tumors in and around the eye there five days a week. Therefore, new patients can be treated quickly and interdisciplinarily, either for primary staging or to look for metastases during follow-up care.

The Competence Center for Ocular GVHD, led by Prof. Dr. Philipp Steven, has already moved into the CIO and is responsible for ophthalmological patients pre and post allogeneic hematopoietic stem cell transplantation. It is essential to be close to where the stem cell transplantations happen, for the patients are at high risk in case of infection.

Of course, as part of the interdisciplinary exchange, the ophthalmologic groups are also available for consultation requests from other cancer patients. By moving our groups for Ophthalmic Oncology and our Center of Excellence for Ocular GVHD to Germany's largest cancer outpatient clinic, we hope to set new standards in integrated care.



Photograph: MFK

Visiting Professor Michael E. Stern Inaugurated as a New Member of the Faculty

Professor Philipp Steven's group that specializes in dry eye disease and ocular GVHD treats well above 1000 patients with severe diseases of the ocular surface every year. The work of his internationally represented research group, which consists of biologists, pharmacists, software-engineers and PhD students, is closely interlinked with patient care. They work on improving the comprehension of fundamental disease mechanisms and the development of novel diagnostic and therapeutic approaches.

Professor Michael E. Stern is an internationally exceptional scientists who was now appointed continuous visiting professor. He travels to Cologne for a couple of weeks a year and is actively involved in the research projects of this group. "Professor Stern, who played a major role in describing the immunopathogenesis of dry eye disease and directly worked on developing topical ciclosporin treatment, is a great asset to our group", Professor Steven says. "The appointment of an internationally recognized capacity is also an indicator of Cologne's rise to the top level in ocular surface research throughout Europe."



(left to right: Prof. C. Cursiefen, Prof. M.E. Stern, Prof. P. Steven)

Photograph: MFK

History of Ophthalmology in Cologne dates back to antiquity

Ophthalmology in Cologne is retraceable back to 100 years ago.

The origin of the city of Cologne dates back to the Roman Empire. It was founded in 19 BC under the name of Colonia Claudia Ara Agrippinensium, as the capital of the province Germania inferior. Until the 2nd and 3rd century AD, it became one of the largest settlements north of the Alps. The excavation of the graves of ancient medical professionals suggested that there was an eye specialist that practiced the 3rd century AD. Therefore, the history of ophthalmology might be even older, in fact, 1600 years older.

Pope Urban VI. arranged for the foundation of the University of Cologne in 1388. It was one of the first universities in Germany next to the University of Prague (1348) and Heidelberg (1386) and also one of the largest until 1794. In 1808 the university was closed under Napoleon and his French revolutionaries.

Ophthalmologist and surgeon Georg Schmitz founded the first eye clinic of Cologne in 1864. He was part of the "Ophthalmological Association" ("Ophthalmologische Gesellschaft") that was founded in 1857 and then renamed to "German Association of Ophthalmology" ("Deutsche Ophthalmologische Gesellschaft") in 1920. Ten years later the "Cologne Eye Clinic for the Poor" ("Kölner Augenheilstalt für Arme") was established by Julius Samelsohn and later enlarged twice due to high demand of the services provided there. In 1904 it was integrated into the "Cologne Academy for Practical Medicine" ("Cölner Akademie für Praktische Medizin").

After Germany was proclaimed as a republic in 1918 and new institutions were founded, the city council agreed with Mayor Konrad Adenauer that a university should be established. Shortly after, on 12th April 1919 it was opened solemnly.

Up until 1927, August Pröbsting held the professorial chair and the position of hospital director. His successor and secretary of the DOG was Ernst Engelking. Wilhelm Meisner succeeded him and supported retinal surgery. In 1938 Karl vom Hofe was appointed. He worked on retinal surgery, glaucoma, and sensory physiology among other things and became dean of the Medical Faculty twice while directing the Hospital until 1966.

The university eye clinic in Cologne was rebuilt in the 1950s after the war and starting in the 1970s it prospered into an internationally renowned ophthalmological center. Until 1986 Hellmut Neubauer (Chair I) and Klaus Heimann (Chair II), who directed the new center for vitreoretinal surgery, headed the clinic. Bernd Kirchhof succeeded them in 2001. Walter Rüssman (Chair III) was the head of strabismology and neuro-ophthalmology. Günter K. Krieglstein later created another subdiscipline: glaucoma as a focus in research and patient care. He was the executive director until 2010. Claus Cursiefen was appointed this position in 2011 and ever since then Cologne has also become a central place for diseases of the cornea. More than 10% of all corneal transplant-surgeries in Germany take place here and it has been the largest nation-wide medical center for transplantations for years now.

Further information on our website:

<https://augenklinik.uk-koeln.de/informationen/aktuelles/detailansicht/100-jahre-universitaere-augenheilkunde-koeln-1/>

Information for employees:

Awards and Prizes in 2019:

- › **Prof. Dr. med. Claus Cursiefen**, Médaille d'Or Paul Chibret
- › **Prof. Dr. med. Claus Cursiefen, Prof. Dr. med. Thomas Dietlein, Prof. Dr. med. Björn Bachmann, Prof. Dr. Antje Neugebauer, Dr. med. Julia Fricke**, Awarded "TOP Mediziner 2019" by the editors of FOCUS Gesundheit
- › **PD Dr. med. Friederike Schaub**, Julius-Springer Award for ophthalmology
- › **PD Dr. med. Mario Matthaei**, Helmholtz Research Award by the German Association of Ophthalmology (DOG)
- › **Dr. med. Alexander Händel**, Arvo Travel Grant
- › **Dr. med. Caroline Gietzelt**, glaucoma research award in the section DOG-glaucoma
- › **Dr. med. Alexander Rokohl**, Ph.D. award by the German Association of Ophthalmology (DOG)
- › **Dr. med. Alexander Rokohl**, Sicca sponsorship prize for dry eye and surface diseases by the German Professional Association of Ophthalmologists (BVA)
- › **PD Dr. med. Sebastian Siebelmann**, Master of Health Business Administration (MHBA)
- › **PD Dr. med. Sebastian Siebelmann**, Travel Grant Award ESCRS
- › **PD Dr. med. Sebastian Siebelmann**, Observership Award ESCRS
- › **PD Dr. med. Sebastian Siebelmann**, Young Physician Leader 2019
- › **Dr. rer. nat. Thomas Clahsen**, Best-Abstract-Award der Translationalen Sitzung: Hornhaut und Limbus
- › **Dr. rer. nat. Thomas Clahsen**, DOG-Patent-Preis
- › **Dr. rer. nat. Uta Gehlsen**, Best-Abstract-Award in the "Highlights in Translational Science Session": Ocular Surface Disease
- › **Ph.D. Yanhong Hou**, Science Award by the Eye Foundation (Stiftung Auge)
- › **Daniela Heß**, Sicca Sponsorship Award for Dry Eye and Ocular Surface Diseases by the German Professional Association of Ophthalmologists (BVA)

FEBO, FICO, ICO Candidates in 2019:

- › **Dr. med. Alexander Händel**, Participation in ICO exam in the category "Optics and Refraction"
- › **Dr. med. Caroline Gietzelt**, Participation in ICO exam in the category "Optics and Refraction"
- › **Dr. med. Anna Lentzsch**, Participation in ICO exam in the category "Advance"
- › **Volkan Tahmaz, Dr. Joel Mor**, Participation in ICO exam in the category „Clinical Science“
- › **Dr. med. Rosa Khatib, Dr. med. Carolin Le Blanc, Dr. med. Sebastian Siebelmann, Dr. med. Xavier Subiras**, Participation in the European specialist examination "Fellow of the European Board of Ophthalmology" (FEBO)

Specialist Qualifications in 2019:

- › **Dr. med. Anna Lentzsch**
- › **PD Dr. med. Sebastian Siebelmann**
- › **Dr. med. Rosa Khatib**
- › **Dr. med. Xavier Subiras**

New Employees:

New additions to our team of interns (assistant physicians) in the year 2019 were Anne Fassin, Heide Heinen, Jan Niklas Lüke, Verena Schöneberger, Christel Spital, Sarah Zwingelberg, and Florian Schelder.

Unfortunately, we had to say goodbye to Dr. med. Xavier Subiras, Dr. med. Georgia Avgitidou, Dr. Rosa Khatib and PD Dr. Tina Schick.

Habilitations since 2012

Person	Year	Title of Habilitation Thesis
PD. Dr. med. Sebastian Siebelmann	2019	Non-invasive imaging for optimization ophthlmo-surgical procedures on the anterior segment
PD Dr. med. Philip Enders, FEBO, FICO	2019	Influence of the size of the optic nerve on the diagnostic accuracy of optical coherence tomography of the optic papilla in glaucoma diagnostics
PD Dr. med. Dr. nat. med. Deniz, Hos, FEBO	2019	The role of the lymphatic system in inflammatory corneal diseases
PD Dr. med. Alexandra Lappa	2018	Surgical therapy of exudative age-related macular degeneration by replacing the submacular pigment epithelium
PD Dr. med. Lebriz Altay	2018	Risk factors for the development and progression of age-related macular degeneration
PD Dr. med. Friederike Schaub, FEBO	2018	Descemet Membrane Endothelial Keratoplasty
PD Dr. med. Mario Matthaei, FEBO	2017	Molecular studies on the pathogenesis of Fuchs endothelial dystrophy
PD Dr. med. Franziska Bucher, FEBO	2017	Changes in the sub-basal nerve plexus of the cornea in ocular and systemic diseases
PD Dr. rer. nat. Marcus Karlstetter	2017	(Subject: Molecular Medicine) Microglial cells as a therapeutic target for degenerative retinal diseases
PD Dr. rer. nat. Felix Bock	2016	The role of lymphangiogenesis in rejection after corneal transplantation
PD Dr. med. Robert Hörster	2016	Experimental and clinical aspects of ocular fibrovascular scarification
PD Dr. med. Albert Caramoy	2015	Age-related macular degeneration
PD Dr. med. Tina Schick, FEBO	2015	Risk factors and prognostic factors in age-related macular degeneration
PD Dr. med. Rafael S. Grajewski	2014	Immunoregulatory mechanisms in murine experimental autoimmune uveitis (EAU)
Prof. Dr. med. André Rosentreter	2014	Innovative concepts in glaucoma surgery
PD Dr. med. Manuel Hermann, FEBO	2013	Diagnostics and new principles in the treatment of glaucoma, age-related macular degeneration and other retinal diseases
Univ.-Prof. Dr. med. Ludwig M. Heindl	2012	The role of tumor-associated lymphangiogenesis in malignant surface tumors
Prof. Dr. med. Philipp S. Mütther	2012	Pathologic ocular neovascularization

Teaching and Training

Teaching:

Human medicine

- › Direction and exam for “Fachblock Augenheilkunde”: lecture, seminar, and practical training for 192 students
- › Direction and exam for “Kompetenzfeld Sehstörungen” (in cooperation with the institute for physiology)
- › Special examination: “Praktikum Augenuntersuchungen” for 192 students per semester
- › Direction of “Wahlpflichtseminar Augenheilkunde”
- › Direction of “Schlüsselqualifikationskurs: From bench to bedside – How to develop a translational research project”
- › Involvement in “Kompetenzfeld Schwindel”
- › Involvement in the course offer “Research Track”, lecture series
- › Involvement in preparation course in anatomy – orbita

B. Sc. Neuroscience:

- › Involvement in a lecture series

M. Sc. Neuroscience:

- › Direction of the module “Retinal Immunology and Gene Regulation”, lecture, seminar, practical training, 8 students

Apprenticeship:

- › School of Orthoptics, integrated into the eye clinic: Currently, 12 students are being trained to become certified orthoptists in the course of a 3-year-program.

Training:

- › Examination Center of the International Council of Ophthalmology, ICO
- › Involvement in the BVA-specialist revision

Events in 2020/2021 (details at www.augenklinik.uk-koeln.de)

- › Glaucoma symposium in the VHS-forum of the Rautenstrauch-Joest-Museum 11 January 2020
- › 32nd anniversary of the Department of Ophthalmology in the “Maternushaus” 15 February 2020
- › 20th anniversary of the cornea bank at the University Hospital of 05 September 2020
- › Update Strabismology in the auditorium of the Department of Ophthalmology 07 November 2020

Details at:

www.augenklinik.uk-koeln.de

Contact Information

- › 24h emergency outpatient department for ophthalmology
- › Department of Ophthalmology, building 34
- › Telephone Service Center +49 221 478-4313 (outpatient appointments)
- › Fax +49 221 478-3186

All contact details at:

<https://augenklinik.uk-koeln.de/informationen/ansprechpartner-auf-einen-blick/>

Directions to the University Hospital

Bus: KVB line 146, stop "Leiblplatz"

Tram: KVB line 9, stop "Lindenburg (Universitätskliniken)"

Tram: KVB line 13, stop "Gleueler Str. / Gürtel"

Car: Drive onto the hospital premises: across from the address Gleueler Str. 117, turn left after the gate, straight ahead for 250m. Alternatively, there is direct access to the clinic coming from the north by way of Joseph-Stelzmann-Straße. There are very limited parking options here that require a fee (30 minutes free). The use of underground parking and public transportation is highly recommended during the day.

Underground parking:

(About 10-minute walk from here to the clinic)

Caution – 2m maximum clearance height

Access through cardiology center: across from Kerpener Straße 85

Access through ward building: across from Kerpener Straße 103

You can find further information at:

<http://augenklinik.uk-koeln.de>

Imprint

Responsible officials:

Frau C. Nolden- Strack (Clinic Consultant, Process- and Quality Management)

Prof. Dr. C. Cursiefen (Director of the Department of Ophthalmology)

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