# PHASE 1 AND FIH ONCOLOGY/HEMATOLOGY UNITS IN SWEDEN

Last update: 2025-04-11



#### SWEDEN, WORLD-CLASS EARLY PHASE CLINICAL TRIAL COUNTRY

- Sweden is an innovation leader in Europe, with highly attractive research systems, among countries with the highest number of international scientific co-publications and most cited / highly cited publications and having a high percentage of doctorate graduates in the healthcare sector.
- Sweden's four academic-based early phase clinical units are located in large academic comprehensive cancer centers (certified or under certification) renowned for performing high- impact cutting-edge scientific research, as shown by OECI/CCs evaluations.
- Early phase staff works closely with state-of-the-art pathology and precision medicine centers to allow fast and optimal
  patient match and, all early phase units collaborate with leading clinician-investigators specializing in a variety of tumor
  types.
- State of the art nuclear imaging for determination of drug distribution, receptor occupancy and drug pharmacodynamics.
- ATMP centers with JACIE accreditation.
- This unique ecosystem allows collaboration among the early phase network and other national and international networks and initiatives to ensure adequate patient recruitment.

#### SWEDEN'S FOUR EARLY PHASE CLINICAL UNITS IN CANCER

- COVER ALL PARTS OF SWEDEN
- 10.5 MILLION INHABITANTS

# National network between the University Hospitals NASTRO Nitverket för Universitetssjukhusens Prövningsenheter inom Onkologi

#### Uppsala

#### Gothenburg

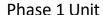


#### **Sahlgrenska University Hospital**

Phase 1 Unit

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#### **Uppsala University Hospital**



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#### Skåne



#### Skåne University Hospital

Phase 1 Unit

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#### **Karolinska University Hospital**

Phase 1 Units

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Stockholm

#### WHY CHOOSE SWEDEN?

#### **Collaborations**

Collaboration within national network NASTRO and a database for ongoing oncology and hematology trials at all hospitals

National registers and National patient overview, no lost to follow-up

Nordic Molecular Tumor Board and possibility to include international patients

National collaboration with pre-clinical experts from SciLifeLab

#### **Availability**

The insurance system guarantees all citizens advanced medical care. This setup ensures that a diverse patient population is included in clinical trials, representing all parts of the Swedish society

Patients are discussed at multidisciplinary conferences to identify possible treatment and available clinical trials

#### **Efficacy**

Quick data entry and high data quality since study coordinator enter data and respond to queries (not data managers)

Sweden is a cost-effective country for conducting studies. Hospitals charge for actual costs according to Swedish regulations

Overarching CDAs covering all study discussions with governmental hospitals

High level English proficiency. Translation of Cover Letter or CTIS data fields is not needed

Secured structure for local sourcing of IMP

Low drop out rate. Patients in Sweden exhibit a strong commitment and adherence to rules

High digital maturity in the whole population

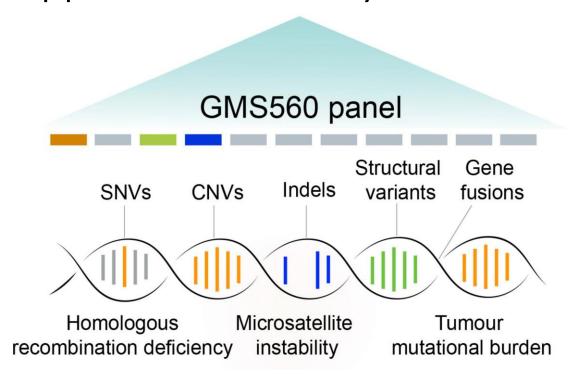
#### Regulatory

Strong commitment and adherence to regulations and agreements

Regular inspections from Swedish MPA to assure that routines and facilities maintain high quality

# BROAD MOLECULAR PROFILING AND VARIANT CALLING; MOLECULAR TUMOR BOARD FOR PATIENTS WITH ADVANCED CANCER ESTABLISHED IN ALL CENTRA

Genomic pipeline: from tumor analysis to treatment decision



Solid tumours

Genomic

Medicine

Sweden

Hematology |
Genomic Medicine Sweden

#### DESCRIPTION OF THE SWEDISH PHASE I UNITS

Specification	Karolinska	Sahlgrenska	Skåne	Uppsala
Comprehensive Cancer Center since year (OECI)	2020	2022	2022	Planned May 2025
Disease areas of main interest/expertise	All solid tumors All hematology Non cancer and healthy volunteers	All solid tumors All hematology	All solids All hematology	All solids All hematology Non cancer
Inhouse research council	Weekly	Biweekly	Biweekly	Biweekly
Conducted FiH trials since year	2002	2023	2018	2000
Number of treatment beds	17 beds for FiH. 60 additional beds for other phase I and later phases	2 dedicated beds for FIH-phase I in lead-lined room. 45 beds available for other phase I	3 dedicated inward beds for early phase trials	3 dedicated beds for FiH. 50 beds for other phase I and later phases
Latest inspection by Competent Authority (CA); Medical Product Agency (MPA) every 3rd year for FiH pre-approval	Jan 2025 (pre-approval since 2012)	Planned April 2025	TBD	Nov 2023
Available imaging	CT, MRI, PET-CT, PET- MRI, SPECT-CT, Bone Scan, ECHO	CT, MRI, PET-CT, PET- MRI, Bone Scan, ECHO/MUGA	On-site: CT, MRI, PET- CT, PET-MRI, Bone Scan, ECHO/MUGA Oncology dedicated: CT-scans/MRI	CT, MRI, PET-CT, PET- MRI, Bone Scan, ECHO/MUGA MR-Linac

#### DESCRIPTION OF THE SWEDISH PHASE I UNITS

#### In addition, all Units have:

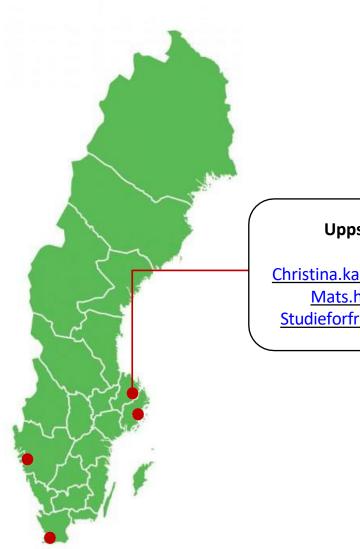
- Resources available 24/7 on call
- On site emergency room (ER) and intensive care unit (ICU)
- Availability to perform paired biopsies
- Time from request of biological sample to actual shipment of samples within or outside EU takes 2-3 days
- All equipment certified and controlled; Temperature logs for all refrigerator and freezers;
   Dedicated equipment for early Phase with controlled access
- MSA (Master Service Agreements) and WO (Work Orders) or Clinical Trial Agreements
- Site contracts as well as Biobank application will be done in parallel with the CTIS application
- Internal processes for contracting Lab/MRI/Eye clinic etc, costs will be included in the site contracts
- Separate Pharmacy Agreements needed
- High recruitment reliability for available slots. Internal follow-up
- For more details see Unit specific slide decks





#### **UNIT SPECIFIC SLIDES**

Uppsala University Hospital



#### Uppsala University Hospital Phase 1 Unit

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SAMPLE FOOTER TEXT

## TABLE OF CONTENT

- Introduction
- Team
- Description of the Unit
- Phase I studies performed, and patients included
- Area of expertise



#### INTRODUCTION

#### UPPSALA UNIVERSITET



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#### Name of the Phase I Unit:

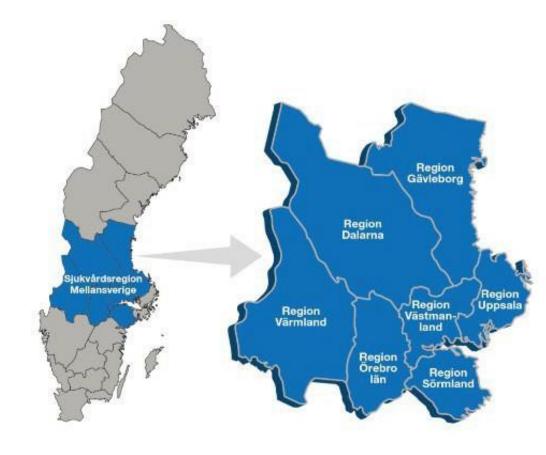
KFUE Phase I Unit

#### Name of Hospital:

Uppsala University Hospital

#### Brief history:

- Within Uppsala University Hospital, unique knowledge and the most advanced care is available. Every year more than 700 000 patient seek care at our hospital.
- FIH (First in Human) and Phase I studies have been conducted since 2000 within the Dept. of Oncology, Hematology and Endocrine Tumors. The Phase I Unit is today self-funding and has extensive experience in endocrine tumours and immunological trials as well as hematological and CAR-T trials, with JACIE accreditation for stem-cell transplants and CAR-T.
- Currently approximately 170 cancer trials are being conducted at KFUE in different phases. 18 are Phase I studies of which 5 is FIH.
- The department receives referrals from all of mid-Sweden with a population of 2.1 million inhabitants via regular regional Multi-diciplinary conferences. In Phase I studies patients are recruited from all of Sweden.



#### **TEAM**



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Simon Pahnke

Medical Director for KFUE and
Phase I

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Jenny Falkerby and Jacqueline Navia Thalin Study Nurses, Phase I Unit <a href="mailto:kfue@akademiska.se">kfue@akademiska.se</a>



Mattias Mattsson

Medical Director KFUE

Hematology

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#### WHY RUN A STUDY AT UPPSALA UNIVERSITY HOSPITAL!

- Uppsala University Hospital is a Centre of Excellence for Endocrine Tumors and is today one of the world leading centers for diagnosis and treatment for neuroendocrine tumors (NET's). Yearly 100 patients from the whole world is referred to the hospital
- Other areas where national referrals to the hospital occur; HIPEC, anal cancer, and adrenal malignancies, and head- and neck paragangliomas
- Collaboration with PET center for diagnosis with Pet Tracers and therapy as for ex Peptide radio receptor therapy (PRRT) is well established
- Extended experience with CAR-T trials since 2014.
- Groundbreaking preclinical research across the field of molecular biology, cancer genetics and immunotherapy
- Translation of preclinical research to clinical trials through close collaboration between basic and clinical scientists
- Nationally and internationally highly ranked research infrastructures
- A well-developed unit for conducting academic as well as company supported clinical trials phase I-III



SAMPLE FOOTER TEXT

#### DESCRIPTION OF THE UNIT

- The Unit has 10 experienced Phase I Investigators, and 2
   Medical Leads.
- Four Principal Investigators work within Hematology and 6 with Solid Tumors, all with experience from both early phase clinical trials and specific diagnose competence.
- The Unit has 18 nurses/coordinators, of which 6 are dedicated to the Phase I Unit. In addition, the Unit has 2 assistant nurses.
- The hospital has their own Pharmacy department with great clinical trial expertise. Also possible to use other Pharmacy if required

- The Unit's primary methods of recruitment is via referrals, often after case presentations at regional and national Multi-Diciplinary Conferences, and collaborations within mid-Sweden.
- To increase patient retention decentralized trials (DCT)/components can be utilized in the Unit. The department works with "satellite sites" in mid-Sweden and has the possibility to perform video calls with patients. Digital solution for consent feasible. Open to using other digital solutions.



#### NUMBER PHASE I STUDIES ONGOING

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase I (excl. FIH)	12	18	18	16	16	10
First In Human (FIH)	4	5	5	4	4	3

#### NUMBER OF PATIENTS INCLUDED

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase I (excl. FIH)	17	23	31	36	30	27
First In Human (FIH)	2	10	14	5	16	5



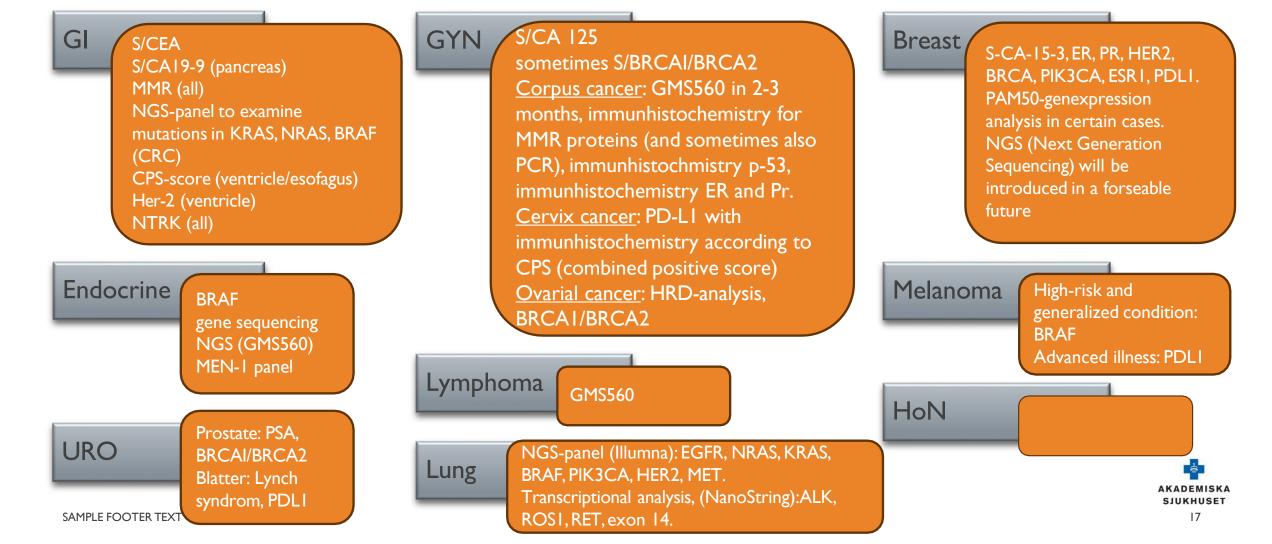
#### AREA OF EXPERTISE (UNIT)

- What specific methods can be performed at your unit?
  - Collaboration with <u>SciLifeLab</u> Uppsala with an extensive range of sampling capabilities
  - Collaboration with Genomic Medicine Sweden
  - Close collaboration with Uppsala Precision Medicine Center and ATMP-center
  - We have the knowledge and resources to perform <u>all</u> different types of clinical research within oncology and hematology
- Experience with Advanced Therapy Medicinal Products (ATMP) studies, CAR T, viruses and Tcells etc.

- Diagnose specific biomarker tests are done by default on newly diagnosed patients, and;
  - NGS is widely used and the GMS560 panel is implemented in clinical routine for solid tumors
  - Gene panel from GMS for myeloid malignances is clinical routine
  - Ongoing pilot project since several years for broad characterisation of lung, breast and ovarial cancers and full genomic sequencing of leukemia
  - Timelines to response 3-4 weeks in clinical routine

#### **BIOMARKERS**

#### - DONE BY DEFAULT ON NEWLY DIAGNOSED PATIENTS



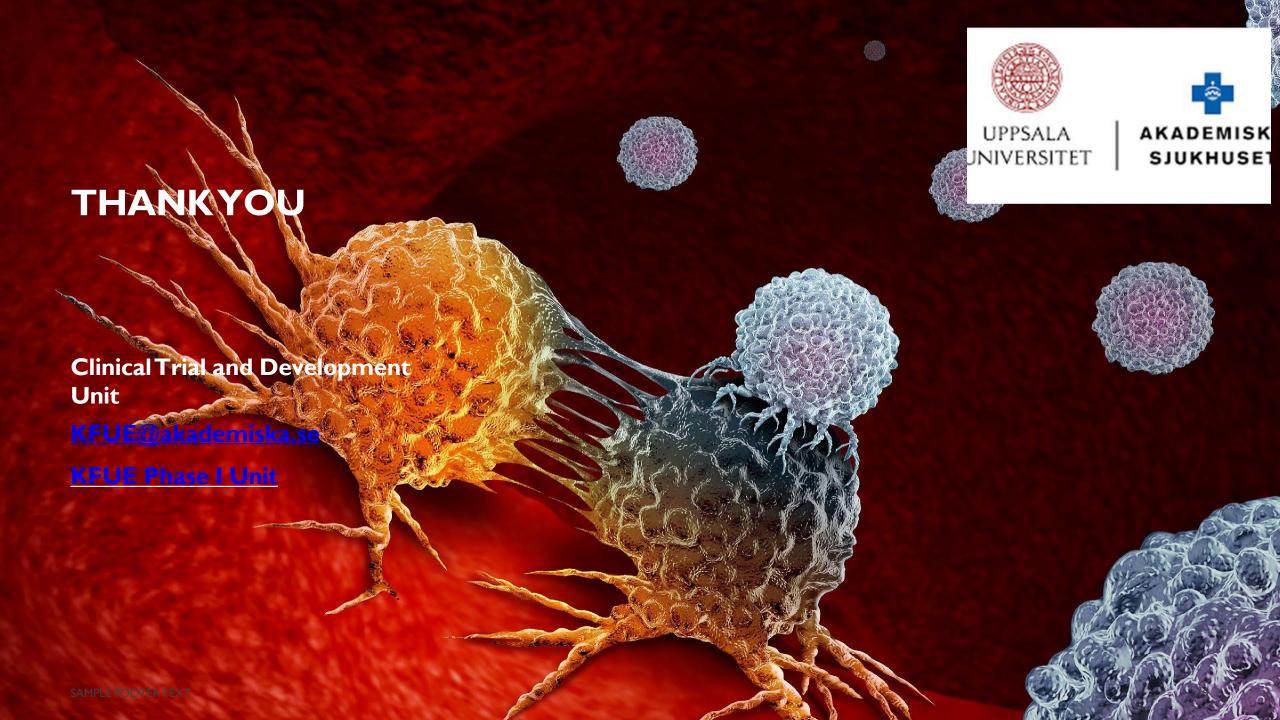
#### AREA OF EXPERTISE (PHYSICIANS)

- Connection with academic institution(s)/ networks/Life Science start-up and/or industry?
  - German Hodgkin Study Group
  - Nordic Lymphoma Group
  - Stichting European Myeloma Network
  - Hovon, Kancera
  - Lokon Pharma AB
  - BioInvent
  - Alligator Biosience
  - Elicera Therapeutics AB
  - Universities: University of Cologne, Aarhus
     University, Oslo University hospital and all major
     Swedish University hospitals



- Disease areas of main interest/expertise
  - Solid tumours including immunoncology, CAR-T,
  - Haematology
  - Endocrinological oncology, including PRRT
  - All novel therapies

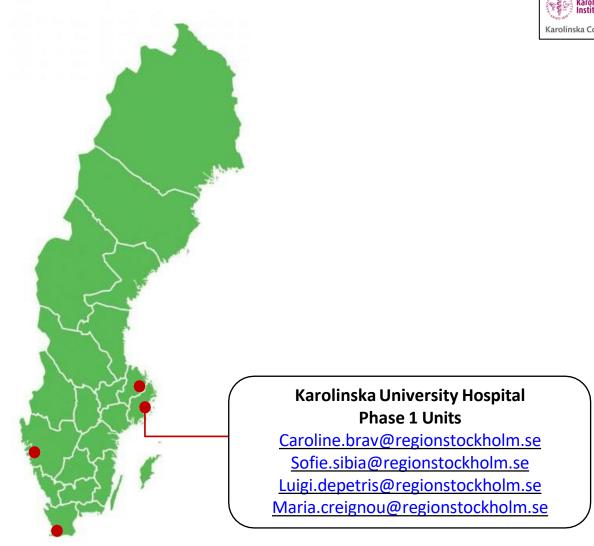






#### **UNIT SPECIFIC SLIDES**

Karolinska University Hospital





PHASE 1 UNITS STOCKHOLM (SWEDEN)

Department of Clinical Cancer Studies





KAROLINSKA

Karolinska Comprehensive Cancer Center

#### TABLE OF CONTENT

- Introduction
- Lead Phase 1 Units
- Team and patient recruitment
- Ongoing trials, and inclusion
- Molecular tumor boards
- Molecular inhouse testing
- Competence and Capabilities
- Area of expertise



#### INTRODUCTION

- Karolinska University Hospital
- Department of Clinical Cancer Studies
  - Phase 1 Unit Solna
  - Phase 1 Unit/Cancer Study Unit Huddinge
- Brief history:

  - Ranked as one of World s Best Specialized Hospitals One hospital at two sites with over 16 000 employees
  - Stockholm has over 2 million inhabitants

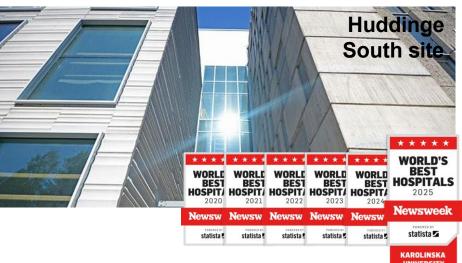
  - Highly specialized care for national and international patients A strong collaboration with Karolinska Institutet and SciLifeLab
  - State of the art nuclear imaging for determination of drug distribution, receptor occupancy and drug pharmacodynamics Over 400 ongoing clinical studies for cancer patients in different phases within oncology and hematology Over 40 ongoing Phase 1 cancer trials Dedicated unit for early oncology trials since 2010

  - Molecular Tumor Board run through the Phase 1 Unit since 2021



#### Karolinska Comprehensive Cancer Center





#### LEAD PHASE 1 UNITS



Caroline Brav

Head of Phase 1 Unit Solna Solid tumors and lymphoma or combined trials for solid tumors and hematology

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Sofie Sibia

Head of Phase 1/Cancer study Unit Huddinge Hematology (ATMP, myeloma, leukemia, MDS) and non cancer Sofie.sibia@regionstockholm.se



Luigi De Petris

Medical lead Phase 1 Units
Solid tumors
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Maria Creignou

Medical lead Phase 1 Units Hematology

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#### THE TEAM

- 22 highly-skilled investigators
  - 6 dedicated Phase 1 investigators working in the Phase 1 Units with internationally recognized expertise in oncology and hematology
  - 16 additional experienced investigators with Phase 1 competence within oncology and hematology available at site
- 16 experienced study nurses / study coordinators dedicated for early clinical trials
- 7 blood and tissue sampling coordinators

#### PATIENT RECRUITMENT

- Units' primary methods of recruitment;
  - Inhouse referrals, national and international referrals
- Around 20 referrals per week to Phase 1
  - 40% external
- Digital health solutions
  - Ongoing implementation of e-consent
  - Patient video calls available for secure online physician consultations

#### NUMBER OF ONGOING PHASE 1 CANCER TRIALS

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase 1 (excl. FIH)	26	39	37	30	25	20
First In Human (FIH)	14	18	14	10	7	6

#### NUMBER OF PATIENTS INCLUDED IN CANCER TRIALS

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase 1 (excl. FIH)	22	45	23	34	25	21
First In Human (FIH)	24	40	29	25	21	22

#### MOLECULAR TUMOR BOARDS

- Well-established National, Nordic and European clinical collaborations for genomicbased treatment recommendation and clinical trial inclusion
  - Bi-weekly local Molecular Tumor Board
  - Monthly Nordic Molecular Tumor Board
  - Weekly European Molecular Tumor Board with Cancer Core Europe (CCE) and CCE Phase 1 team
  - Karolinska International Patient Office (IPO) for crossborder patients with rare diseases or mutations



#### ROUTINE MOLECULAR TESTING AVAILABLE AT KAROLINSKA

Tumor Type	IHC	MOL
Lung	PD-L1	Oncomine Focus DNA/RNA
CNS		Oncomine Childhood
CUP		Oncomine Childhood, pilot project with whole genome sequencing (WGS) 2025
Colorectal	MSI/dMMR; HER2	Oncomine Solid DNA
Upper GI	MSI/dMMR; HER2; PD-L1; NTRK 1-3	Oncomine Solid DNA
Gyn	HRD	BRCA1/2, NGS for endometrial cancer 2025
Pediatric		WGS
Breast	ER, PgR, HER2, PD-L1	BRCA1/2, NGS in metastatic disease during 2025/2026
Sarcoma		WGS
Uro	PD-L1 (Bladder)	BRCA1/2 (Prostate)
H&N	PD-L1, HPV	
Melanoma	PD-L1	BRAFV600E
Myeloid malignancies (AML, MDS, MPN)		Cytogenetic RT-PCR RUNX1:RUNX1T1, CBFB:MYH11, PML:RARA In-house panel sequencing (~160 genes). WGS in AML/ALL 2025
Lymphoid malignancies	FISH BCL-2/ BCL-6 och C-MYC	GMS lymphoid panel in young patients and T-cell lymphoma
Plasma cell neoplasia		t(4;14), t(11;14), t(14;16), del(17p), del(1p) och dup(1q21) on CD138 sorted cells.

In-house broad NGS screening panel for phase 1 eligible candidates and within Cancer Core Europe screening program

#### COMPETENCE AND CAPABILITIES

- Experience across a broad range of early clinical trials
  - Diverse FiH, phase 0, ATMP, GMO
  - Dedicated Phase 1 Team with nationally/internationally recognised expertise
  - Integrated Hematology and Oncology within the same department
- Advisory capabilities for biotech and small pharmaceutical companies

Official price lists at <u>Forskningsprislistor (karolinska.se)</u>



#### CONNECTION WITH ACADEMIC INSTITUTIONS/ NETWORKS/LIFE SCIENCE START-UP AND/OR INDUSTRY

- Karolinska Institutet (KI)
- Karolinska Comprehensive Cancer Center
  - Accredited 2020, a joint venture between the hospital and Karolinska Institutet (KI)
- Cancer Core Europe member
  - A network of 7 leading European cancer centers: NKI, Gustave Roussy, VHIO, Heidelberg, Cambridge, INT Milano, KI
  - Molecular Tumor Board
  - Ongoing basket trial
  - Phase 1 collaboration
- Nordic MTB
  - A Nordic Molecular Tumor Board consisting of personnel from phase I units in Denmark, Finland, Norway and Sweden, performing early clinical trials in oncology

- SciLifeLab
  - State-of-the-art innovative multiomics and gene sequencing technology
- Karolinska ATMP-center
  - JACIE accredited, CAR-T, TCR, adoptive T-cell therapy, GMP-production
- Theranostic Trial Center Karolinska (TTCK)
  - Radiopharmacy; PET-tracers and PET/radio-ligands, receptor occupancy, GMP-production
- PET-Center KI
- Collaboration with biotech industry
  - In preclinical studies within the framework of the Phase 1 Unit
  - In an advisory capacity helping with study design



# THE PHASE 1 INVESTIGATORS PARTICULAR AREA OF EXPERTISE

- Jeffrey Yachnin; Uro- and Breast cancer
- Luigi de Petris; Lung cancer
- Maria Creignou; Hematology (including lymphoid malignancies)
- Maximilian Kordes; GI-cancer
- Oscar Wiklander; Breast cancer
- Lisa Liu Burström; Uro- and GI-cancer



#### DEPARTMENT OF CLINICAL CANCER STUDIES



- Phase 1 Unit Solna
- Phase 1 Unit/Cancer Study Unit Huddinge











Karolinska Comprehensive Cancer Center

#### **UNIT SPECIFIC SLIDES**

Sahlgrenska University Hospital

Sahlgrenska University Hospital
Phase 1 Unit

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### CLINICAL TRIAL UNIT CTU, DEPARTMENT OF ONCOLOGY, SAHLGRENSKA UNIVERSITY HOSPITAL



#### Sahlgrenska Comprehensive Cancer Centre

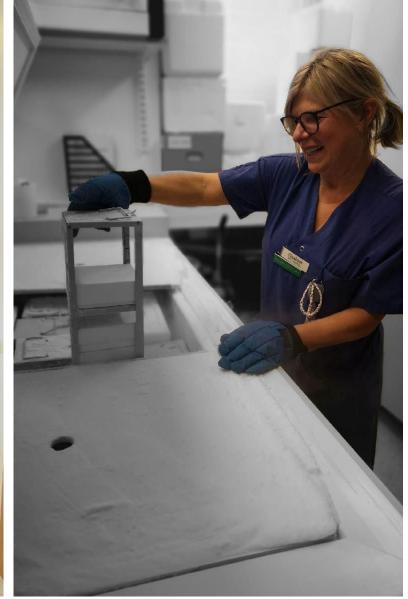




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- Introduction
- Team
- Description of the Unit
- Phase I studies performed, and patients included
- Area of expertise









#### INTRODUCTION

#### Name of the Phase I Unit:

Clinical Trial Unit CTU, Department of Oncology

#### Name of Hospital:

Sahlgrenska University Hospital

#### Brief history:

- As the largest hospital in Sweden (17.700 imployees) it offers best care and conducts world-class research, development, education and innovation for the benefit of patients. The hospital has internationally outstanding treatment offerings and has an accreditation as Comprehensive Cancer Center (CCC) since 2022.
- 1.7 million people are living in the area that can be referred to the hospital. In clinical trials subjects from all over Sweden can be included. Currently about 215 clinical trials in different phases within oncology. Hematology and surgery are performed. Strong Collaboration with Pediatric Clinical Trial Unit
- FIH (First in Human) and Phase I studies have been conducted since 2010 within the Department of Oncology. The Phase I Unit is self-funding and has extensive experience in early clinical trials







## **TEAM**



Manager Manager

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Edvard Abel Medical director

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Kajsa Oberg Holgersson Team leader

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Maria Fredriksson Financial Assistance

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# CLINICAL TRIAL UNIT CTU, OUR STRENGTHS

Sahlgrenska University Hospital is the first Nordic hospital to be certified Breast Cancer Center by EUSOMA

First Nordic center with ATMP within pediatric cancer

Assigned National specialized medical caregivers in several diagnosis. The Unit's primary methods of recruitment are own patients and referrals from colleagues in Scandinavia

Groundbreaking preclinical research across the field of molecular biology, cancer genetics and immunotherapy

Translation of preclinical research to clinical trials through close collaboration between basic and clinical scientists

Nationally and internationally highly ranked research infrastructures

Two well-developed units for conducting academic as well as company supported clinical trials phase I-II





# DESCRIPTION OF THE UNIT (1/2)

The Unit has 9 experienced Phase I Investigators within hematology and solid tumours and a Medical Lead Director.

The Unit has 16 research nurses/coordinators, of which 4 are dedicated to the Phase I Unit. In addition, the Unit has 2 assistant nurses.

Resources available for 24/7 on call.

Specificbeds in lead-lined room are available for FIH studies

50 treatment beds available for clinical trials at the department of oncology. On site Emergency Room (ER) and Intensive Care Unit (ICU).

The Unit's primary methods of recruitment is via referrals, often after case presentations at regional and national Multi-Diciplinary Conferences, and national collaborations.

Digital solution for consent feasible. Open to using other digital solutions.





# NUMBER PHASE I STUDIES PERFORMED (ONCOLOGY)

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase I (excl. FIH)	3	9	6	2	2	0
First In Human (FIH)	0	0	I	I	0	0

# NUMBER OF PATIENTS INCLUDED (ONCOLOGY)

Type of Study	Year 2024	Year 2023	Year 2022	Year 2021	Year 2020	Year 2019
Phase I (excl. FIH)	6	12	18	П	8	0
First In Human (FIH)	0	0	2	7	0	0

## HEMATOLOGY: 2 ONGOING TRIALS 2024





## AREA OF EXPERTISE

- What specific methods can be performed at your unit?
  - Collaboration with Sahlgrenska Center for cancer research with an extensive range of sampling capabilities and analyses.
  - Collaboration with Sahlgrenska Life
  - Collaboration with Genomic Medicine Sweden
  - Close collaboration with Sahlgrenska Precision Medicine Center and ATMP-center
  - Knowledge and resources to perform <u>all</u> different types of clinical research within oncology and hematology

- Diagnose specific biomarker tests are done by default on newly diagnosed patients, and;
  - GMS560 panel is available in clinical routine and for trials
  - NGS characterisation of lung, breast and ovarial cancers in clinical routine.
  - Timelines to response 3-4 weeks in clinical routine
- Experience with Advanced Therapy Medicinal Products (ATMP) studies, CAR T, vaccines and T-cells
- Strong research and collaborations in Immunotherapy and Radionuclide therapy





## **BIOMARKERS**

GI: MSIH, S/CEA, MMR, NTRK Ventrikel: HER2, EBV, CPS-score, NTRK Colorektal: NGS-panel to examine mutations in KRAS, NRAS, BRAFV600E, MSI

Pancreas: S/CA19-9 Esophagus: CPS, HER2, NTRK Prostata: PSA

Lung: NSCLC:

NGS-panel to examine mutations in EGFR, ALK, ROSI, BRAF, RET, Met exon 14 skipping, NTRK Headneck: PDLI CPS

Corpuscancer: MSIH

Ovarial: BRCA/HRD, GMS560 is under

Cervix: PD-L1-analys with CPS

Neuroendocrine:
BRAF, gene sequencing NGS
(GMS560), MEN-1 panel,
Chromogranin A

Glioma: MGMT, Fish, DNA and RNA mutation analysis

Breast:

oncocyte test, + genpanel BRCA, S-CA-15-3, ER, PR, HER2, PIK3CA, ESR1, PDL1. PAM50genexpression analysis in certain cases. NGS is under implementation

Lymphoma:

FACS, Immunohistochemistry, FISH, NGS, IGH/TCR

Melanoma: BRAFV600 (if negative: BRAFV600X, NRAS, NFI and Ckit with panel), PDLI





## THANK YOU!

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### Website

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- Sahlgrenska

Universitetssjukhuse:

Sahlgrenska Comprehensive Cancer Centre











# **UNIT SPECIFIC SLIDES**

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Skåne University Hospital
Phase 1 Unit

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## **EARLY PHASE CLINICAL TRIALS UNIT**

DIVISION **HEMATOLOGY**, **ONCOLOGY**, RADIATION PHYSICS SKÅNE UNIVERSITY HOSPITAL COMPREHENSIVE CANCER CENTER LUND, SWEDEN











## **EARLY PHASE - LEAD TEAM**



Head Early Phase Johan Olsson (Research Nurse)



Medical Director
Ana Carneiro
(MD, PhD, Associate
Professor)



# SKÅNE UNIVERSITY HOSPITAL COMPREHENSIVE CANCER CENTER



Comprehensive Cancer Centre (OECI)



ATMP Centre GMP facility (MPA)



Pathology
Precision Medicine
Centre



National Infrastructure for Biobanking



## **LUND UNIVERSITY & LUND UNIVERSITY CANCER CENTRE**

Top 100 universities (various rankings)

Dedicated cancer research environment (LUCC)

Strong national & international collaborations

Ground-breaking pre-clinical research in life sciences

## STRONG TRANSLATIONAL RESEARCH

Strong collaborations with clinicians

Highly innovative research: 60 spin-outs companies

Medicon Village: Industry & Academic collaboration

2,800 individuals, 180 companies







## DIVISION HEMATOLOGY, ONCOLOGY, RADIATION PHYSICS

**CAPTURE AREA** 

3 M (South)

TREATMENT AREAS

ALL

**NEW PATIENTS/YEAR** 

7,000

**REFERENCE CENTRE** 

For other geographical areas

**REFERRALS** 

All Swedish Hospitals

**FOREIGN REFERRALS** 

Possible (Sponsor)



## **EARLY PHASE CLINICAL TRIALS UNIT, LUND - SWEDEN**

#### **EXPERTISE**

FIH and Phase 1
Dedicated staff

#### **FACILITIES**

ward
Direct ICU access
Own CT/MRI machines
Dedicated
refrigerator/freezer

#### **EXPERIENCED**

Clinical Research Team

#### **TRACEABILITY**

Robust chain of custody of all samples (dedicated lab)

#### **REGULATORY COMPLIANCE**

SOPs
CTIS and Biobank
submission

#### **DEDICATED PHARMACY**

**D**edicated pharmacy team for IMP handling



## **EARLY PHASE TEAM**

# Dedicated early trial team - hematology and oncology







**4** Dedicated Phase 1 nurses

**2** Dedicated physicians/trialists

Partnered with leading physicians across specialties for expert support in every diagnosis.

Supported by an experienced CTU

34 nurses2 administratives2 assistant nurses3 laboratory scientists



## **OUR PRIORITY - PATIENT SAFETY FIRST**

#### **PATIENT SAFETY**

24/7 early phase in patient care

24/7 crash team support / emergency response team support

24/7 oncology / haematology on-call & consultant services

Oncology acute outpatient clinic

#### **SAFETY MONITORING**

Solid processes for safety monitoring

Electronic Journal System – access to any healthcare

No data loss, 100% post-study safety follow-up

No patient drop-outs



## **OUR COMMITMENT - SUCCESS OF EVERY TRIAL**

## **EFFICIENT ENROLLEMENT**

100% target enrollement

Timely First Patient In

## **QUALITY OF DATA**

Accurate data

Real-time data collection (data capture within 24 hours dosing)

Low query volume & prompt query resolution

Adherence to trial timelines

#### TRIAL ENGAGEMENT

Close collaboration with sponsor

100% attendance safety meetings



## **EARLY PHASE WORKFLOW**

- Singel Point of Contact (all feasibilities)
- Start-up team
- Limited internal committees
- Support during CTIS application
- Support during local contract negotiation and start-up
- Parallell negotiation of contract (during CTIS evaluation)
- 100 Days Goal (from Protocol Receipt Completion to site-activation)



# **WORKING FLOW - FAST TRACK**

# ONE POINT OF CONTACT

For all early-phase feasibilities and start-up work



Feasibility

7 working days

Scientific Committee Evaluation

Meets every 2 weeks

Clinical Trial Office

Start-up in parallel with CTIS submission

Coordinating Nurse

SIV as soon as CTIS approved



## **ALIGNED RESPONSABILITY AND AUTHORITY**

- Dedicated staff with full Phase 1 focus
- Weekly protocol review meetings (PI and coordinators)
- Weekly follow-up of accrual, toxicity, responses etc.
- Regular grand rounds (clinic) to discuss new protocols
- Regular communication between Early Phase and chairs/Lead Physicians
- Molecular reflex testing as per national guidelines (GMS560 on demand)



## **OUR EXPERTISE**

#### **IMMUNOTHERAPIES**

Monoclonal antibodies, bi- and trispecific, anibody fragments

T-cell engagers (& antibody fragments)

Intratumoral treatments (oncolityc virus therapy)

#### **ATMP**

Cell therapy, CAR-Ts (first patient in Sweden)

Gene therapy

Vaccines (mRNA)

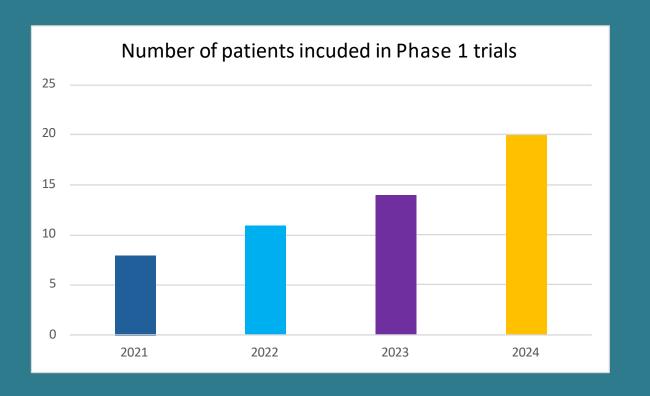
Intratumoral treatment (virus)

SMALL MOLECULES (& MOLECULAR MARKERS)
ANTIBODY DRUG CONJUGATES & RADIO-IMMUNOCONJUGATES
Expertise in RNA-therapeutics



## **TRACK RECORD**

# Increased number of early phase trials Increased inclusion and broader tumor type inclusion





# **CONTACTS**

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