

ANNUAL REPORT

2024

«SHAPING THE FUTURE OF
PEDIATRIC MEDICINE WITH
ROUTINE CLINICAL DATA»



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To everyone who made the CCHA's launch possible

Executive Summary

The CCHA looks back on its **first full year of operations in 2024**. The focus was on the development of internal structures, the official opening of the centre and the first data projects at the Children's Hospital of Central Switzerland.

With the **official opening in July 2024** and a widely distributed **media release**, the CCHA became known to a broad public. In parallel, the new logo, the CI/CD and the bilingual website were created – a LUKS-independent, modern visual identity that makes the CCHA visible as an **independent centre**.

In its first year, the CCHA handled **27 data requests** and converted 17 of them into projects. Collaboration ranged from internal analyses to national and international research partnerships. Through the newly established **Skills Hub**, first training sessions strengthened data literacy at the Children's Hospital in a targeted way.

The six fields of action at a glance

1 • Data Services

27 requests, 17 converted into projects — conversion rate 63 %.

2 • Skills Hub

3 training sessions, 21 participants, NPS 55 in the first evaluation.

3 • Engagement

Open day, official opening and Roche Turmgespräch.

4 • Team

Four-person founding team, first doctoral student from November.

5 • Governance

Steering Committee and Advisory Board with seven members established.

6 • Communications

New branding, website in development, LinkedIn with 235 followers.

Key Facts 2024

A year in **figures, projects and milestones**: In 2024 the CCHA built up its structures, established itself at the Children's Hospital of Central Switzerland and laid the foundation for data-driven pediatric medicine.

Seven milestones at a glance

MAY

First Steering Committee

The Steering Committee governing the CCHA meets for the first time.

APRIL

Open day

More than 30 interested professionals from the Kinderspital Zentralschweiz get to know the CCHA. Services and the data request form go live.

JUNE

First training session & congress

First Skills Hub training session with 16 people — Net Promoter Score 55. Oral presentation on the CCHA at the national pädiatrie schweiz congress.

JULY

Official opening

Widely distributed media release in collaboration with the Stiftung Zukunft Kinderspital Zentralschweiz, report in the Luzerner Zeitung. The LinkedIn page launches in the same month.

SEPTEMBER

Consultation hours & Advisory Board

Introduction of the SlicerDicer consultation hours. On 16 September the first Advisory Board meeting takes place, the Steering Committee meets for the second time.

NOVEMBER

Reinforcement & appearances

Mirjam Kissling supports the team as an MD doctoral student in paediatrics. Keynote by Nicole Ritz at the Roche Turmgespräch (27.11.) and involvement in organising the Grand Round by Prof. John Rogers.

DECEMBER

First team outing

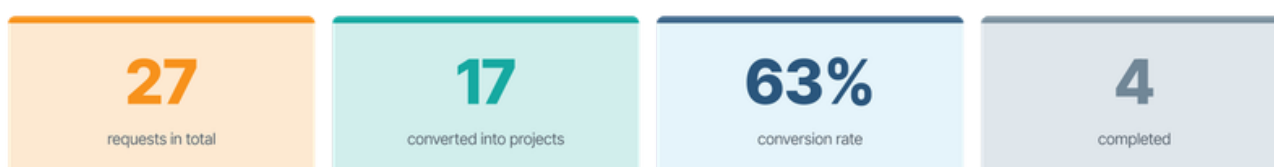
Visit to the HSLU Immersive Realities Center in Rotkreuz — new input for upcoming projects and collaborations.

Data Services

The following information refers to the period from 1 January 2024 to 3 January 2025.

Overview of requests

In 2024 the CCHA received a total of **27 data requests** (requests) and **converted 17 of them into projects**. This corresponds to a **conversion rate of 63%**. The higher this rate, the more clearly the CCHA's criteria for selecting projects were communicated externally and the more efficiently requests can be processed.



The CCHA distinguishes between analytics and research requests: **Analytics requests** are smaller-scale data analyses, often for internal purposes. **Research requests** comprise national and international research projects, larger quality projects of the Children's Hospital of Central Switzerland as well as support for master's and doctoral theses, often with ethics approval and a study protocol. In total, **14 analytics and 13 research requests** have been received so far. At the end of the year, nine research projects were in progress and one completed. The CCHA is currently working on four analytics projects, three have already been finalised.

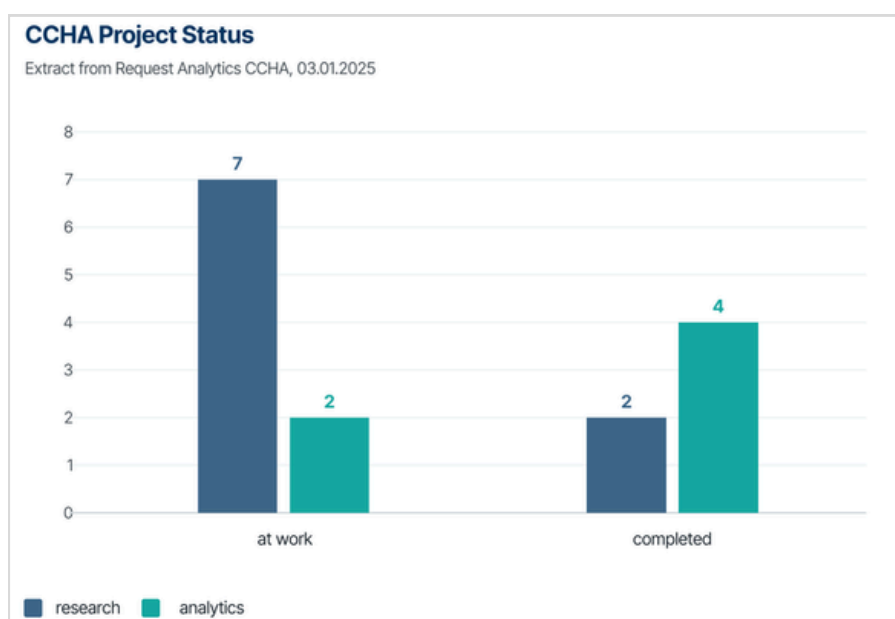


Figure 1: Project status by request type, 3 January 2025

Requesting organisations

The CCHA works with a wide range of **specialist areas and professional groups**. So far, requests have come from administration, the medical and nursing areas as well as therapies. The largest share of requests comes from the Children's hospital of Central Switzerland itself, currently with nine projects.

Various projects are also carried out with **external partner organisations or clients**. These include not only **renowned national institutions** such as ETH Zurich or the UKBB, but also **international universities** such as the University of Queensland or the conect4children initiative, which is active worldwide.

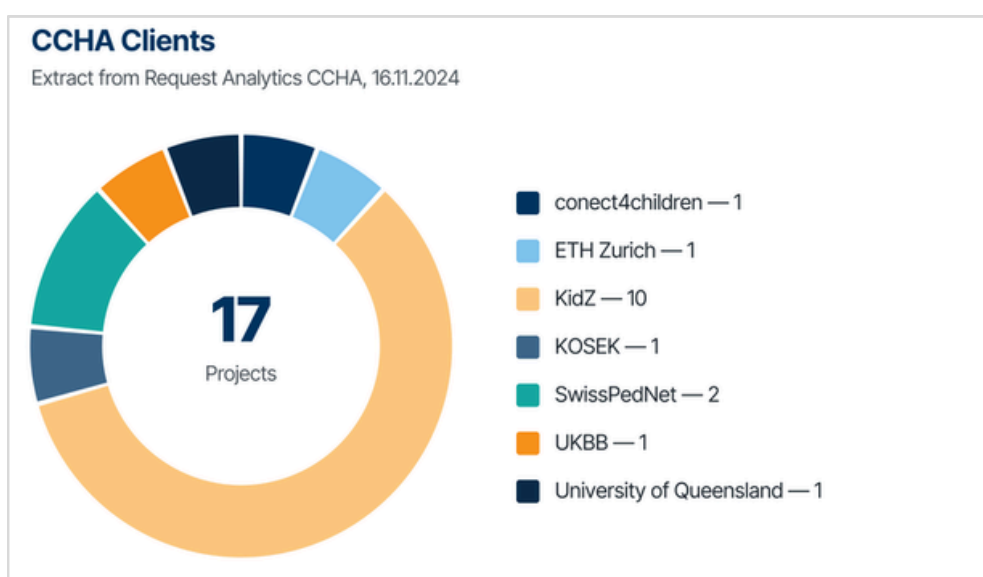


Figure 2: Projects by client, 16 November 2024

Thematic focus of the projects

The projects range from the diagnosis of tuberculosis in children and the question of anticoagulation after cast treatment to innovative therapeutic approaches such as semi-demand feeding in neonatology. As part of a **collaboration with ETH Zurich**, the CCHA examined whether an AI-based model for analysing appendicitis can also be validated for the dataset at the Children's Hospital of Central Switzerland. The CCHA also works closely with the newly founded **Centre for Rare Diseases** (headed by Prof. Johannes Roth) and is currently supporting the certification of the centre for intestinal diseases in children.

The CCHA will publish a **more detailed report** on the content of some of the projects already completed on its website in 2025 and will also make it available to the foundation.

Skills Hub

The Skills Hub is the CCHA's **training platform**. In the Skills Hub, the CCHA offers **training sessions** and **consultation hours** as well as, in future, **public events** on data analysis in healthcare.

Training sessions at the children's hospital

In 2024 the CCHA was already able to offer **three training sessions**, tailored to professionals at the Children's hospital.

The **recordings of the content** are then made available online by the CCHA to all employees of the Children's Hospital of Central Switzerland.



Figure 3: First successful CCHA Skills Hub training session with 16 participants

A total of **21 people** have already taken part in the CCHA's course offerings, and five more signed up for the **expert course** in December 2024. Professionals from different disciplines and areas are represented, including doctors, nurses, physiotherapists and people from administration. The courses provide training on the **self-service tools** in **LUKiS** so that professionals can carry out data analyses in their own areas independently.

3

training sessions 2024

21

participants

55

NPS first evaluation

Each course is **evaluated** afterwards by the CCHA in order to continuously improve.

Course evaluation – Net Promoter Score

Both courses held were rated very positively. For the first training session, the CCHA received a **Net Promoter Score (NPS)** of **55**, which corresponds to a very good value. The NPS is a validated evaluation score. Values above 50 are considered excellent.



Figure 4: NPS from the evaluation of the first training session at the CCHA, Microsoft Forms survey of 27 June 2024

Consultation hours & data literacy

Since their introduction in September, the SlicerDicer consultation hours have already been attended three times. Participants were able to discuss their own questions and problems directly with the data analysts of the CCHA. The offering will be continued exclusively **virtually** in 2025.

To make the **effect of the Skills Hub offerings on data literacy** at the Children's hospital measurable, in July 2024 the CCHA sent out a **survey** on the self-service tool **SlicerDicer**, which is available to all employees of the Children's Hospital of Central Switzerland, in order to ask about their level of experience with the tool.

Of the **183 participants** in total, 145 stated that they did not know the SlicerDicer tool. Of the remainder, 39% still stated that they had never used it. The CCHA aims to steadily improve this figure through its offerings and will send out another survey in January 2025 to make the effect of the training sessions visible. This survey thus forms the baseline for the coming years.

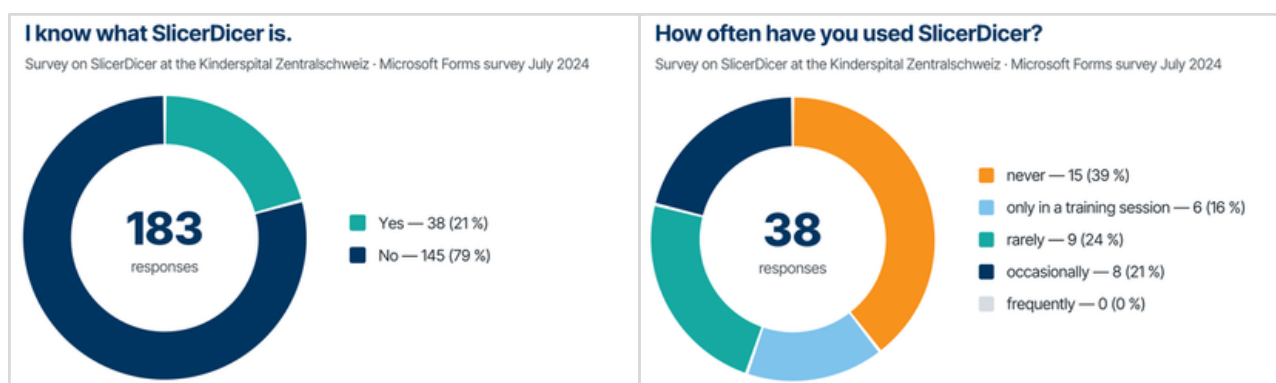


Figure 5: Analyses from the survey on SlicerDicer at the Children's Hospital of Central Switzerland, Microsoft Forms survey July 2024

Engagement

In 2024 the CCHA successfully positioned itself and made its services visible externally – from the first public event to appearances on the national stage.

30+

professionals at the open day

July

official opening with media release

27.11.

keynote at the Roche Turmgespräch

Open day and official opening

The starting point was the **open day** in April 2024, attended by over 30 interested professionals from the Children's Hospital of Central Switzerland.

In July 2024 the **official opening of the CCHA** followed with a widely distributed **media release** in cooperation with the **Stiftung Zukunft Kinderspital Zentralschweiz**. This was accompanied by a newspaper article in the **Luzerner Zeitung** and on other online portals. The positive response to the newspaper reports and the media release further encouraged the CCHA in its work.

Kinderspital Zentralschweiz: Datenanalyse soll Behandlungen verbessern

Das Center for Child Health Analytics des KidZ erhält Unterstützung von der Stiftung Zukunft Kinderspital Zentralschweiz.

ab. 19. Juni 2024 um 07:25

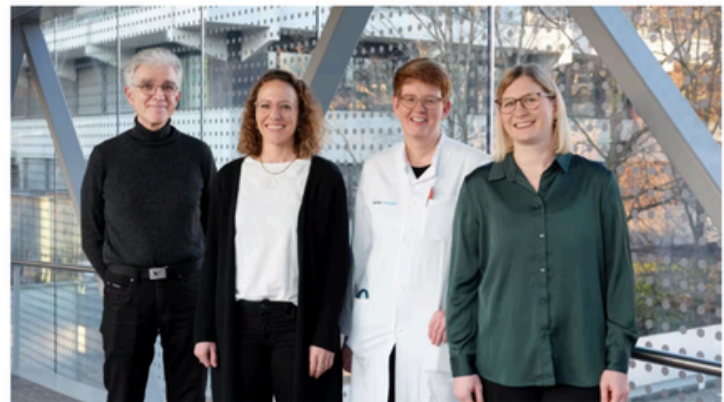


Figure 6: [Medinside article](#), from left to right – Marcus Werners (Data Analyst), Anna Schöni (Data Analyst), Nicole Ritz (Chief Physician KidZ & Head of the CCHA), Nathalie Gasser (Coordinator)

Roche Turmgespräch and Grand Round

On 27 November 2024 the CCHA had the opportunity to present itself to a broad audience at the **Roche Turmgespräch**. Nicole Ritz, Director of the CCHA, gave a **keynote input** on the use of health data in Switzerland.



Figure 7: Speakers at the Roche Turmgespräch of 27 November 2024

Further highlights in the area of engagement were the presentation of an «**oral presentation**» about the CCHA at the **national pädiatrie schweiz congress** in June 2024, the presentation of the centre at various **internal and external** meetings and committees as well as the **involvement in organising the Grand Round** in November 2024 by Prof. John Rogers, a pioneer in sensor development.

TURM
Gespräche

**Gesundheitsdaten
 – wer profitiert wirklich?**

Figure 8: Topic of the 14th Turmgespräch at the new Roche Research Centre in Basel

Team

In January 2024 the CCHA team consisted of **four people** and grew during the year with the **first MD doctoral student**.

The **founding team** consists of Nicole Ritz (Director), Nathalie Gasser (Center Manager) as well as Marcus Werners and Anna Schöni (Data Analysts).

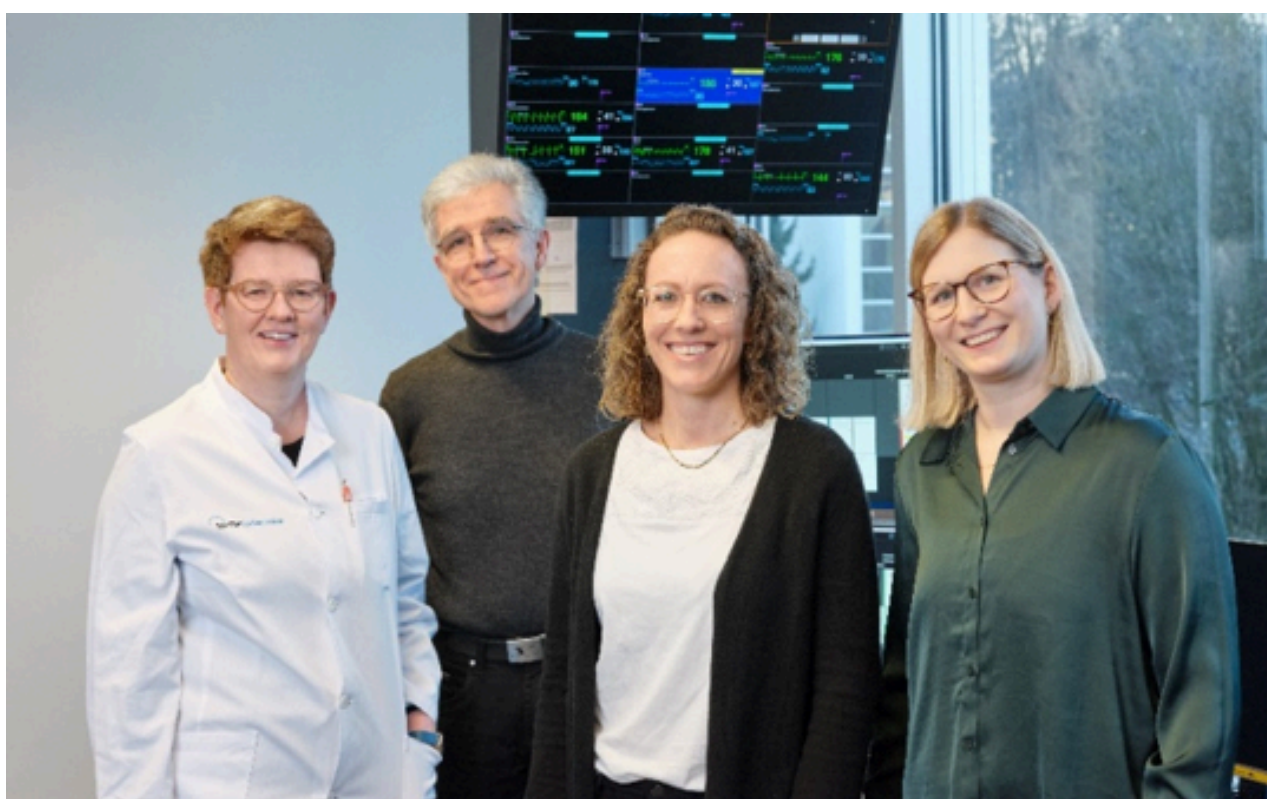


Figure 9: The CCHA team, from left to right – Nicole Ritz (Director), Marcus Werners (Data Analyst), Anna Schöni (Data Analyst), Nathalie Gasser (Center Manager)



Figure 10: Mirjam Kissling, MD doctoral student in Paediatrics at the CCHA

Since November 2024 Mirjam Kissling has supported the team as an **MD doctoral student** in paediatrics.

Her **doctoral project** deals with the scientific evaluation of the implementation of criteria-led discharge (KIBA) and is supervised by Anna Schöni and Nicole Ritz.

First team event

On 10 December 2024 the first team outing took place. The visit to the **Immersive Realities Center of the HSLU** on the Suurstoffi site in Rotkreuz was inspiring and gave the team new input for upcoming projects and collaborations. The subsequent **dinner** at Izakaia Nozomi provided space for informal exchange.

SINCE JANUARY 2024

Nicole Ritz

Director of the CCHA.

SINCE JANUARY 2024

Nathalie Gasser

Center Manager.

SINCE JANUARY 2024

Marcus Werners

Data Analyst.

SINCE JANUARY 2024

Anna Schöni

Data Analyst.

SINCE NOVEMBER 2024

Mirjam Kissling

MD doctoral student, Paediatrics. Supports the implementation of criteria-led discharge (KIBA), supervised by Anna Schöni and Nicole Ritz.

Governance

The CCHA is flanked by **two bodies**: the Steering Committee, which governs the CCHA, and the Advisory Board in an advisory function.

The **Steering Committee** consisted of the following three people in 2024: Prof. Dr. med. Nicole Ritz (Director of the CCHA), Prof. Dr. med. Martin Stocker (representing the KidZ clinic management) and Ass.-Prof. Dr. med. Nora Fritschi (Assistant Professor in a bridge professorship at the University of Lucerne).



Figure 11: The CCHA Steering Committee 2024

In the **Advisory Board** the CCHA had seven experts from different areas in 2024 who advise the CCHA strategically.

All members of the internationally composed Advisory Board support the activities of the CCHA with great expertise and motivation and provided valuable input as well as strategic direction.

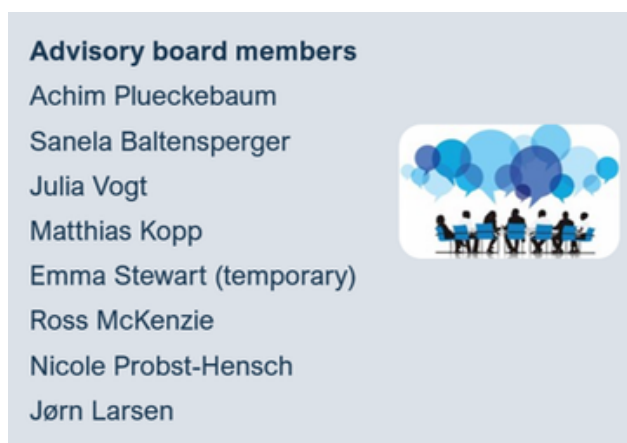


Figure 12: Overview of the people on the Advisory Board

In 2024 the **first meetings of the two bodies** of the CCHA took place. The Steering Committee met in May and September 2024. The Advisory Board meeting took place on 16 September 2024 and is repeated once a year in autumn. Topics discussed included the further development of the services of the CCHA, national and international networking as well as the challenges regarding data protection and regulatory frameworks for research projects using routine data. From this, **various measures** were derived and implemented and **further meetings with experts** were agreed.

Communication

Through strong **external communications** the CCHA makes its projects visible and enables interested people to get in touch. In 2024 the focus was on the **development of branding and website** as well as the **launch of the LinkedIn page**.

Branding and website

For the conception, programming and technical implementation of the CCHA website as well as for the development of the entire CCHA branding (logo & CI/CD), the **local agency Blickwinkel** and the **partner company weloveyou** were selected after reviewing several offers. They also support the CCHA with further communication products.

In close exchange with the CCHA, a LUKS-independent, modern visual identity was created that makes the CCHA visible as an **independent centre** and presents its services to a broad public as well as to potential further supporters. The **bilingual website** (German/English) was being finalised at the end of 2024 and will go online at the beginning of 2025.

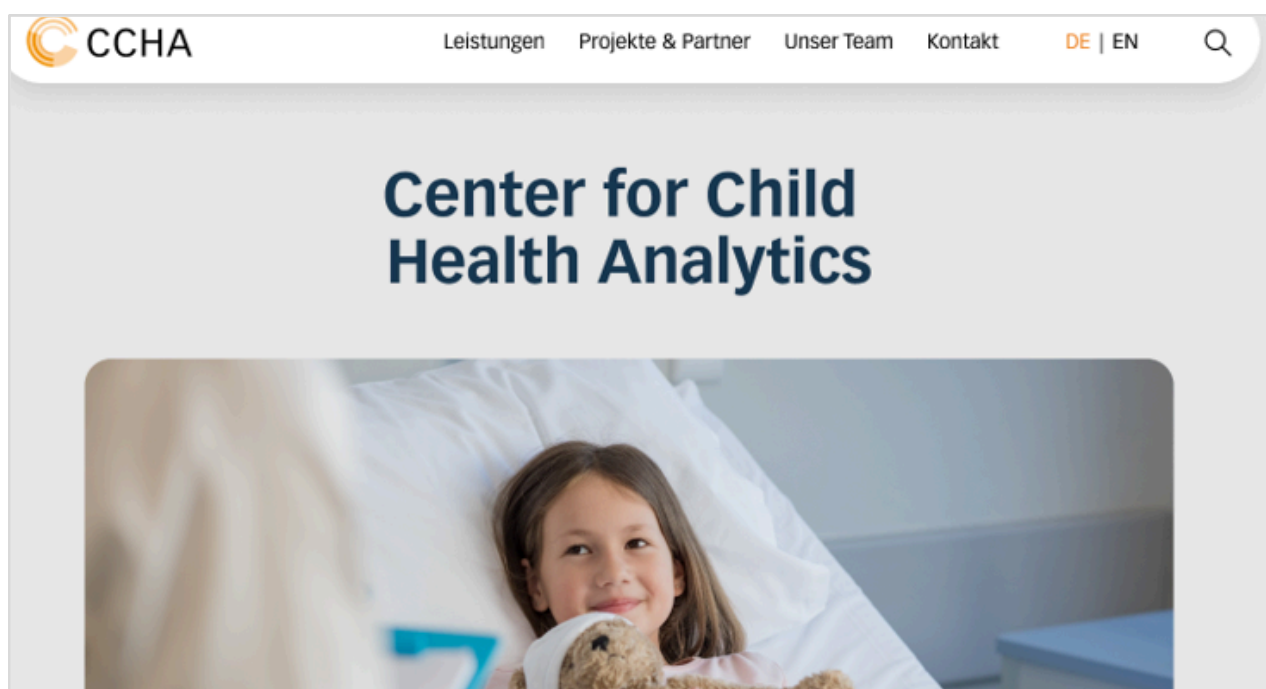
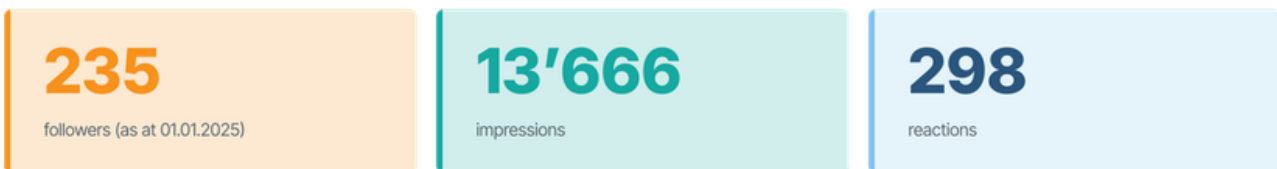


Figure 13: Preview of the CCHA website – landing page (layout draft, Agentur Blickwinkel)

LinkedIn

Since July 2024 the CCHA has operated its **own LinkedIn page**. The CCHA regularly posts content on current projects, news from the centre and interesting input in the field of data analysis in healthcare. At the turn of the year on 1 January 2025 it had **235 followers**. The LinkedIn page has already been displayed **13'666 times** (impressions) and received **298 reactions**. Comments and shared posts were also added.



All followers were gained **organically**. The CCHA has not placed any advertising on LinkedIn and has not used any paid posts to increase the reach or visibility of the content.

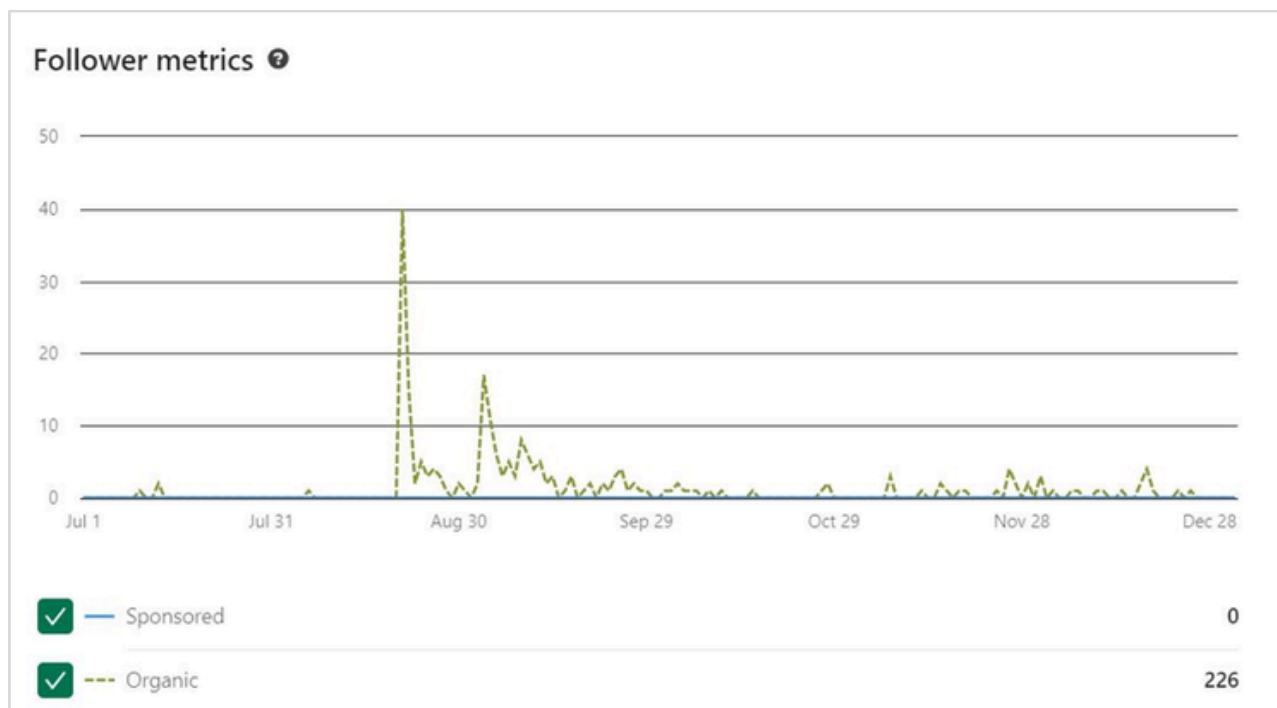


Figure 14: LinkedIn Analytics follower metrics, 8 January 2025

The followers of the CCHA profile come from **different industries and sectors**. The majority (37%) currently work in a hospital environment or the health sector. The page is also followed by people from education, research and the pharmaceutical industry. In the long term, LinkedIn should also be a platform that **strengthens the CCHA's network** and on which new project ideas or collaborations can develop.

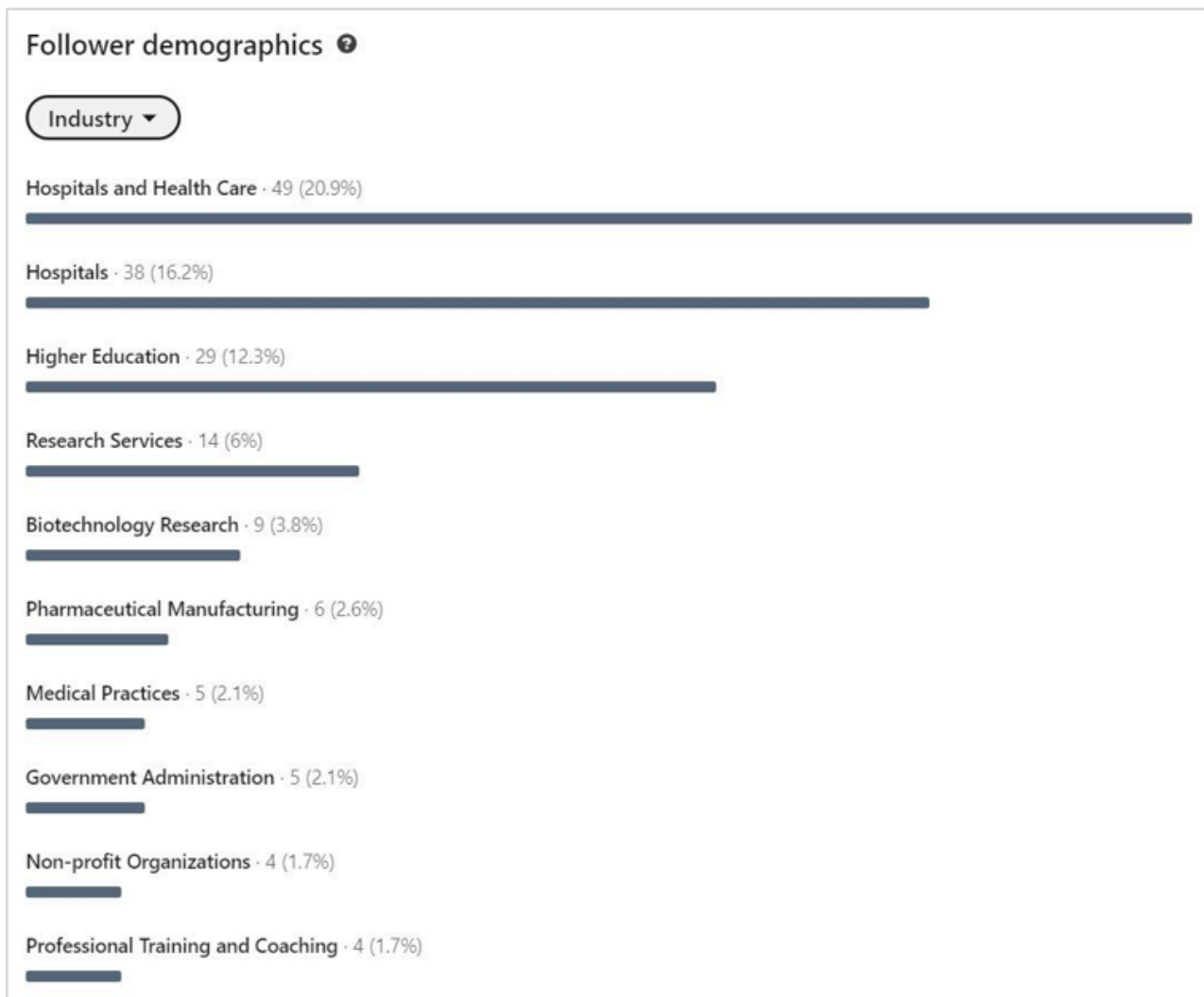


Figure 15: LinkedIn Analytics follower demographics

Acknowledgements

Special thanks go to the **Stiftung Zukunft Kinderspital Zentralschweiz** and the **Lucerne Cantonal Hospital** for their financial, structural and moral support. Without their commitment, building up the CCHA in its first year of operation would not have been possible.

We would also like to thank all **those submitting data requests**, who challenge us with their questions and inspire us with their innovative drive. Last but not least, our thanks go to **the entire CCHA team**: with commitment, expertise and team spirit it has laid the foundation for the years to come.

Thank you.