

CPOE und kuratierte Order Sets – mit Standards bis zum Endbenutzer

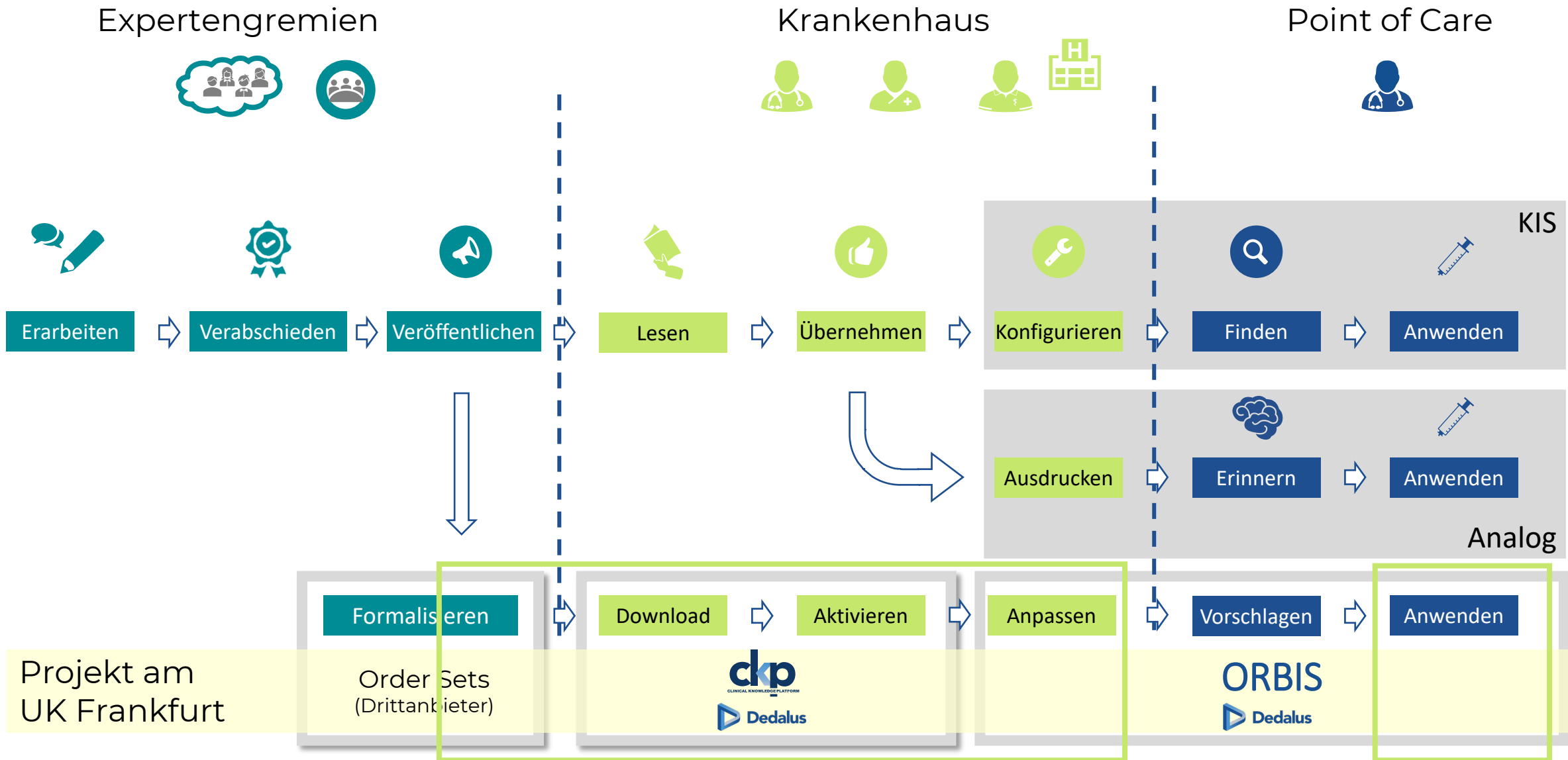
Dr. med. Dennis Rausch
Chief Medical Officer
Dedalus



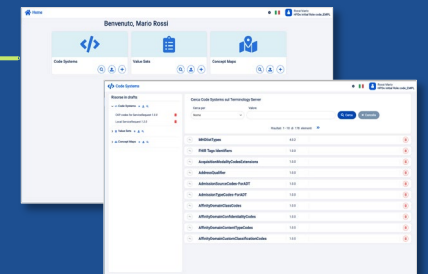
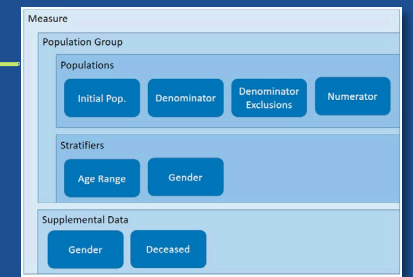
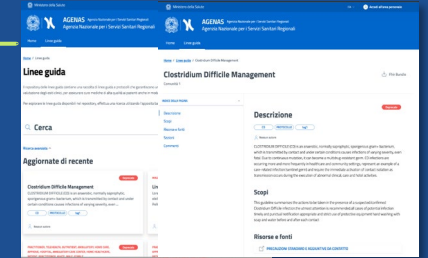
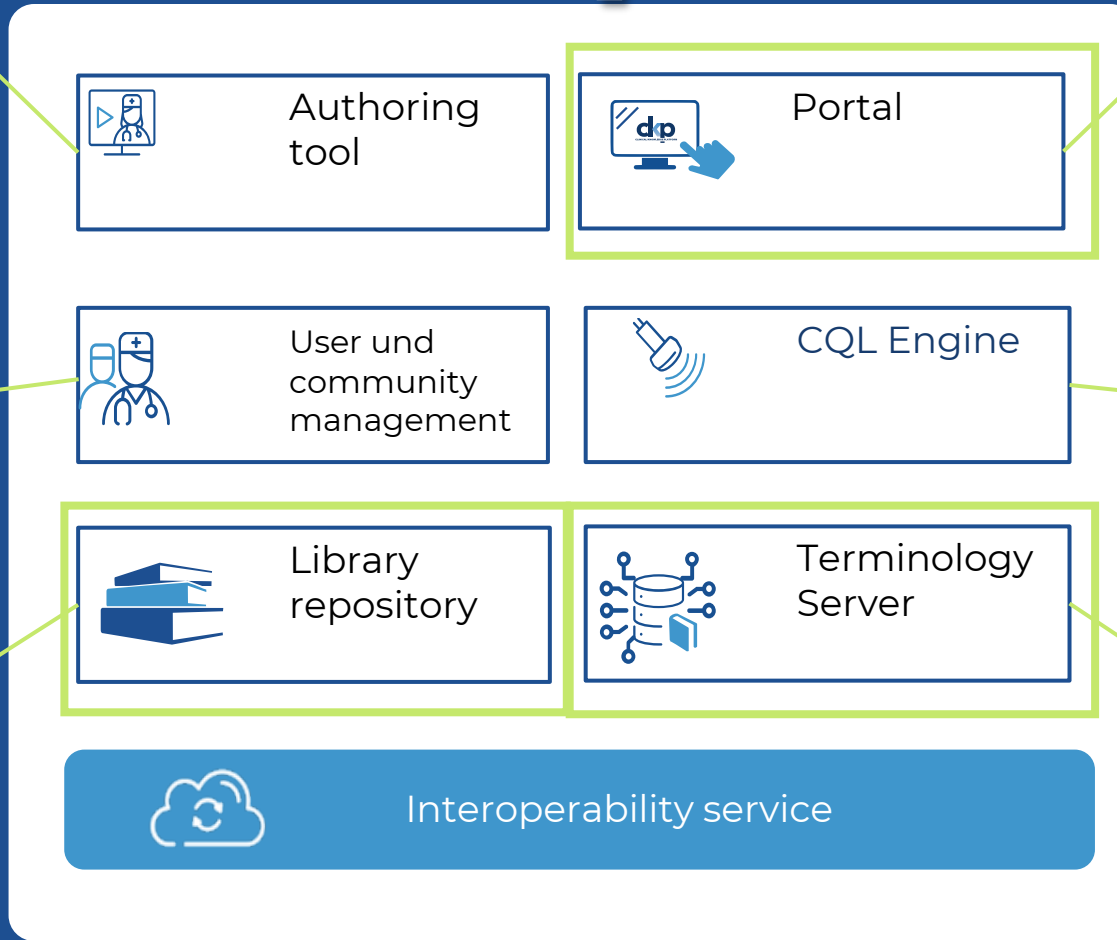
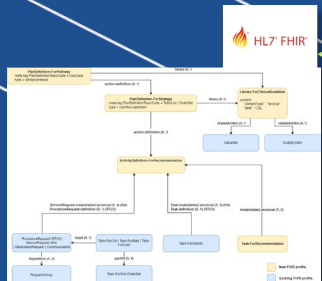
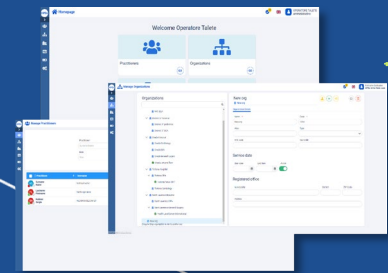
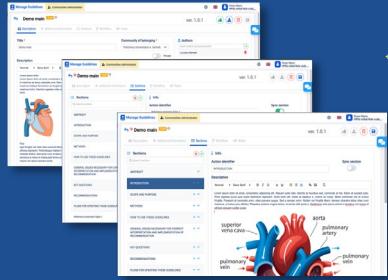
SYMPOSIUM

**CLINICAL DECISION
SUPPORT 2023**

Knowledge Translation – Von der Erkenntnis zur Anwendung

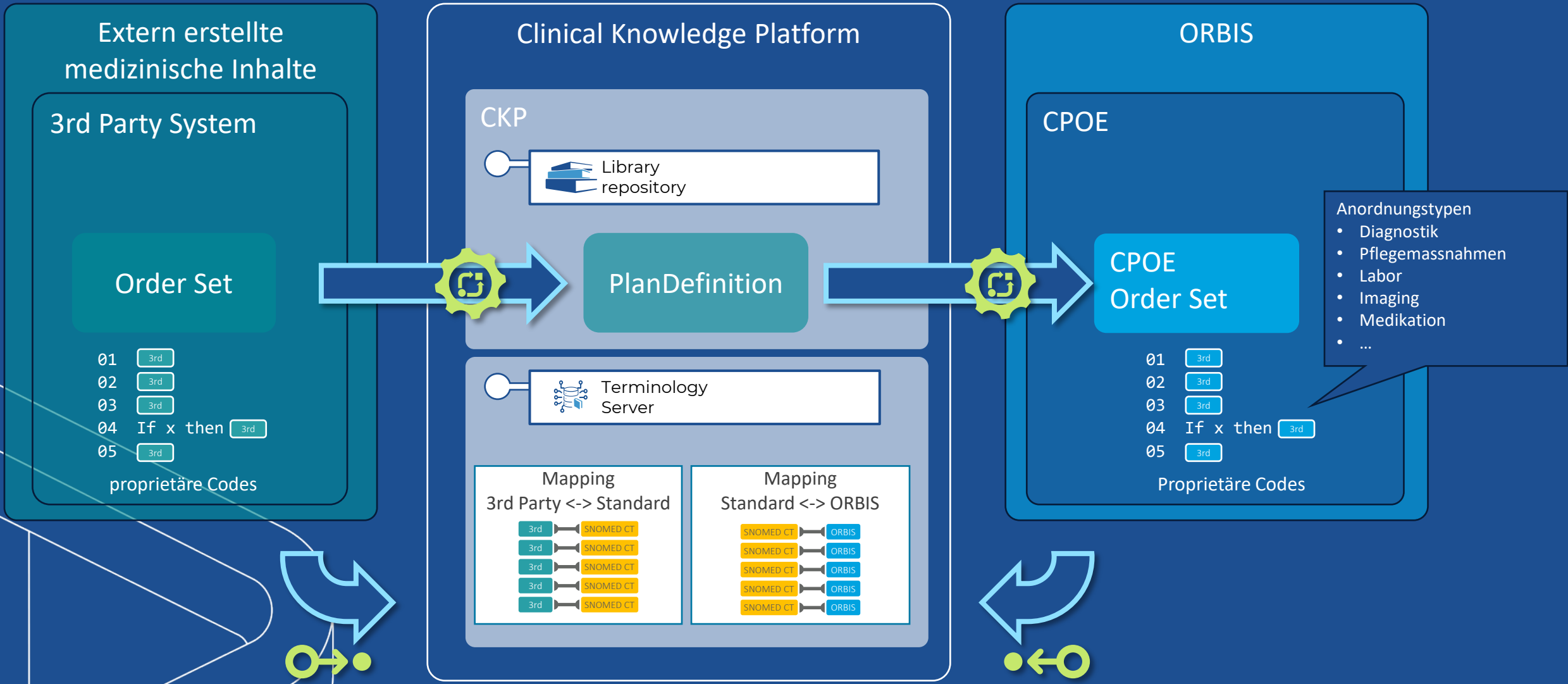


Clinical Knowledge Platform: Komponenten





Überblick



Ausgangspunkt: Order Set in strukturiertem Format



```
1  {
2    "catalogProvider" : "extprov",
3    "cdsNotes" : "Orderset Notaufnahme: Behandlung bei V.a. ischämischen Schlaganfall",
4    "exportTarget" : "thirdpartyprovider",
5    "groupId" : 74246,
6    "guidanceURL" : "https://externalpartyportal.com/#/FFB9D8802387216DE0530100007F6164",
7    "id" : 177272,
8    "keywords" : [ ],
9    "lastReviewDate" : [ 2023, 7, 5 ],
10   "linkedSet" : false,
11   "orderSetId" : "FFB9D8802387216DE0530100007F6164",
12   "ownerEmail" : "external.author@thirdpartyprovider.com",
13   "ownerName" : "External Author",
14   "provider" : "provider",
15   "publishedDate" : [ 2023, 7, 5, 8, 5, 9, 419000000 ],
16   "reviewDueReminder" : "N",
17   "specialties" : [ ],
18   "subItems" : [ {
19     "itemId" : "FFB9D880238C216DE0530100007F6164",
20     "name" : "Pflege",
21     "sectionType" : "Pflege",
22     "subItems" : [ {
23       "itemId" : "FFB9D8802379216DE0530100007F6164",
24       "name" : "Arzt benachrichtigen",
25       "value" : "Arzt benachrichtigen"
26     } ],
27     "NotifyPhysicianReason" : [ {
28       "value" : "bei Patienten, die starke Kopfschmerzen, akute Hypertonie, Übelkeit oder Erbrechen ent-
```

Order Set

Übelkeit oder

Ausgangspunkt: Order Set in strukturiertem Format



```
1  {
2    "catalogProvider" : "extprov",
3    "cdsNotes" : "Orderset Notaufnahme: Behandlung bei V.a. ischämischen Schlaganfall",
4    "exportTarget" : "thirdpartyprovider",
5    "groupId" : 74246,
6    "guidanceURL" : "https://externalpartyportal.com/#/FFB9D8802387216DE0530100007F6164",
7    "id" : 177272,
8    "keywords" : [ ],
9    "lastReviewDate" : [ 2023, 7, 5 ],
10   "linkedSet" : false,
11   "orderSetId" : "FFB9D8802387216DE0530100007F6164",
12   "ownerEmail" : "external.author@thirdpartyprovider.com",
13   "ownerName" : "External Author",
14   "provider" : "provider",
15   "publishedDate" : [ 2023, 7, 5, 8, 5, 9, 419000000 ],
16   "reviewDueReminder" : "N",
17   "specialties" : [ ],
18   "subItems" : [ {
19     "itemId" : "FFB9D880238C216DE0530100007F6164",
20     "name" : "Pflege",
21     "sectionType" : "Pflege",
22     "subItems" : [ {
23       "itemId" : "FFB9D8802379216DE0530100007F6164",
24       "name" : "Arzt benachrichtigen",
25       "value" : "Arzt benachrichtigen"
26     } ],
27     "NotifyPhysicianReason" : [ {
28       "value" : "bei Patienten, die starke Kopfschmerzen, akute Hypertonie, Übelkeit oder Erbrechen ent-
```

Order Set

Übelkeit oder

Schritt 1: In ckp importieren



Manage Guidelines Communities Administrator Luigi Ver EMPL

Import Options:

- Import from AT export
- Import from external datasource**

Form Fields:

- Title: Title
- Description: Description
- Status: Guideline Status
- Authors: Authors (Separated by comma)
- Tags: Tags (Separated by comma)
- Community: Community

Search & Filter: Search, Reset

Showing 1 - 2 of 2 items

| Title | Version | Status | Authors | Tags | Community |
|----------------|---------|--------|---------|------|------------|
| Demo Guideline | 1.0.0 | Draft | | | Comunità 1 |



Ausgangsformat in ckp-Format transformieren

3rd Party

```

1 {
2   "catalogProvider": "extprov",
3   "cdsNotes": "Orderset beschloss, sich wegen seines ischämischen Schlaganfalls in der Notaufnahme behandeln zu lassen",
4   "exportTarget": "thirdpartyprovider",
5   "groupId": "74246",
6   "guidanceURL": "https://externalpartyportal.com/#/FF89088823872160E0530100007F6164",
7   "id": "177272",
8   "keywords": [],
9   "lastReviewDate": [ 2023, 7, 5 ],
10  "linkedSet": false,
11  "orderSetId": "FF89088823872160E0530100007F6164",
12  "ownerEmail": "external.author@thirdpartyprovider.com",
13  "ownerName": "External Author",
14  "provider": "provider",
15  "publishedDate": [ 2023, 7, 5, 0, 5, 9, 419000000 ],
16  "reviewQueueReminder": "N",
17  "specialties": [],
18  "subItems": [
19    {
20      "itemId": "FF89088823872160E0530100007F6164",
21      "name": "Pflege",
22      "sectionType": "Pflege",
23      "subItems": [
24        {
25          "itemId": "FF89088823872160E0530100007F6164",
26          "name": "Arzt benachrichtigen",

```

Order Set

Transformation



```

"resource": {
  "resourceType": "PlanDefinition",
  "meta": {
  },
  "extension": [
  ],
  "url": "http://clinicalknowledgeplatform.com/fhir/PlanDefinition/Plan_orderst1",
  "relatedArtifact": [
    {
      "type": "documentation",
      "url": "https://externalpartyportal.com/#/FF89088823872160E0530100007F6164"
    }
  ],
  "version": "2.0",
  "date": "2023-05-07T08:05:09.419000000",
  "lastReviewDate": "2023-05-07",
  "title": "Tischärztliche Schlaganfall - Notaufnahme",
  "description": "Orderset beschloss, sich wegen seines ischämischen Schlaganfalls in der Notaufnahme behandeln zu lassen",
  "identifier": [
    {
      "system": "http://clinicalknowledgeplatform.com/identifiers/groupID",
      "value": "74246"
    }
  ],
  "action": [
    {
      "title": "Labor",
      "description": "Labor",
      "code": {
        "coding": [
          {
            "system": "http://clinicalknowledgeplatform.com/fhir/CodeSystem/OP-common-process",
            "code": "labor"
          }
        ]
      },
      "type": {
        "coding": [
          {
            "system": "http://terminology.hl7.org/CodeSystem/plan-definition-type",
            "code": "work-flow-of-instant"
          }
        ]
      },
      "text": "SECTION"
    }
  ],
  "definitionCanonical": "http://clinicalknowledgeplatform.com/fhir/PlanDefinition",
  "title": "Pflege",
  "description": "Pflege",
  "resource": {
    "resourceType": "ActivityDefinition",
    "meta": {
    },
    "extension": [
    ],
    "identifier": [
      {
        "system": "http://clinicalknowledgeplatform.com/identifiers/it",
        "value": "FF89088823872160E0530100007F6164"
      },
      {
        "system": "http://clinicalknowledgeplatform.com/identifiers/conceptid",
        "value": "8090c6a-655-403-8795-8955282424"
      },
      {
        "system": "http://clinicalknowledgeplatform.com/identifiers/catalogkey",
        "value": "Arterial blood gas measurement"
      }
    ],
    "url": "http://clinicalknowledgeplatform.com/fhir/ActivityDefinition/ActDef_order1",
    "name": "Labor: Arterielle Blutgasanalyse (BA) , Einmal",
    "description": "Labor: Arterielle Blutgasanalyse (BA) , Einmal",
    "status": "draft",
    "kind": "ServiceRequest"
  }
},

```

PlanDefinition



Resultat: FHIR PlanDefinition



```
"resource": {
  "resourceType": "PlanDefinition",
  "meta": { ... },
  "extension": [ ... ],
  "url": "http://clinicalknowledgeplatform.com/fhir/PlanDefinition/Plan_orderSet1",
  "relatedArtifact": [
    {
      "type": "documentation",
      "url": "https://externalpartyportal.com/#/FFB9D8802387216DE0530100007F6164"
    }
  ],
  "version": "2.0",
  "date": "2023-05-07T08:05:09.419+00:00",
  "lastReviewDate": "2023-05-07",
  "title": "Ischämischer Schlaganfall - Notaufnahme",
  "description": "Orderset Notaufnahme: Behandlung bei V.a. ischämischen Schlaganfall",
  "identifier": [
    {
      "system": "http://clinicalknowledgeplatform.com/identifiers/groupID",
      "value": "74246"
    }
  ]
}
```

PlanDefinition

Resultat: FHIR PlanDefinition



```
"resource": {
  "resourceType": "ActivityDefinition",
  "meta": { ... },
  "extension": [ ... ],
  "identifier": [
    {
      "system": "http://clinicalknowledgeplatform.com/identifiers/itemId",
      "value": "FFB9D880234F216DE0530100007F6164"
    },
    {
      "system": "http://clinicalknowledgeplatform.com/identifiers/conceptId",
      "value": "8b9dc6ea-de55-44b3-b795-83955269a2e4"
    },
    {
      "system": "http://clinicalknowledgeplatform.com/identifiers/catalogKey",
      "value": "Arterial blood gas measurement"
    }
  ],
  "url": "http://clinicalknowledgeplatform.com/fhir/ActivityDefinition/ActDef_order1",
  "name": "Labor: Arterielle Blutgasanalyse (BGA) , Einmal",
  "description": "Labor: Arterielle Blutgasanalyse (BGA) , Einmal",
  "status": "draft",
  "kind": "ServiceRequest"
},
```

PlanDefinition

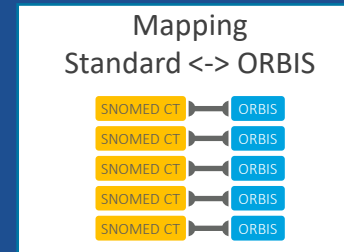
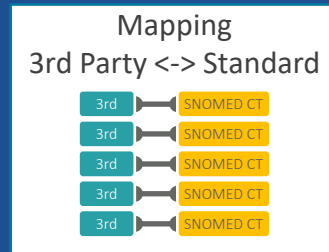


Terminologie-Mapping

- 01 3rd
- 02 3rd
- 03 3rd
- 04 If x then 3rd
- 05 3rd

- 01 ORBIS
- 02 ORBIS
- 03 ORBIS
- 04 If x then ORBIS
- 05 ORBIS

Mapping



SNOMED CT

LOINC[®]
from Regenstrief

3rd Party-Codes als *Code System* anlegen und befüllen



</> Edit Code System

USER ADMIN Verdi Luigi EMPL

Drafts Resources

</> Code Systems + ↕ 🔍

CKP-ThirdPartyProvider 1.0.0

> Value Sets + ↕ 🔍

> Concept Maps + ↕ 🔍

CodeSystem Editor: CKP-ThirdPartyProvider



Define Codes Metadata Additional Information Narrative Define Concepts

Total number of Concepts 6

Search for

Value

Code, Display, Definition,...

Search

Cancel

6 element(s)

| Code | Display | Definition | Properties |
|--------------------------------------|------------------------------------|------------------------------------|------------|
| 0635f722-a21d-4c64-8fc4-685c2bc40576 | Notify Physician for Diastolic BP | Notify Physician for Diastolic BP | 0 |
| 26be9384-76ac-4a76-99e6-a841fcd8dd30 | CT Angiogram, Head/brain and neck | CT Angiogram, Head/brain and neck | 0 |
| 51a76b79-fe82-4602-b751-327bb1b5487f | Notify Physician Other | Notify Physician Other | 0 |
| 8b9dc6ea-de55-44b3-b795-83955269a2e4 | Arterial blood gas measurement | Arterial blood gas measurement | 0 |
| dd191d69-db86-4be1-83c6-8e62148d81f8 | CT, Brain/head without IV contrast | CT, Brain/head without IV contrast | 0 |
| ec156331-61cd-4b5f-8233-b13e5fc37308 | Venous blood gas measurement | Venous blood gas measurement | 0 |

3rd Party Codes auf Standardterminologie mappen



Edit Concept Map USER ADMIN Verdi Luigi EMPL

Drafts Resources

- Code Systems
- Value Sets
- Concept Maps
 - CKP-ThirdParty-To-Orbis 1.0.0
 - CKP-ThirdParty-To-SNOMED**
 - CKP-SNOMED-To-Orbis 1.0.0

ConceptMap Editor: CKP-ThirdParty-To-SNOMED ID

Main **Map Terms** Metadata Additional Information Narrative

Source Value Set: <http://terminology.clinicalknowledgeplatform.com/fhir/StructureDefinition/ValueSet-CKP->

Target Value Set: <http://clinicalknowledgeplatform.com/fhir/ValueSet/CKP-Snomed-Demo>

6 mapping(s)

| Source Code | Relationship | Target Code | Target Label | Count | Add | Delete |
|---|----------------------|-------------|---|-------|--------------------------|--------------------------|
| 3rd <input checked="" type="checkbox"/> 0635f722-a21d-4c64-8fc4-685c2bc40576 (Notify Physician for Diastolic BP) | SNOMED CT related to | 428426009 | Notification of physician | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3rd <input checked="" type="checkbox"/> 26be9384-76ac-4a76-99e6-a841fcd8dd30 (CT Angiogram, Head/brain and neck) | SNOMED CT equivalent | 702430003 | CT angiography of head and neck with contrast | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3rd <input checked="" type="checkbox"/> 51a76b79-fe82-4602-b751-327bb1b5487f (Notify Physician Other) | SNOMED CT related to | 428426009 | Notification of physician | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3rd <input checked="" type="checkbox"/> 8b9dc6ea-de55-44b3-b795-83955269a2e4 (Arterial blood gas measurement) | SNOMED CT equivalent | 91308007 | Blood gases, arterial measurement | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3rd <input checked="" type="checkbox"/> dd191d69-db86-4be1-83c6-8e62148d81f8 (CT, Brain/head without IV contrast) | SNOMED CT equivalent | 396205005 | CT of brain without contrast | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| 3rd <input checked="" type="checkbox"/> ec156331-61cd-4b5f-8233-b13e5fc37308 (Venous blood gas measurement) | SNOMED CT equivalent | 61911006 | Blood gases, venous measurement | 1 | <input type="checkbox"/> | <input type="checkbox"/> |

ORBIS-Seite: Modulare Kataloge für unterschiedliche Anordnungstypen



</> Edit Code System USER ADMIN Verdi Luigi EMPL

Drafts Resources

- Code Systems +
- CKP-OrbisCodes-ML 1.0.0
- CKP-OrbisCodes-LAWP 1.0.0
- CKP-OrbisCodes-SSST 1.0.0**

> Value Sets +

> Concept Maps +

CodeSystem Editor: CKP-OrbisCodes-SSST

Define Codes Metadata Additional Information Narrative **Define Concepts**

Total number of Concepts 2

Search for Value

Code, Display, Definition, ...

2 element(s)

| Code | Display | Definition | Properties |
|-----------|------------------------------------|------------------------------------|------------|
| 396205005 | CT, Brain/head without IV contrast | CT, Brain/head without IV contrast | 0 |
| 702430003 | CT Angiogram, Head/brain and neck | CT Angiogram, Head/brain and neck | 0 |

ORBIS-Seite: Modulare Kataloge für unterschiedliche Anordnungstypen



The screenshot displays the 'Edit Code System' interface for 'CKP-OrbisCodes-SSST'. A 'Concept Detail' modal window is open, showing the following information:

| Code | Display | Definition |
|-----------|------------------------------------|------------------------------------|
| 396205005 | CT, Brain/head without IV contrast | CT, Brain/head without IV contrast |

Below the main fields, there is a 'Designation' section with a table:

| Language | Value |
|----------|----------------------|
| German | CT Kopf/Hals ohne KM |

ORBIS ValueSet aus Katalogen zusammenstellen



Edit Value Set

USER ADMIN



Verdi Luigi
EMPL

Drafts Resources

> Code Systems + ↕ 🔍

Value Sets + ↕ 🔍

CKP-ThirdPartyProvider 1.0.0



CKP-OrbisCodes-ALL 1.0.0



> Concept Maps + ↕ 🔍

ValueSet Editor: CKP-OrbisCodes-ALL



Define Contents **Inclusions & Exclusions** Metadata Additional Information Narrative

List of Inclusions List of Exclusions

Include + Add another

You can choose one mode at a time from: ValueSet, Concept of a CodeSystem, Filter of a CodeSystem

ValueSet Concept from CodeSystem Filter from CodeSystem

ValueSet

<http://clinicalknowledgeplatform.com/fhir/ValueSet/CKP-OrbisCodes-SSST>



<http://clinicalknowledgeplatform.com/fhir/ValueSet/CKP-OrbisCodes-LAWP>



<http://clinicalknowledgeplatform.com/fhir/ValueSet/CKP-OrbisCodes-ML>



ORBIS Codes auf Standardterminologie mappen



Edit Concept Map USER ADMIN Verdi Luigi EMPL

ConceptMap Editor: CKP-SNOMED-To-Orbis ID 5

Main **Map Terms** Metadata Additional Information Narrative

Source Value Set Target Value Set

6 mapping(s)

| | Source Code | Relationship | Target Code | Target Label | Count | Add | Delete |
|----------|---|-----------------------|---------------|------------------------------------|-------|-----|--------|
| ORBIS | 396205005 (CT of brain without contrast) | SNOMED CT equivalence | 396205005 | CT, Brain/head without IV contrast | 1 | + | - |
| ORBIS | 428426009 (Notification of physician) | SNOMED CT related to | 428426009 | Notify Physician Other | 2 | + | - |
| | | SNOMED CT related to | 428426009-Bis | Notify Physician for Diastolic BP | | | - |
| 3rdORBIS | 61911006 (Blood gases, venous measurement) | SNOMED CT equivalence | 61911006 | Venous blood gas measurement | 1 | + | - |
| 3rdORBIS | 702430003 (CT angiography of head and neck with contrast) | SNOMED CT equivalence | 702430003 | CT Angiogram, Head/brain and neck | 1 | + | - |
| 3rdORBIS | 91308007 (Blood gases, arterial measurement) | SNOMED CT equivalence | 91308007 | Arterial blood gas measurement | 1 | + | - |

3rd Party auf SNOMED CT und übergeleitete ORBIS Synonyme



Edit Concept Map USER ADMIN Verdi Luigi EMPL

ConceptMap Editor: CKP-ThirdParty-ToSNOMEDAndOrbis ID

Main **Map Terms** Metadata Additional Information Narrative






Source Value Set Target Value Set

12 mapping(s)

| | Source Code | Relationship | Target Code | Target Label | Count | Add | Delete |
|-----|--|--------------|-------------|-----------------------|-------|-----|--------|
| 3rd | 0635f722-a21d-4c64-8fc4-685c2bc40576 (Notify Physician for Diastolic BP) | | | | 2 | + | - |
| | | SNOMED CT | equivalence | 428426009- Bis (i) | | | - |
| | | ORBIS | related to | 428426009 (i) | | | - |
| 3rd | 26be9384-76ac-4a76-99e6-a841fcd8dd30 (CT Angiogram, Head/brain and neck) | | | | 2 | + | - |
| | | SNOMED CT | equivalence | 702430003 (i) | | | - |
| | | ORBIS | equivalence | 702430003 (i) | | | - |
| 3rd | 51a76b79-fe82-4602-b751-327bb1b5487f (Notify Physician Other) | | | | 2 | + | - |
| | | SNOMED CT | equivalence | 428426009 (i) | | | - |
| | | ORBIS | related to | 428426009 (i) | | | - |
| 3rd | 8b9dc6ea-de55-44b3-b795-83955269a2e4 (Arterial blood gas measurement) | | | | 2 | + | - |
| | | SNOMED CT | equivalence | 91308007 (i) | | | - |
| | | ORBIS | equivalence | 91308007 (i) | | | - |

Content Editor – Beschreibung bearbeiten








← * Ischämischer Schlaganfall - Notaufnahme Draft ? ver. 2.0.0     

[Description](#) + Additional Information Sections Workflow Measures Activities



Title * **Community *** Private

Description

Normal Sans Serif B I U A     

Orderset Notaufnahme: Behandlung bei V.a. ischämischen Schlaganfall.






Authors


 External Author 

TAG

Level *






Purpose







Normal Sans Serif B I U A     





Purpose

Content Editor – Workflow bearbeiten


















← Ischämischer Schlaganfall - Notaufnahme Draft ? ver. 2.0.0     

 Description  Additional Information  Sections  **Workflow**  Measures  Activities

Start over × Sync Sections ↻    

```
graph LR; Inizio((Inizio)) --> Labor; subgraph Labor; Inizio_Labor((Inizio)) --> Blutgasanalyse[Blutgasanalyse]; Blutgasanalyse --> Fine_Labor((Fine)); end; Labor --> Pflege; subgraph Pflege; Inizio_Pflege((Inizio)) --> Arzt[Arzt benachrichtigen]; Arzt --> Fine_Pflege((Fine)); end; Pflege --> Fine((Fine));
```

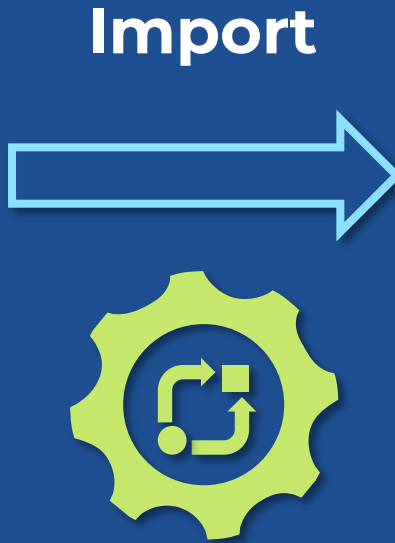
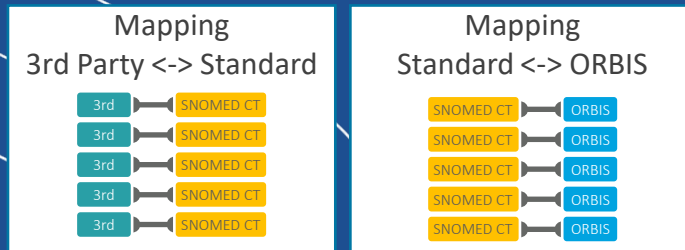
BPMN.io



Nach ORBIS importieren



PlanDefinition



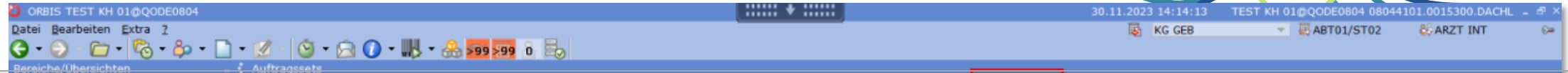
ORBIS

CPOE Order Set

- 01
- 02
- 03
- 04 If x then
- 05

Proprietäre Codes

CPOE Konfiguration - Auftragssets



Auftragssets

[Auftragssetanlage](#)
[Aktualisieren](#)
[Neu](#)
[Bearbeiten](#)
[Löschen](#)
[Ausgewählte kopieren](#)
[Cache der Leistungen leeren](#)
[Importieren](#)

Auftragsset suchen

| Kürzel | Name |
|--------------|---------------------|
| AB | Akuter Brustschmerz |
| ALPHA | ALPHA TEST |
| amanrad2June | amanrad2June |

| Kürzel | Name | Anzahl | Datum |
|------------------------|---------------------------------|--------|------------------|
| HTEP | Hüfttotalendoprothese | | |
| ICUManager | ICU-Manager Measurements | 1 | 07/12/2021 13:45 |
| KABEG | KABEG | 1 | 19/04/2023 10:43 |
| KURVTEST | Nursing admission prescriptions | 1 | 04/09/2017 09:59 |
| LAP | Laparoskopie | 1 | 04/04/2017 13:37 |
| Majid protocol | Majid protocol | 1 | 30/09/2021 10:10 |
| MEDNOPRIOOrderset | MEDNOPRIOOrderset | | |
| Meinorderset | meinorderset | 1 | 29/11/2021 13:51 |
| MH Test | MH Testset für Demo | 2 | 19/04/2022 16:32 |
| MI | Myocardial infarction | 3 | 27/04/2021 09:38 |
| MIX | Mix | 2 | 19/04/2022 11:56 |
| Multi domain test | muti domain order set | 1 | 09/05/2022 10:23 |
| NB | Nachverfolgen Brustschmerz | 1 | 25/06/2017 22:25 |
| NURSCL | Nursing Classic ORDER | | |
| Nursing U AuftragIG | Nursing U TestauftragIG | 1 | 29/11/2022 16:54 |
| NURSMC_OD_Verarbeitung | NURSMC_OD_Verarbeitung | 1 | 11/05/2021 14:42 |

Auswahl des Order Sets



Heim / Linee Guida / Ischämischer Schlaganfall - Notaufnahme

Ischämischer Schlaganfall - Notaufnahme

Comunità 1

01-12-2023

INDICE DELLA PAGINA

- Beschreibung
- Risorse e fonti
- Sezioni
 - Arbeit
 - Pflege
- Commenti

↓ Fhir-Paket

Publicato

Beschreibung

ORDNUNGSSATZ topic_topic1 keyword_key1 specialities_spec1 population_popul1
catalogprovider_extprov exportTarget_thirdpartyprovider

Externer Autor

Orderset Notaufnahme: Behandlung bei V.a. ischämischen Schlaganfall.

Risorse e fonti

Orderset (Geordneter Satz)

Sezioni

```
graph LR; Inizio((Inizio)) --> Labor; subgraph Labor; Inizio_Lab((Inizio)) --> Blutgasanalyse[Blutgasanalyse]; Blutgasanalyse --> Fine_Lab((Fine)); end; Labor --> Pflege; subgraph Pflege; Inizio_Pfeg((Inizio)) --> Arzt[Arzt benachrichtigen]; Arzt --> Fine_Pfeg((Fine)); end; Pflege --> Fine_Final((Fine));
```

Importiertes Order Set



The screenshot shows the ORBIS software interface. The main window displays a list of order sets with columns for 'Kürzel', 'Name', 'Version', and 'Aktivierungsdatum'. A modal window titled 'Auftragsset löschen' is open, showing details for the order set 'ckp_Schlaganfall'. The modal includes a table of 'Leistungen' (services) with columns for 'Kürzel', 'Bezeichnung', and 'LAWP'. The table is highlighted with a green border.

| Kürzel | Name | Version | Aktivierungsdatum |
|--------------|---------------------|---------|-------------------|
| AB | Akuter Brustschmerz | 4 | 02/05/2022 17:07 |
| ALPHA | ALPHA TEST | 2 | 21/11/2023 08:40 |
| amanrad2June | amanrad2June | 1 | 30/10/2023 12:38 |
| APP | Appendizitis | 3 | 15/09/2022 14:59 |

| Version | Letzte Änderung |
|---------|------------------|
| 1 | 30/11/2023 14:31 |

| Kürzel | Bezeichnung | LAWP |
|---------------|---|------|
| 428426009 | Arzt informieren | ML |
| 428426009-Bis | Arzt informieren | ML |
| 396205005 | Radiologie Haus1.CT.Kopf/Hals.Ohne Kontrastmittel | SSST |
| 702430003 | Radiologie Haus1.CT.Kopf/Hals.Mit Kontrastmittel | SSST |
| 61911006 | Venöse Blutgasanalyse | LAWP |
| 91308007 | Arterielle Blutgasanalyse | LAWP |

Order Set aktivieren



ORBIS TEST KH 01@QODE0804

30.11.2023 14:35:21 TEST KH 01@QODE0804 08044101.0015300.DACHL

KG GEB ABT01/ST02 ARZT INT

Bereiche/Übersichten

- Tools
- Neuer Eintrag 2
- Finanzbuchhaltung
- Systemadministration
- ADM CPOE
- ADM Global
- ADM Patientendatenmanagemen
- ADM OP
- Formularauswahl
- Auftragssets
- Filter für Übersicht
- Gegenzeichnen
- Detaillierte Auftragssets

geöffnete Akten

Auftragssets

Auftragssetanlage Aktualisieren Neu Bearbeiten Löschen Ausgewählte kopieren Cache der Leistungen leeren Importieren

Auftragsset suchen

| Kürzel | Name | Version | Aktivierungsdatum |
|--------------------|------------------------------|---------|-------------------|
| AB | Akuter Brustschmerz | 4 | 02/05/2022 17:07 |
| ALPHA | ALPHA TEST | 2 | 21/11/2023 08:40 |
| amanrad2June | amanrad2June | 1 | 30/10/2023 12:38 |
| APP | Appendizitis | 3 | 15/09/2022 14:59 |
| applab | Ext Appendizitis | 1 | 04/04/2017 13:37 |
| AXFMZ_E2E_PROTO_1 | AXFMZ_E2E_PROTO_1_DoNotTouch | 2 | 10/07/2023 12:11 |
| az-demo-orderset | az-demo-orderset | 2 | 16/10/2023 07:56 |
| Stroke ischemy | Stroke ischemy | | |
| Emergency protocol | Emergency protocol | | |
| ckp_Schlaganfall | ckp_Schlaganfall | | |
| CN Daniel | CPOE Nursing | 3 | 07/09/2023 16:05 |
| CPOE_GLOBAL_TEST | CPOE_GLOBAL_TEST | 3 | 30/11/2023 13:01 |
| CPOE_MED_TEST | CPOE_MED_TEST | 1 | 15/07/2019 10:37 |
| DACHLRULES | DACHLRULES | 1 | 07/07/2021 13:02 |
| dagset | dagset | | |
| DanTest | Daniel Einarbeitung | 1 | 17/05/2023 11:34 |
| demo1 | demo1 | 1 | 23/09/2020 15:36 |

Name: ckp_Schlaganfall

Aktivieren Deaktivieren Hinzufügen

| Version | Letzte Änderung |
|---------|--------------------------|
| 2 | 30/11/2023 14:35 - Aktiv |
| 1 | 30/11/2023 14:31 |

Leistungen

Allgemein

Codesys

- ML
- ML
- SSST
- SSST
- LAWP
- LAWP



Das Ergebnis – extern kuratiertes Order Set in ORBIS anwenden

ORBIS

CPOE
Order Set

- 01
- 02
- 03
- 04 If x then
- 05

Proprietäre Codes



ORBIS CPOE – Klinischer Anordnungsarbeitsplatz



The screenshot displays the ORBIS CPOE interface for a patient named FRANÇOIS, Claude (DOB: 01. Feb. 1939). The interface is divided into a navigation sidebar on the left and a main content area on the right. The sidebar lists various clinical functions such as 'Order overview', 'Verlauf und Notizen', 'Assessment Übersicht', 'Diagnosen und Probleme', 'Zugänge und Drainagen', 'Patientenportal', 'Wunden und Zugänge', 'Liste der Pflegemaßnahmen', 'Nutrition Management', 'CAVE U', 'Pflegeplanung', 'Pflegeübersicht', 'Gesamtübersicht Pflege', 'Patientenkurve', 'Probenübersicht', 'Übersicht: Operationen', 'Order Manager', 'ME Dokumente', 'Beobachtungen', 'Patienten Zusammenfassung', 'Patiententasks', and 'Medikation'. The main content area shows the 'Order overview' for a patient with PID 514759 in the 'Fachabteilung 01 / ST02, 33002834' department. The current order group is 'Neue Auftragsgruppe: 0 Auftrag/Aufträge'. A search bar is highlighted with a green box, containing the text 'ckp'. Below the search bar, a table of orders is displayed, with the first row highlighted in green. The table has columns for order type, description, and a reference number. The first row shows 'Allgemeine Aufträge - 2 Ergebnis(se)', 'ckp_Schlaganfall', and '0657'. The description for this order is 'Information des Pat. über die Auswahl von geeigneten Schuhwerk (z.B. Entlastung von Druckpunkten, ggf. Schuhe vom Orthopädietechniker/in anfertigen lassen)'. A red 'Abbrechen' button is located in the bottom right corner of the interface.

ORBIS Übersicht | Patienten | Recherche de patients | Systemmonitoring | Startseite | Stationen | Stationen | Chirurgie Fachabteilung 05 - Stat... | FRANÇOIS, Claude | Order ove... | Erfassen

FRANÇOIS, Claude * 01. Feb. 1939 (84 Jahre)
ST02 / - / - / 33002834 (0 Tage)

Navigation | Patientenakte / PID 514759 / Fachabteilung 01 / ST02, 33002834 / Order overview

← Neue Auftragsgruppe: 0 Auftrag/Aufträge
Durchsuchen und hinzufügen | Aktuelle Auftragsgruppe 0

Alle |

Allgemeine Aufträge - 2 Ergebnis(se)

| Order Type | Description | Reference | Action |
|------------------|---|-----------|--------|
| ckp_Schlaganfall | Information des Pat. über die Auswahl von geeigneten Schuhwerk (z.B. Entlastung von Druckpunkten, ggf. Schuhe vom Orthopädietechniker/in anfertigen lassen) | 0657 | |

Abbrechen

Order Set Anordnen



ORBIS Übersicht | Patienten | Recherche de patients | Systemmonitoring | Startseite | Stationen | Stationen | Chirurgie Fachabteilung 05 - Stat... | FRANÇOIS, Claude | Order ove...

Patientenakte / PID 514759 / Fachabteilung 01 / ST02. 33002834 / Order overview

Neue Auftragsgruppe: 6 Auftrag/Aufträge

Durchsuchen und hinzufügen | Aktuelle Auftragsgruppe 6

Allgemein

Routing

Auftragsgruppe

Domänen | Auftragssets

Bildgebung 2

- CT Kopf/Hals ohne KM
Geplant am 30.11.2023 15:27
ckp_Schlaganfall (Routine, Voreinstellung)
- CT Kopf/Hals mit KM
Geplant am 30.11.2023 15:27
ckp_Schlaganfall (Routine, Voreinstellung)

Labor 2

- Venöse Blutgasanalyse
Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29)
ckp_Schlaganfall (Routine, Voreinstellung)
- Arterielle Blutgasanalyse
Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29)
ckp_Schlaganfall (Routine, Voreinstellung)

Pflege 2

- Arzt informieren
Geplant am 30.11.2023 bei Bedarf
ckp_Schlaganfall (Routine, Voreinstellung)
- Arzt informieren
Geplant am 30.11.2023 bei Bedarf
ckp_Schlaganfall (Routine, Voreinstellung)

Allgemein

Verknüpfte Fallnummer : 33002834 [Auftragsgruppe ohne Fall erstellen](#)

* Standort des Patienten : Fachabteilung 01 - Station 02 CHI [651 88152](#)

* Verordnet von : COXX Perry-Walter

* Priorität : Routine, Voreinstellung

* Erstellt von : COXX Perry-Walter

Zugehörige Wunde : Wählen Sie eine Wunde

Zugehörige Operation : Operation auswählen

* Klinische Information : der Patient hatte einen Schlaganfall [Historie](#)

Standard-Referenzdatum Labor : 30.11.2023 12:30 [x](#) [🕒](#) Empfohlenes Datum für alle geplanten Probenentnahmen

[Abbrechen](#) | Aufträge 6 | [Signieren](#)

Behandlungsplan in ORBIS



The screenshot displays the ORBIS patient management interface for patient FRANÇOIS, Claude (DOB: 01. Feb. 1939, 84 Jahre). The patient's ID is ST02 and their ORBIS number is 33002834. The interface is in German and shows a navigation menu on the left and a main content area titled 'Auftragsübersicht' (Order Overview).

The 'Auftragsübersicht' section is divided into several categories:

- Medication:** No items are listed.
- Bildgebung (Imaging):** 2 items:
 - CT Kopf/Hals mit KM: Geplant am 30.11.2023 15:27, Status: Signiert, 30.11.23, 15:27.
 - CT Kopf/Hals ohne KM: Geplant am 30.11.2023 15:27, Status: Signiert, 30.11.23, 15:27.
- Labor (Labor):** 6 items:
 - Arterielle Blutgasanalyse: Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29), Status: Signiert, 30.11.23, 12:30.
 - Arterielle Blutgasanalyse: Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29), Status: Signiert, 30.11.23, 12:30.
 - Venöse Blutgasanalyse: Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29), Status: Signiert, 30.11.23, 12:30.
 - Venöse Blutgasanalyse: Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29), Status: Signiert, 30.11.23, 12:30.
 - Arterielle Blutgasanalyse: Täglich um 12:30, beginnt am 30.11.2023 12:30, endet nach 3 Tagen (03.12.2023 12:29), Status: Signiert, 30.11.23, 12:30.
- Pflege (Nursing):** 2 items:
 - Arzt informieren: Geplant am 30.11.2023 bei Bedarf, Status: Signiert, 30.11.23, 00:00.
 - Arzt informieren: Geplant am 30.11.2023 bei Bedarf, Status: Signiert - mit Bedingung, 30.11.23, 00:00.
- Allgemein (General):** No items are listed.

Zusammenfassung

- Die Bereitstellung extern verfasster Anordnungspläne für End-user eines KIS-Systems (ORBIS) wurde demonstriert
- Nach Definition der Formatkonversion und Mapping der verwendeten Entitäten auf Standardterminologien ist der weitere Ablauf automatisierbar
- CKP erlaubt die Entkopplung von anbieterspezifischer und KIS-seitiger Konfiguration und damit Flexibilität





**Vielen Dank für Ihre
Aufmerksamkeit!**

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LinkedIn



LIFE FLOWS THROUGH OUR SOFTWARE