

EudraCT No.: 2014-001991-76
Identification (Vorlage-Nr.) CA: 4040246
Identification Ethics Committee: AFmu-554/2014

INTENT-Study



FINAL STUDY REPORT ACCORDING TO § 42b AMG

– Results have not yet been published in a peer-reviewed journal. –

Study Title:

Initial treatment of idiopathic nephrotic syndrome in children with mycophenolate mofetil vs. prednisone: A randomized, controlled, multicenter study

Acronym: INTENT Study

This is a multicenter clinical trial designed to show that MMF is not inferior to standard high-dose prednisone therapy in the initial treatment of idiopathic steroid-sensitive nephrotic syndrome (SSNS) in children in terms of maintenance of initial remission and subsequent relapse rate.

Version Number/ Date:	Final report Version 1.0 / 31.01.2024
EudraCT-Number:	2014-001991-76
Date of Approval by 1st CA:	10.03.2015
Identification (template no.) CA:	4040246
Identification Ethics Committee:	AFmu-554/2014
Protocol version:	Version 6.0 /20181205
Investigational drugs:	Mycophenolate mofetil
Reference drug:	Prednisone
Indication:	Idiopathic nephrotic syndrome in children
Phase of study:	Phase III
Registration number	DRKS 00006547

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Sponsor:	Principal Investigator/Coordinating Investigator (Leiter der klinischen Prüfung*):
Ruprecht-Karls-University Heidelberg, Medical Faculty represented by Universitätsklinikum Heidelberg and its Commercial Director Katrin Erk Im Neuenheimer Feld 672 69120 Heidelberg Phone: 06221 56 7000 Fax: 06221 56 4888 E-Mail: Kaufmaennische-Direktion@med.uni-heidelberg.de	University Hospital Heidelberg Department of Pediatrics I, University Children's Hospital Heidelberg Prof. Dr. med. Burkhard Tönshoff Im Neuenheimer Feld 430 69120 Heidelberg Phone 06221 56 8401 Fax 06221 56 4203 E-Mail: burkhard.toenshoff@med.uni-heidelberg.de

* According to § 40 German Drug Law (AMG)

Clinical Project Management	Biometrics
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Study centers	
See Appendix 1	
Protocol versions	
Study_protocol_INTENT_V2_2015_02_12	(Votum EC: 2015_03_18)
Study_protocol_INTENT_V3_2015_03_11	(Votum EC: 2015_05_06)
Study_protocol_INTENT_V4_2015_03_25	(Votum EC: 2015_05_06)
Study_protocol_INTENT_V5_2016_04_26	(Votum EC: 2016_06_01)
Study_protocol_INTENT_V6_2018_12_05	(Votum EC: 2019_01_08)
Addendum_Study_protocol_INTENT_V6_2018_12_05	(Votum EC: 2020_12_23)

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Publication (reference)
Ehren R, Benz MR, Doetsch J, Fichtner A, Gellermann J, Haffner D, Höcker B, Hoyer PF, Kästner B, Kemper MJ, Konrad M, Luntz S, Querfeld U, Sander A, Toenshoff B, Weber LT; Gesellschaft für Pädiatrische Nephrologie (GPN). Initial treatment of steroid-sensitive idiopathic nephrotic syndrome in children with mycophenolate mofetil versus prednisone: protocol for a randomised, controlled, multicentre trial (INTENT study). <i>BMJ Open</i> , 2018. 8(10): p. e024882.
Study period
Date of first enrolment: 12.10.2015 Date of last enrolment: 23.04.2021 Date of early termination: 27.04.2021 Date of last completed: 27.07.2023 Early termination of the study after inclusion of 272 patients due to the recommendation of the data safety monitoring board, which had commissioned a futility analysis.
Duration of study for each patient
The patient is recruited individually after achieving remission in the manifestation of nephrotic syndrome and randomized into the treatment groups. The patient is treated until total initial treatment duration of 12 weeks is reached (induction of remission with prednisone + maintenance of remission with prednisone (control) or with MMF (experimental intervention)). After the end of the treatment phase, a follow-up period of 24 months follows.
Indication
First episode of steroid-sensitive nephrotic syndrome (SSNS) in children in remission (N04.9) Nephrotic syndrome: MedDRA term 10029164 (version: 16.2, LLT)
Phase of development
Phase III
Objectives
To demonstrate that mycophenolate mofetil as initial treatment is not inferior to standard treatment with prednisone related to relapse rate within 24 months Primary efficacy endpoint: Occurrence of treated relapse within 24 months after end of initial treatment Key secondary endpoint(s): <ul style="list-style-type: none">• Course of the disease: Time from remission to first treated relapse; number of relapses; mean relapse rate per patient and year; incidence of frequent relapsers• Prednisone-associated toxicity: Cumulative prednisone dose (mg/m² BSA); body mass index (standard deviation score); striae; hypertrichosis; acne; arterial hypertension; disturbances of carbohydrate and lipid metabolism; growth failure; cataract; glaucoma; psychological disturbances• MMF-associated toxicity: diarrhea; blood cell count disturbances, infections
Investigational medical product
INN: Mycophenolate mofetil (MMF) ATC-code: L04AA06 MMF is administered in liquid form (CellCept suspension, Roche AG). Dosing: Mycophenolate mofetil (MMF) 1200 mg/m ² body surface area (BSA) per day, until a

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total initial treatment duration of 12 weeks is reached (induction of remission with prednisone + maintenance of remission with MMF (intervention)).

MMF is administered in conjunction with alternate day prednisone 40 mg/m² BSA for the first 2 weeks.

Reference drug

INN: Prednisone

ATC-code: H02AB07

Prednisone is administered as tablet.

Dosing: Continuing the standard protocol for children with first episode of SSNS according to GPN guidelines: 60 mg prednisone/m² BSA per day for 6 weeks followed by alternate day prednisone 40 mg/m² BSA for another 6 weeks.

Study design

Prospective, randomized, multicenter, controlled, open, parallel group study

Study population

Inclusion Criteria

- First episode of steroid-sensitive nephrotic syndrome (SSNS)
- In remission induced by daily glucocorticoids within 28 days
- Male and female children aged ≥ 1 year and ≤ 10 years at beginning of study (typical age range of patients with SSNS)
- Ability of the persons having care and custody of the child to understand character and individual consequences of clinical study
- Written informed consent of the persons having care and custody of the child.

Exclusion Criteria

- Secondary nephrotic syndrome
- estimated glomerular filtration rate (eGFR) < 90 ml/min $\times 1.73$ m² BSA
- Ongoing treatment with systematically administered glucocorticoids or other immunosuppressive drugs at time of first episode of nephrotic syndrome
- Hemoglobin concentration of ≤ 9 g/dL
- Leucocyte count of $\leq 2.500/\mu\text{l}$
- Severe chronic gastrointestinal disease
- History of hypersensitivity to mycophenolate mofetil or to any drug with similar chemical structure or to any excipient present in the pharmaceutical form of suspension of mycophenolate mofetil (CellCept suspension)
- Refusal of subject (please see also chapter 10.5)
- Participation in other clinical studies or observation period of competing studies, respectively

Sample size

Number of patients planned: 340

Number of patients analyzed: 272

Statistical analysis

The non-inferiority of the experimental group (MMF) versus the control group (Pred) was evaluated using the test according to Farrington and Manning with a one-sided significance level of 5%. The hypothesis to be assessed was as follows:

$H_0: p_{MMF} - p_{Predn} \geq \delta$ vs. $H_1: p_{MMF} - p_{Pred} < \delta$,
where $\delta=0.15$ denotes the non-inferiority margin and p_{MMF} and p_{Pred} the rate of the primary endpoint in the MMF and Pred group, respectively. Confirmatory analysis was done based on the modified intention to treat (mITT) and per-protocol (PP) set.

If no treated relapse in the FU phase was observed but follow-up data after a specific visit were missing (e.g. due to drop-out, withdrawal), the primary endpoint was imputed in the following way: a logistic regression model was used to estimate the probability of occurrence of a treated relapse after loss to FU/withdrawal. The model included treatment group, age (continuous), gender, center (grouped, number of recruited patients <10 vs. ≥ 10), relapse (treated or untreated) in treatment phase (y/n), and patient in PP set (y/n). As the time being relapse-free may influence the probability of occurrence of a treated relapse in the future, this information was taken into consideration by fitting separate models. Subsequently, occurrence of treated relapse in FU phase (y/n) were randomly drawn with relapse probability as calculated. The imputation was done for the mITT set. In the PP analysis, the values as imputed for the mITT set were used.

Secondary endpoints:

Descriptive p-values of the corresponding statistical tests comparing the treatment groups and associated 95% confidence intervals will be given.

Safety:

The total number of adverse events (AE) and serious adverse events (SAE) during the observation period (starting with first administration of the investigational medicinal product and ending with visit 4 [i.e. 6 months after the first treatment with standard therapy]) were reported by group. The rates of patients experiencing at least one AE or SAE during the observation period were calculated per group.

Statistical analyses were performed using the software package SAS version 9.4.

SUMMARY – CONCLUSIONS

Efficacy results

Three patients are not considered in the mITT set as they did not meet the criteria for being in remission at start of therapy (after randomization). The PP set consists of 101 patients in the MMF and 112 patients in the Prednisone group. For further information please compare Appendix 2.

In the mITT set, the primary endpoint occurred in 79,1% of patients in the MMF group and in 74.8% in the Pred group. The risk difference is 0.043 (p-value 0.019, corresponding 90% CI: -0.042; 0.127). In the PP set, the rates are 79.2% and 77.7%, respectively. The risk difference is 0.015 (p-value 0.008, corresponding 90% CI: -0.077;0.108). As both, the primary analysis in the mITT and the PP set show a significant p-value, non-inferiority is (statistically) proven. Corresponding to this, the upper limit of the 90% CI (5% one-sided) does not include the non-inferiority margin.



The disease status frequently relapsing nephrotic syndrome (FRNS) (≥ 4 relapses within 12 months or ≥ 2 relapses within 6 months after initial manifestation) was 45.2% in the Prednisone group and 47.2% in the MMF group, with missings in the Pred group being 9 patients and in the MMF group 7 patients (due to incomplete FU time).

Safety results

All patients received at least one dose of study medication and are therefore in the safety set. One patient randomized in the MMF group did not take MMF and withdrew consent directly after randomization. However, this patient received prednisone and is therefore analyzed in the Pred group (see Appendix 2).

(S)AEs observed in the control group as well as in the experimental group were in accordance with published data. Only preferred terms (PT) that have occurred at least 10 times in total are shown in the table below. (S)AEs can be categorized into more than one PT. The number and rate of patients in each group experiencing at least one AE or SAE of the respective type were reported. A total of 258 patients experienced at least one AE in the observation period (128 in the MMF group, 130 in the Pred group). While mild AEs happened almost equally frequently in both groups (127 patients in the MMF group, 127 in the Pred group), AEs with grade moderate or severe were more common in the Pred group (moderate: 47 patients in the MMF group, 79 patients in the Pred group, severe: 3 patients in the MMF group, 11 patients in the Pred group). SAEs occurred rarely overall (7 patients in the MMF group, 8 in the Pred group experienced at least one SAE) and were all resolved; SAEs were more frequent in the control group (7 SAEs in MMF group, 11 in Pred group).

Summary of adverse events

AE	MMF (N= 135)		Pred (N=137)		Total (N=272)	
Grade						
-mild	127	(94.1%)	127	(92.7%)	254	(93.4%)
-moderate	47	(34.8%)	79	(57.7%)	126	(46.3%)
-severe	3	(2.2%)	11	(8.0%)	14	(5.1%)
Causality to Prednisone						
-Definitely related	25	(18.5%)	99	(72.3%)	124	(45.6%)
-Possible	64	(47.4%)	101	(73.7%)	165	(60.7%)
-Unlikely	59	(43.7%)	61	(44.5%)	120	(44.1%)
-Not related	55	(40.7%)	60	(43.8%)	115	(42.3%)
Causality to MMF						
-Definitely related	5	(3.7%)	0	(0.0%)	5	(1.8%)
-Possible	72	(53.3%)	2	(1.5%)	74	(27.2%)
-Unlikely	77	(57.0%)	0	(0.0%)	77	(28.3%)

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-Not related	74	(54.8%)	0	(0.0%)	74	(27.2%)
PT						
- Abdominal pain	7	(5.2%)	3	(2.2%)	10	(3.7%)
- Abdominal pain upper	19	(14.1%)	11	(8.0%)	30	(11.0%)
- Aggression	15	(11.1%)	25	(18.2%)	40	(14.7%)
- Alopecia	8	(5.9%)	4	(2.9%)	12	(4.4%)
- Bronchitis	10	(7.4%)	7	(5.1%)	17	(6.3%)
- Cough	22	(16.3%)	19	(13.9%)	41	(15.1%)
- Cushingoid	30	(22.2%)	97	(70.8%)	127	(46.7%)
- Depressed mood	6	(4.4%)	15	(10.9%)	21	(7.7%)
- Diarrhoea	23	(17.0%)	12	(8.8%)	35	(12.9%)
- Euphoric mood	5	(3.7%)	7	(5.1%)	12	(4.4%)
- Gastroenteritis	13	(9.6%)	13	(9.5%)	26	(9.6%)
- Headache	20	(14.8%)	23	(16.8%)	43	(15.8%)
- Hypertension	4	(3.0%)	7	(5.1%)	11	(4.0%)
- Hypertrichosis	13	(9.6%)	39	(28.5%)	52	(19.1%)
- Infection	7	(5.2%)	7	(5.1%)	14	(5.1%)
- Irritability	6	(4.4%)	15	(10.9%)	21	(7.7%)
- Muscular weakness	0	(0.0%)	10	(7.3%)	10	(3.7%)
- Nasopharyngitis	26	(19.3%)	32	(23.4%)	58	(21.3%)
- Nausea	7	(5.2%)	6	(4.4%)	13	(4.8%)
- Otitis media	7	(5.2%)	6	(4.4%)	13	(4.8%)
- Pain in extremity	5	(3.7%)	7	(5.1%)	12	(4.4%)
- Pharyngitis	7	(5.2%)	7	(5.1%)	14	(5.1%)
- Pyrexia	30	(22.2%)	18	(13.1%)	48	(17.6%)
- Rash	11	(8.1%)	4	(2.9%)	15	(5.5%)
- Respiratory tract infection	38	(28.1%)	31	(22.6%)	69	(25.4%)
- Rhinitis	25	(18.5%)	19	(13.9%)	44	(16.2%)
- Rhinorrhoea	4	(3.0%)	6	(4.4%)	10	(3.7%)
- Upper respiratory tract infection	19	(14.1%)	7	(5.1%)	26	(9.6%)
- Vitamin D deficiency	7	(5.2%)	10	(7.3%)	17	(6.3%)
- Vomiting	14	(10.4%)	11	(8.0%)	25	(9.2%)
- Weight increased	6	(4.4%)	74	(54.0%)	80	(29.4%)

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SAE	MMF (N= 135)		Pred (N=137)		Total (N=272)	
Grade						
-mild	1	(0.7%)	2	(1.5%)	3	(1.1%)
-moderate	4	(3.0%)	0	(0.0%)	4	(1.5%)
-severe	2	(1.5%)	7	(5.1%)	9	(3.3%)
Causality to Prednisone						
-Definitely related	1	(0.7%)	0	(0.0%)	1	(0.4%)
-Possible	2	(1.5%)	3	(2.2%)	5	(1.8%)
-Unlikely	2	(1.5%)	5	(3.6%)	7	(2.6%)
-Not related	1	(0.7%)	1	(0.7%)	2	(0.7%)
Causality to MMF						
-Definitely related	0	(0.0%)	0	(0.0%)	0	(0.0%)
-Possible	2	(1.5%)	0	(0.0%)	2	(0.7%)
-Unlikely	0	(0.0%)	0	(0.0%)	0	(0.0%)
-Not related	5	(3.7%)	0	(0.0%)	5	(1.8%)
PT						
- Bronchitis	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Gastroenteritis	0	(0.0%)	3	(2.2%)	3	(1.1%)
- Headache	0	(0.0%)	2	(1.5%)	2	(0.7%)
- Hyperglycaemia	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Influenza	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Injury	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Nephrotic syndrome	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Oedema	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Pharyngitis	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Pyrexia	0	(0.0%)	2	(1.5%)	2	(0.7%)
- Renal disorder	1	(0.7%)	1	(0.7%)	2	(0.7%)
- Respiratory failure	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Respiratory tract infection	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Upper respiratory tract infection	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Urinary tract disorder	0	(0.0%)	1	(0.7%)	1	(0.4%)
- Urinary tract infection	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Varicella zoster virus infection	1	(0.7%)	0	(0.0%)	1	(0.4%)
- Vomiting	0	(0.0%)	2	(1.5%)	2	(0.7%)

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Conclusions

In this clinical trial, children with a first episode of nephrotic syndrome that had gone into remission under standard glucocorticoid therapy, i.e. who had steroid-sensitive nephrotic syndrome (SSNS), were randomized into two groups with regard to further remission-maintaining therapy. The control group received standard therapy with high-dose prednisone, so that the total duration of therapy was 12 weeks. The experimental group received MMF at a fixed dose of 1200 mg/m² BSA per day for the same duration of treatment.

The primary analyses based on the mITT and PP sets prove non-inferiority. However, as the trial was prematurely stopped due to futility this result is surprising and requires further investigation. However, the bias associated with the premature stopping of recruitment due to the open-label nature of the study is considered to be low.

Glucocorticoid-related adverse events were higher in the control group than in the experimental group. At the same time, MMF-associated adverse events were hardly increased in the MMF group compared to the Pred group, especially not to the extent described in the literature when MMF is used in combination with other immunosuppressants, for example in the post-transplant setting.

Nephrotic syndrome in children is a chronic relapsing disease. Many patients fulfill the definition of a frequently relapsing nephrotic syndrome (FRNS). Disease status FRNS was similar in the Prednisone and MMF groups. This result is consistent with other reports that the composition and duration of initial therapy do not have a major impact on the medium-term course of the disease. It also underlines the non-inferiority of the experimental group (MMF) compared to standard therapy (Pred) in terms of medium-term prognosis.

The presented results of the INTENT study show non-inferiority of the MMF arm to the standard prednisone arm with no safety concerns and fewer glucocorticoid-related adverse events, providing an excellent extension of the evidence base for future patient-centered shared decision making.

Date of report

31.01.2024

Signatures

Date: 31.1.2024

Signature:



Name (block letters): Prof. Dr. med. Burkhard Tönshoff

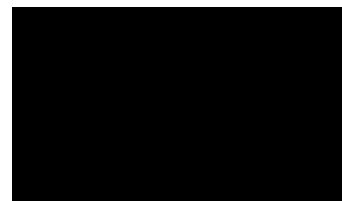
Function: Coordinating investigator
(Author)
(LKP according to §40 AMG)

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Date: 30.01.2024

Signature:

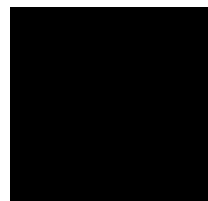


Name (block letters): Prof. Dr. med. Lutz Weber

Function: Medical Coordinator (Author)

Date: 30.01.2024

Signature:

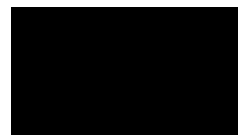


Name (block letters): Dr. med. Marcus Benz

Function: Medical Coordinator (Author)

Date: 30.01.2024

Signature:



Name (block letters): Dr. Anja Sander

Function: Biometrician

Appendices
Appendix 1: List of Study centers
Appendix 2: CONSORT Flow Diagram

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Appendix 1 List of study centers

No.	Study center	Name of Principle Investigator	Date of initiation	Date of closing
001	Universitätsklinikum Heidelberg Zentrum für Kinder- und Jugendmedizin Im Neuenheimer Feld 410 69120 Heidelberg	Prof. Dr. med. Burkhart Tönshoff	16.05.2015	21.02.2023
002	Klinik für Pädiatrie mit Schwerpunkt Nephrologie Charité Campus Virchow Klinikum Mittelallee 8 13353 Berlin	Dr. med. Jutta Gellermann	07.07.2015	04.05.2023
003	Klinik für Kinder- und Jugendmedizin/KinderZentrum Grenzweg 10 D33617 Bielefeld	Dr. med. Norbert Jorch	25.08.2015	26.07.2023
004	Klinisches Studienzentrum Pädiatrische Nephrologie Universitätsklinikum Bonn Venusberg-Campus 1 53127 Bonn	Dr. Indra Schulte	26.05.2015	03.02.2022
005	Klinikum Bremen-Mitte Eltern-Kind-Zentrum Prof.Hess St. Jürgen-Straße 1 28177 Bremen	Dr. Kristina Möller	21.08.2015	09.02.2022
007	Universität Klinikum Dresden Klinik und Poliklinik für Kinder- und Jugendmedizin Fetscherstraße 74 01307 Dresden	Dr. med. Brigitte Mayer	17.08.2015	15.02.2023
008	Universitätsklinikum Erlangen Kinder- und Jugendklinik Maximiliansplatz 2 91054 Erlangen	Dr. med. Katja Sauerstein	01.10.2015	29.11.2022
009	Universitätsklinikum Zentrum für Kinder- und Jugendmedizin Hufelandstr. 55 45122 Essen	Dr. Anja Büscher	26.05.2015	22.11.2022

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010	Universitätsmedizin Göttingen Zentrum für Kinderheilkunde und Jugendmedizin Robert-Koch-Str. 40 37075 Göttingen	Dr. Matthias Kettwig	15.01.2016	17.03.2022
011	Krankenhaus St. Elisabeth und St. Barbara Klinik für Kinder- und Jugendmedizin Mauerstraße 5 06110 Halle (Saale)	Dr. med. Ludwig Patzer	21.09.2015	08.08.2023
012	Universitätsklinikum Hamburg- Eppendorf Klinik für Kinder- und Jugendmedizin Martinistr. 52 20246 Hamburg	Dr. med. Jun Oh	21.08.2015	21.06.2023
013	MH Hannover Zentrum für Kinderheilkunde und Jugendmedizin Carl-Neuberg-Str. 1 30625 Hannover	Dr. med. Jens Drube	10.09.2015	21.03.2023
014	Universitätsklinikum Jena Klinik für Kinder- und Jugendmedizin Sektion Pädiatrische Nephrologie und KfH- Nierenzentrum und KfH Kinderdialyse Am Klinikum 1 07747 Jena	PD Dr. med. Ulrike John- Kroegel	17.08.2015	14.12.2022
015	Universitätsklinik Köln Klinik und Poliklinik für Kinder- und Jugendmedizin Kerpener Str. 62 50937 Köln	Prof. Dr. med. Lutz Weber	26.05.2015	29.06.2023
016	Zentrum für Kinder- und Jugendmedizin Sektion Pädiatrische Nephrologie Universitätsmedizin der Universität Mainz Langenbeckstraße 1 55101 Mainz	PD Dr. med. Rolf Beetz	20.07.2015	11.11.2020
017	Klinikum Memmingen Klinik für Kinderheilkunde und Jugendmedizin Bismarckstr. 23 87700 Memmingen	Dr. med. Henry Fehrenbach	27.07.2015	01.03.2023

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018	Krankenhaus Bethanien Moers Klinik für Kinder- und Jugendmedizin Bethanienstraße 21 47441 Moers	Dr. med. Michael Wallot	26.05.2015	19.10.2022
019	LMU München Kinderklinik und Kinderpoliklinik im Dr. von Haunerschen Kinderspital Lindwurmstr. 4 80337 München	PD Dr. med. Bärbel Lange- Sperando	23.09.2015	25.01.2023
020	Christliches Kinderhospital Osnabrück Johannsfreiheit 1 49074 Osnabrück	Dr. med. Michael van Husen	25.08.2015	26.10.2022
021	KfH-Nierenzentrum für Kinder und Jugendliche in der Kinder- und Jugendklinik der Universität Rostock Ernst-Heydemann-Str. 8 18057 Rostock	Dr. med. Hagen Staude	07.07.2015	25.05.2023
022	Universitätsklinikum Ulm Klinik für Kinder- und Jugendmedizin Eythstraße 24 89075 Ulm	Dr. med. Ortraud Beringer	29.07.2015	03.05.2023
023	Klinik für Allgemeine Kinder- und Jugendmedizinmedizin, Kinderneurologie, Mathildenstraße 1 79106 Freiburg	Prof. Dr. Martin Pohl	15.10.2015	16.08.2023
024	Klinik und Poliklinik für Kinder und Jugendliche Liebigstraße 20 a 04103 Leipzig	Zum Zeitpunkt der Schließung vom Zentrum wurde kein Prüfer gemeldet, Stellvertreter: Dr. med. Corinna Gebauer	24.11.2015	27.01.2022
025	Universitätsklinikum Gießen und Marburg Zentrum für Kinder- und Jugendmedizin Koordinierungsstelle für Klinische Forschung in der Pädiatrie Baldingerstraße 35033 Marburg	Prof. Dr. med. Stefanie Weber	22.10.2015	19.05.2022
026	Universitätskinderklinik Allgemeine Pädiatrie, Pädiatrische Nephrologie Waldeyerstr.22	Prof. Dr. med. Martin Konrad	13.11.2015	26.04.2023

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	48149 Münster			
027	Marienhauklinik St. Josef Kohlhof Klinik für Kinder- und Jugendmedizin Klinikweg 1 66539 Neunkirchen	Prof. Dr. Otto Schofer verstorben, deshalb Schließung vom Zentrum	17.11.2015	22.02.2017
028	HELIOS Kliniken Schwerin, Kinder- und Jugendmedizin Wismarsche Straße Nr. 393-397 19049 Schwerin	Dr. med. Matthias Kasbohm	11.11.2015	02.11.2022
029	Klinikum Augsburg 2. Klinik für Kinder und Jugendliche Mutter-Kind-Zentrum Schwaben Stenglinstr. 2 86156 Augsburg	Prof. Dr. med. Gernot Buheitel	28.04.2016	31.05.2023
030	Kinderklinik, Klinikum Dritter Orden Menzingerstr. 44 80638 München	Dr. med. Marcus Benz	11.05.2016	24.05.2023
031	Krankenhaus Barmherzige Brüder Regensburg - Klinik St. Hedwig Steinmetzstraße 1-3 93049 Regensburg	Dr. med. Jochen Kittel	19.07.2016	06.07.2023
032	Pädiatrische Nephrologie Klinik für Kinder- und Jugendmedizin Universitätsklinikum Tübingen Hoppe-Seylerstr. 1 72076 Tübingen	Dr. med. Matthias Zirngibl	09.05.2016	21.07.2023
033	Universitätsklinikum Schleswig- Holstein Klinik für Kinder- und Jugendmedizin I Arnold-Heller-Str. 3, Haus C D-24105 Kiel	Dr. med. Simon Vieth	06.04.2016	08.12.2022
034	Klinikum Coburg Ketschendorfer Str. 33 96450 Coburg	PD Dr. Dr. med Peter Dahlem	11.05.2017	18.01.2023
035	Clementine Kinderhospital Theobald- Christ-Str. 16 60316 Frankfurt am Main	Dr. med. Kay Latta	19.01.2017	15.02.2022
036	Olgahospital Stuttgart Klinikum Stuttgart, Klinik Pädiatrie 2 Kriegsbergstr. 62 70174 Stuttgart	Dr. med. Martin Bald	22.03.2017	12.04.2022
037	Städtisches Klinikum Dresden-	Dr. med. Geord Heubner	30.08.2017	20.07.2022

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	Neustadt Industriestraße 40 01129 Dresden			
038	Klinikum Dortmund gGmbH – Westfälisches Kinderzentrum Klinik für Kinder- und Jugendmedizin Beurhausstraße 40 44137 Dortmund	Prof. Dr. med. Dominik Schneider	29.03.2018	18.01.2022

Appendix 2 CONSORT Flow Diagram

