




# What is the European Standard of Clinical Practice (ESCP) project?

Advance your knowledge – Gold webinar series

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# What is the European Standard of Clinical Practice (ESCP) project?

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1. Introduction
2. Patient Advocate's role
3. Showcase brain tumour group

#CCIEGOLD  
WEBINARS

# ESCP – whaaaaat?...

## 1. BACKGROUND AND RATIONALE

Non-Hodgkin Lymphoma (NHL) is the fourth most common subtype of malignancy diagnosed in children and adolescents. The most prevalent histological subtypes of NHL of childhood and adolescence are Burkitt Lymphoma (BL), T- and B-cell (BCL), Anaplastic Large Cell Lymphoma (ALCL) and Diffuse Large B-Cell Lymphoma (DLBCL) accounting for 48%, 21%, 10% and 6% of all pediatric NHL, respectively.

The following paragraphs summarize treatment strategies for the 3 main subtypes of NHL in childhood and adolescence (BL, mature aggressive B-cell NHL, and ALCL) including relevant results of previous trials conducted by international study groups.

**1.1 Lymphoblastic Lymphoma**  
Lymphoblastic lymphoma in children and adolescents develops from T-cell (75%) and precursor B-cell lymphocytes (25%). Both LBL subtypes are treated according to the same treatment strategy. The following table summarizes treatment results from trials in pediatric patients with LBL.

Trial	Age	Stage	Treatment	No. pts	HRFS	Reference
LMT81	0y (0-15)	I-IV	mod. LSA2-L2	64	75.3%	Patte et al. 1992 <sup>1</sup>
CCO502	0y (0-15)	I-IV	mod. LSA2-L2 vs ADCOMP	143	74% 64%	Tubergen et al. 1995 <sup>2</sup>
FOO8704	10y (5-15)	III/IV	L-Asp vs L-Asp +	83 84	94.0% 78.5%	Arnlyon et al. 1999 <sup>3</sup>
NHL-BFM90	0y (1-16)	I-IV	ALL-BFM	165	90%	Reiter et al. 2000 <sup>4</sup>
NHL-BFM95	0y (0-15)	III/IV	ALL-BFM	169	78.3%	Burkhardt et al. 2007 <sup>5</sup>
EORTC8881	0y (0-16)	I-IV	ALL-BFM	119	78.3%	Lymbroek et al. 2008 <sup>6</sup>
COG Pilot	n.d.	III/IV	mod. LSA2-L2	65	78.6%	Abrownitch et al. 2008 <sup>7</sup>
COG A9701	10y	III/IV	NHL-BFM95 MTX, wio HDMTX, intensification wio intensification	total 257 8544 8344 8344	95.4% 83.4% 83.4%	Abrownitch et al. 2008 (Abstract ASH 2008) <sup>8</sup>
LNH92	0y (0-116)	I-IV	mod. LSA2-L2	56	99.0%	Pillon et al. 2009 <sup>9</sup>
St. Jude 13	n.d.	III/IV	T-ALL	41	83%	Sandlund et al. 2000 <sup>10</sup>
POG 9404	50% <10y	III/IV	mod. DFCl ALL with HDMTX, wio HDMTX	137 66 71	82.4% 88.4%	Asselin et al. 2011 <sup>11</sup>
A 5/71	>12mo	I-II	CCG-BFM	56	90%	Termeulen et al. 2012 <sup>12</sup>
EURO-ILB 02	0-21y	I-IV	NHL/ALL-BFM 90 Deva (10mg/m <sup>2</sup> ) vs Pred	319 88 88	82.2% 84.4% 84.4%	Landmann et al. 2017 <sup>13</sup>
EORTC8691	n.d.	I-IV	mod. BFM 90 Deva (8mg/m <sup>2</sup> ) vs Pred (80mg/m <sup>2</sup> )	37 37	85% 81.0%	Uyttebroek et al. 2012 <sup>14</sup> (Abstract)
SPOP LMT95	10.5y	I-IV	mod. BFM	79	85%	Bergeson et al. 2015 <sup>15</sup>

Lymphoblastic lymphoma shares common morphological, immunophenotypic and clinical characteristics with acute lymphoblastic leukemia (ALL). Thus, the therapeutic approach in Europe is

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## TABLE OF CONTENTS

Table of contents	2
List of abbreviations	4
1. Background and Rationale	6
1.1 Lymphoblastic Lymphoma	7
1.2 Mature Aggressive B-Cell Lymphoma/Leukemia	8
1.3 Anaplastic Large Cell Lymphoma	12
2. Patient Group and Diagnostics	14
2.1 Diagnostic Criteria	14
2.1.1 Classification of NHL	14
2.1.2 Diagnostic approach and surgery	15
2.1.3 Processing of tissue and cell specimens	16
2.1.4 Initial diagnostics	16
2.1.5 Definition of organ involvement	17
2.1.6 Staging	18
3. Treatment details	20
3.1 Lymphoblastic lymphoma	20
3.2 Mature aggressive B-cell lymphoma/leukemia	22
3.2.1 Therapeutic groups and treatment schemes according to the NHL-BFM concept	22
3.2.2 Therapeutic groups and treatment schemes according to the European Intergroup for Children Non-Hodgkin Lymphoma (ECONHL) concept	25
3.3 Anaplastic Large Cell Lymphoma	28
3.4 Assessments during treatment	29
3.5 Summary of known adverse events, treatment recommendation and dose modifications	30
3.5.1 Cyclophosphamide	30
3.5.2 Cytarabine (ARA-C)	30
3.5.3 Daunorubicin and Doxorubicin (Adriamycin)	30
3.5.4 Dexamethasone, Prednisone and Prednisolone	31
3.5.5 Etoposide (VP-16)	31
3.5.6 Ifosfamide	31
3.5.7 6-Mercaptopurine	32
3.5.8 Methotrexate	32
3.5.9 PEG asparaginase	33
3.5.10 Rituximab	34
3.5.11 Thioguanine	34
3.5.12 Vinorelbine, Vincristine and Vincetabine	34
3.6 Other dose Modifications	34
3.6.1 Dose modifications for infants	34
3.6.2 Dose modifications for obese patients	35
3.6.3 Dose modifications for patients with chromosomal breakage syndromes	35
3.6.4 Pregnancy	35
3.7 Initial Emergencies	35
3.7.1 Mediastinal tumor	35

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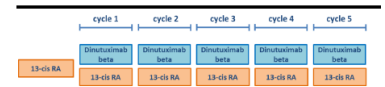
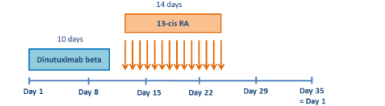


Figure 7. Maintenance cycle overview



**8.1 Treatment schedule**  
Each complete dinutuximab beta + 13-cis-RA cycle will last 35 days.  
13-cis-RA  
Patients will receive six cycles of 13-cis-RA.

The first cycle will be given prior to the first immunotherapy cycle at least one week after the end of radiotherapy.

The other five cycles will start 24 hours after the completion of the dinutuximab beta continuous infusion.

- Each cycle consists of 160 mg/m<sup>2</sup>/day 13-cis-RA divided equally given orally twice a day for 14 days
  - Patients unable to swallow 13-cis-RA capsules should receive a dose of 200mg/m<sup>2</sup>/day
- Suggested Supportive Care for 13-cis-RA**
- Topical vitamin E should be applied to the lips twice a day during 13-cis-RA therapy if chelitis develops.
  - Patients should avoid direct sun exposure while on 13-cis-RA.
  - Patients should avoid exposure to vitamin A products during 13-cis-RA therapy.

**Criteria prior to each Cycle of 13-cis-RA**

- Total bilirubin  $\leq 1.5 \times$  normal, and ALT  $\leq 5 \times$  normal.
- SOS, if present, should be stable or improving.
- Skin toxicity  $\leq$  grade 1

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## 3.3 Summary of known adverse events associated with treatment recommendation

- 3.3.1 Steroids (Prednisone, Prednisolone)**
- Arterial hypertension
  - Hyperglycemia
  - Pancreatitis
  - Increased susceptibility to infections
  - Mood changes and psychotic reactions

- 3.3.2 Vinblastine**
- Hematologic toxicity
  - Neuropathic pain
  - Vocal cord paralysis
  - Foot drop, paresis
  - Jaw pain
  - Constipation or ileus

- 3.3.3 6-mercaptopurine**
- Hematologic toxicity
  - Hepatic toxicity

## 3.4 Dose Modifications and delays

**3.4.1 Dose modifications for age and body weight**  
For children weighing less than 10 Kg:  
Prednisone (PRED): 1.5 mg/kg/day in three divided doses  
Vinblastine (VBL): 0.2 mg/kg/dose  
6-mercaptopurine (6-MP): 1.7 mg/kg/day in a single dose

## 3.4.2 Dose modifications for toxicity

- 3.4.2.1 Steroids**
- Hypertension:  
Dose should not be reduced. Sodium restriction and anti-hypertensives should be employed in an effort to control hypertension. Avoid calcium channel blockers due to their potential prothrombotic effect.
  - Hyperglycemia:  
Do not modify dose for asymptomatic elevations of amylase and/or lipase. Discontinue steroids, except for stress doses, in the presence of hemorrhagic

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# Question

- **Why do we need ESCPs?**

# ESCP Project's Background & Aims

## ▪ BACKGROUND:

- Issue to solve: No harmonised standard treatment recommendations for Paediatric Cancer across Europe outside of often complex randomised front-line protocols
- Launched in October 2019: in an ERN PaedCan and SIOPE CRC stakeholder working session together with parent and patient representatives and colleagues from widening countries.

## ▪ AIMS:

- to develop and approve clinical recommendations reflecting **current best practice for each common childhood cancer type**
- To provide Europe wide recommendation in all areas where no frontline trials are currently open and shall be updated when new evidence-based standards are established
- To set the front-line childhood cancer standards and built trust across European landscape
- To foster collaboration and twinning activities to upscale skills in state-of-the-art diagnostics, medical interventions & care including psychosocial aspects

# Question



- **What are they good for?**

# *Role of the ESCP Documents*

1. Foster Equal Standards across Europe
2. To be used when no randomised frontline trial is open in respective countries – whatever the reason

# Question



- **Who makes them?**
- **Who is the target group?**



# Expectations for the ESCP Project

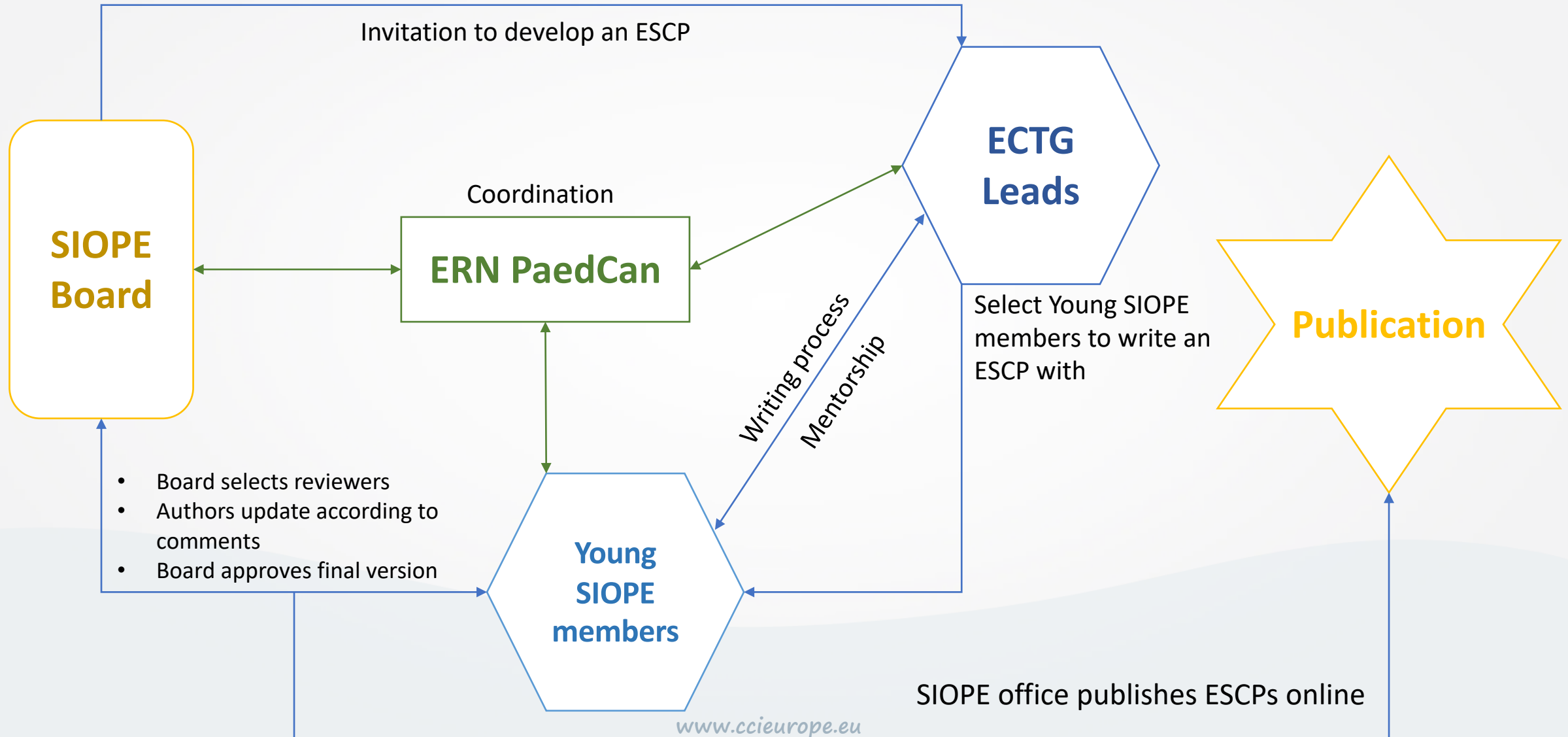
- **Responsibility and Ownership:**  
remains with the respective European Clinical Trial Group
- **Endorsement:**  
resulting ESCP guidance protocols are being endorsed by SIOPE and ERN PaedCan
- **Benchmark:**  
ESCPs will be of particular value in providing a benchmark for our Widening Countries
- **Transparency and dissemination:**  
the ESCP protocols are being made available online to provide important information to paediatric haemato-oncologists, patients and families in situations where currently, standard best clinical practice is not available
- **Policy:**  
ECSP protocols may become an important tool when negotiating with healthcare decision makers at the national and international level

# Question



- **How are they developed?**

# ESCP Development Cycle



# Question



- **How to get access to the ESCPs?**

# Achievements

- SIOPE and ERN PaedCan agreed on a disclaimer
  - General disclaimer on the front page of each ESCP to underline that the ESCP guidance documents are not clinical trial protocols and to clarify the responsibility of the users
- SIOPE has developed a secured online solution for making the ESCPs available for the community and the ESCPs which are already online (SIOPE Board review completed)

# Password protected access

The image displays two overlapping browser windows. The left window, titled 'paedcan.ern-net.eu', shows the 'European Reference Networks' website. The 'ESCPs' menu item is highlighted. The main content area lists protocols delivered in 2021 and planned for 2022.

The right window, titled 'siope.eu', shows the SIOPE website. The user profile for Zoltán Dobai is visible, along with a list of documents.

**paedcan.ern-net.eu**

European Reference Networks

Home About Background Education E-Health **ESCPs** Community News Dissemination Intranet

The following protocols were delivered in 2021:

- High-Risk Neuroblastoma (available on the SIOPE Portal)
- Pediatric-Onset Langerhans Cell Histiocytosis (available on the SIOPE Portal)
- Non-Hodgkin Lymphoma of Childhood and Adolescence (available on the SIOPE Portal)
- Acute Lymphoblastic Leukemia (ALL) in Children and Adolescents (available on the SIOPE Portal)
- Acute Myeloid Leukemia (AML) in Children and Adolescents
- Adrenocortical tumours in children and adolescents (available on the SIOPE Portal)
- Nasopharyngeal carcinoma in children and adolescents (available on the SIOPE Portal)

Protocols in development – for delivery Q4 2021:

- SIOPE European Osteosarcoma Study Group
- European Soft Tissue Sarcoma Group EpSSG
- SIOPE European Ewing Tumour Consortium
- SIOPE – Low & Intermediate Risk Neuroblastoma
- SIOPE European Brain Tumour Consortium
- SIOPE- Retinoblastoma Group
- SIOPE- Renal Tumour Study Group
- SIOPEL SIOPE-Epithelial Liver Tumour Study Group
- SIOPE Expert Group (European Cooperative Study Group on Paediatric Cancer)
- Familial Leukaemia

Planned & Scheduled for delivery Q2 2022:

- EHL European Hodgkin's Lymphoma Consortium
- Germ Cell Tumours
- EWOG- MDS (European Working Group of MDS in Childhood)

We would like to thank the Young SIOPE Members, CRC Mentors, the ECTGs

**siope.eu**

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SIOPE  
SIOPE Europe  
the European Society for Paediatric Oncology

Search

Zoltán Dobai  
Regular Member  
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Membership Number: T7wpYp

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Pages

Welcome to the SIOPE Intranet

SIOPE Europe Communication Toolkit

European Standard Clinical Practice (ESCP) protocols

Documents

- ESCP: ACUTE LYMPHOBLASTIC LEUKEMIA (ALL)
- ESCP: ADRENOCORTICAL TUMORS
- ESCP: NON-HODGKIN LYMPHOMA OF CHILDHOOD AND ADOLESCENCE
- ESCP: HIGH-RISK NEUROBLASTOMA
- ESCP: NASOPHARYNGEAL CARCINOMA IN CHILDREN AND ADOLESCENTS
- ESCP: PEDIATRIC-ONSET LANGERHANS CELL HISTIOCYTOSIS

# Question



- **How many are there already?**

# Achievement: 23 ESCP launched!

- Acute Lymphoblastic Leukemia (ALL) in Children and Adolescents
- Acute Myeloid Leukemia (AML) in Children and Adolescents
- BTG Overview Document
- Medulloblastoma
- Childhood Intracranial Germ Cell Tumours
- Rare CNS embryonal and sarcomatous tumours and Astroblastoma, MN1-altered
- Ependymoma
- Craniopharyngioma
- Low Grade Glioma
- Advanced intraocular unilateral retinoblastoma: non-conservative management
- Adrenocortical tumours in children and adolescents
- Salivary Gland Carcinoma in Children and Adolescents
- Nasopharyngeal carcinoma in children and adolescents
- Pleuropulmonary Blastoma in Children and Adolescents
- NUT carcinoma
- Osteosarcoma
- Standard Clinical Practice Recommendations for Ewing Sarcoma
- Pediatric-Onset Langerhans Cell Histiocytosis
- European Standard Clinical Practice Recommendations for Non-Hodgkin Lymphoma of Childhood and Adolescence
- High-Risk Neuroblastoma
- Low-risk NBL
- Rhabdomyosarcoma
- Towards European Standard Clinical Practice (ESCP) guidance for individuals with familial leukemia

- 2021
- 2022
- 2023





# Question



- **How can patient advocates become aware and familiar with individual ESCPs?**

# ESCP Webinars



- Initiated by Andishe Attarbaschi and Ruth Ladenstein as part of the ERN PaedCan Educational Program
- The ESCP webinars accompany the ESCP documents
- They provide a summary of the information contained within them

# Format

- Duration approx. 1 hour, incl. Q&A/discussion round
- Presented by Young SIOPE colleagues and senior author
- The webinars are open to everyone for registration
- No fees are implemented
- Targeted at physicians who would like to get an introduction to the ESCP documents

# Availability

- The recordings of previous webinars, the slides and registration for upcoming webinars are available on the ERN PaedCan website

<https://paedcan.ern-net.eu/the-escp-project/escp-webinars/>

# Availability

- Acute Lymphoblastic Leukemia
  - Presented by: Mirella Ampatzidou (Greece), Giasomo Gotti (Italy) and Janine Stutterheim (The Netherlands), Mentors Carmelo Rizzary (Italy) and Tomasz Szczepanski (Poland)
- High-Risk Neuroblastoma
  - Presented by: Claudia Pasqualini (France), Mentor Ruth Ladenstein (Austria)
- Nasopharyngeal Carcinoma
  - Presented by: Tristan Römer (Germany), Mentor Tal Ben-Ami (Israel)
- Medulloblastoma
  - Presented by: Inês Alves (Portugal) and Sandra Jacobs (Belgium), Mentor Simon Bailey (UK)
- Adrenocortical Tumours
  - Presented by: Marta Martos Rodriguez (Spain) and Paraskevi Panagopolou (Greece), Mentor Calogero Virgone (Italy)
- Pleuropulmonary Blastoma
  - Presented by: Maria Kourti (Greece) and Arianna Tagarelli (Italy), Mentor Gianni Bisogno (Italy)
- Non-Hodgkin Lymphoma
  - Presented by: Vasiliki Tzotzola (Greece) and Paula Perez (Spain), Mentor Andishe Attarbaschi (Austria)
- Langerhans Cell Histiocytosis
  - Presented by: Karel Svojgr (Czechia), Mentor Milen Minkov (Austria)

# Question



- **Is there anything else important around ESCPs?**

# ESCP Registry

This registry was developed to capture data regarding the use and impact of [European Standard Clinical Practice \(ESCP\) Guidance Documents](#) across Europe, especially in Widening Countries\*. It captures data on the availability of treatment protocols and drugs recommended in the ESCP guidance documents.

Data entered in this registry is pseudonymized via the most up to date version of the EUPID system and not publicly searchable. Adherence to the most up-to date security standards is a core tenant of this project.

No patient-identifying data is stored in this registry.

The data will be stored in secured data hosting centres, located within Europe.

*\*Widening countries as defined in HORIZON2020: Bulgaria, Croatia, Cyprus, Czechia, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia and Slovenia*

# ESCP Registry

- The expected number of participating centers is approximately 340, from geographical Europe. All institutions, which treat childhood cancer cases, will be able to participate.
- The registry should not be competing with randomized clinical trials
- A rough estimate would put the number of patients to be included at around 4000-8000\*

\*based on cancer incidence rates from the European Cancer Information System ECIS



# Question



- **What's next?**

# ESCP Registry

- Ready for release (pending final validation checks)
- Specific modules available at release:
  - Acute Lymphoblastic Leukemia
  - CNS Germ Cell Tumour
  - High Risk Neuroblastoma
  - Langerhans Cell Histiocytosis
  - Medulloblastoma
  - Non-Hodgkin Lymphoma
  - Retinoblastoma
  - Craniopharyngioma
  - Adrenocortical Tumors
  - Salivary Gland Carcinoma
  - Nasopharyngeal Carcinoma
  - Pleuropulmonary Blastoma
  - Low-risk Neuroblastoma
  - NUT carcinoma

*Thank you!*

## 2 Questions for Lejla

- **How can patient advocates contribute to the ESCP project?**  
→ To disseminate and give feedback to the ESCPs

## 2 Questions for Lejla

- **What is their specific role?**

→ As reviewers, patient advocates are part of the ESCP development cycle

## 2 Questions for Lejla

- **Why is it important that also patient advocates are aware of the ESCPs?**
  - to make sure physicians locally are aware and using it (as tool to support them in their work); patient advocates need to understand them so we can support families if they have questions reg. the treatment protocols/procedures

## 2 Questions for Lejla

- **Are ESCPs accessible to patients?**

→ Not to individual patients, but to specific patient advocates (ePAGs, National

Contact Points within ERN PaedCan)

*Thank you!*

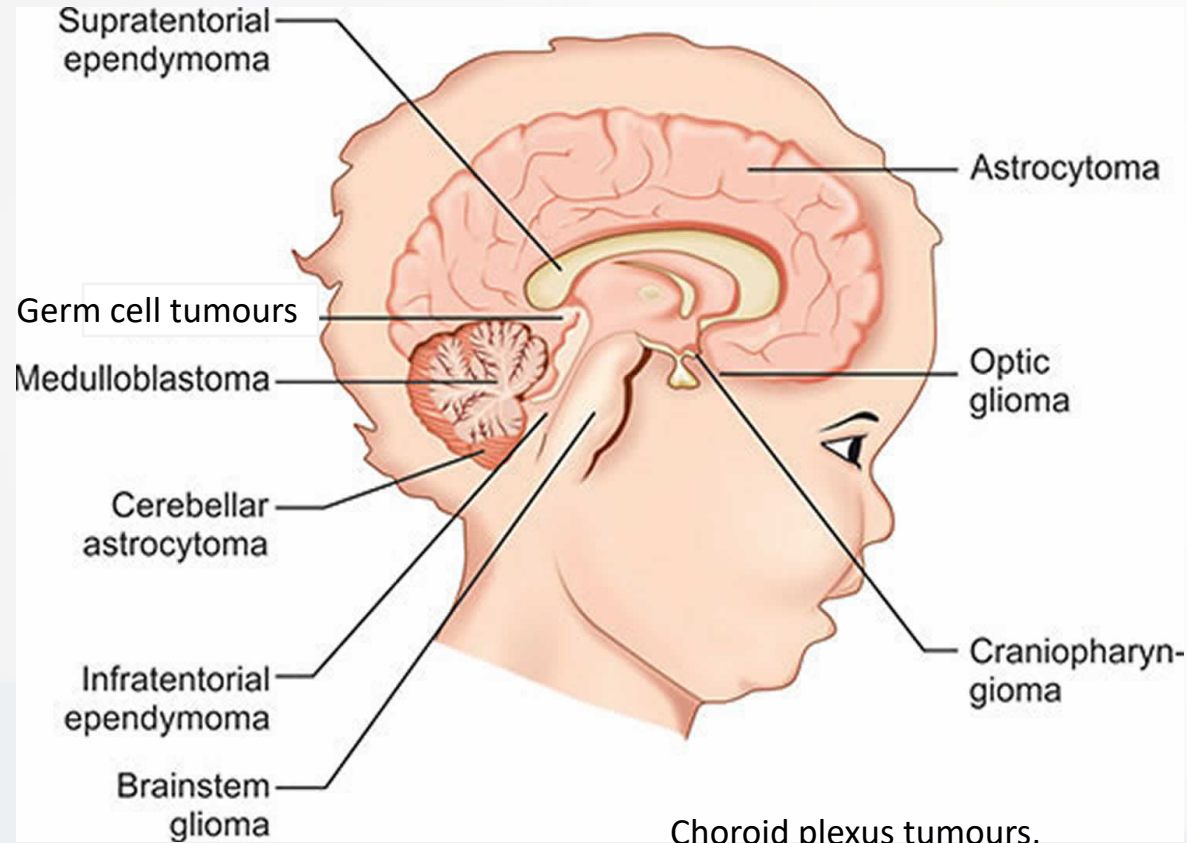


# Question to Maria



- **Can you please explain how a new ESCP is created, what is in it, and how to apply it using the Brain Tumor example.**

# ESCPs of the Brain Tumour Group (BTG)



Spinal tumours:  
ependymoma, low  
grade glioma

Choroid plexus tumours,  
pneoblastoma, high grade glioma, rare  
embryonal and sarcomatous tumours

1. General roadmap
2. Entity-specific guidelines

# ESCP BTG – Members

- Steering committee
  - Barry Pizer (UK)
  - Stefan Rutkowski (GE)
  - Katrin Scheinemann (CH)
  - Maria Otth (CH)
- 1-5 Experts of each tumour working group
- 2-4 Young SIOPE members




# ESCP BTG – General Roadmap

Guidance and “must haves” valid for all entities

- Background and rationale
- Discipline Working Groups

Brain Tumour Group Standard Clinical Practice document



**SIOP Europe**  
The European Society for Paediatric Oncology

**BRAIN TUMOUR GROUP**

European Reference Network  
for rare or low prevalence complex diseases  
Network Paediatric Cancer (EOP-PC)

*EndNote: Essential Medicine Converted*

**STANDARD CLINICAL PRACTICE RECOMMENDATIONS**

**BRAIN TUMOUR GROUP**

**OVERVIEW AND DISCIPLINE GROUPS**

This summary has been developed by:  
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Disclosure:  
This document aims to provide a clinical practice guideline for the treatment of CNS tumours in children and adolescents in Europe. The treating physician remains responsible for the application of any procedures and treatment to children and adolescents diagnosed with a CNS tumour.

# ESCP BTG – Disciplines

- Imaging
- Neurosurgery
- Neuropathology
- Radiotherapy
- Endocrinology
- Neuroophthalmology
- Quality of Survival

Brain Tumour Group

Standard Clinical Practice document



EndNote: Essential Medicine Converted

STANDARD CLINICAL PRACTICE RECOMMENDATIONS

**BRAIN TUMOUR GROUP**

**OVERVIEW AND DISCIPLINE GROUPS**

This summary has been developed by:

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# ESCP BTG – Content of Disciplines

- Background
- Role in paediatric oncology
- Institutional requirements
- Essential quality parameters
- Contact centers/ networks
- Summary
- *Individual sub-chapters*

## Summary

*(The below mentioned table just serves as an example and is not complete)*

Must have
All imaging must be performed according to the SIOPE-BTG neuroimaging protocol
Pre-OP MRI plus contrast must be available for all patients
Early post-OP MRI plus contrast must be available for all patients within 72h post-OP even in ventilated patients
Desirable
Don't do
Do not use CT for standard brain imaging in any childhood cancer tumour

# *ESCP BTG - Entity-specific guidelines*

- Low grade glioma
- High grade glioma
- Medulloblastoma
- Craniopharyngioma
- Germ cell tumors
- Ependymoma
- ATRT
- Choroid plexus tumours
- Pineoblastoma
- Rare embryonal and sarcomaous tumors

# ESCP BTG – Content of Working Groups

## Table of contents

<b>1. Background and Rationale .....</b>	<b>2</b>
1.1 Background .....	2
<b>2. Patient Group .....</b>	<b>2</b>
2.1 Diagnostic Criteria .....	2
2.1.1 Imaging .....	2
2.1.2 Histopathology .....	2
2.1.3 Molecular pathology .....	2
2.1.4 other .....	2
<b>3. Treatment Details .....</b>	<b>2</b>
3.1 Treatment .....	2
3.2 Assessments .....	2
<i>Use of tables is encouraged</i> .....	2
3.3 Summary of known adverse events .....	2
3.4 Dose Modifications and delays .....	2
3.5 Supportive Treatment .....	2
3.6 Concomitant Medication .....	2
3.7 Patient Follow Up .....	2
<b>4. Reference List .....</b>	<b>2</b>
<b>Appendix 1 - Tumour Staging .....</b>	<b>2</b>



# ESCP BTG – Output

- General roadmap
- 6 (8)/10 Standard of Care documents available
  - Low grade glioma
  - High grade glioma
  - Medulloblastoma
  - Craniopharyngioma
  - Germ cell tumors
  - Ependymoma
  - ATRT
  - Choroid plexus tumours
  - Pineoblastoma
  - Rare embryonal and sarcomaous tumors
- EJC PO as series → publicly available

# Take home messages



- The ESCP Project aims to develop approved clinical recommendations that reflect current best practices for each common childhood cancer type.
- The goal is to improve outcomes and increase childhood cancer survival, and quality of life by providing these benchmarks for best practice with a written recommendation for best standard treatments that can be used as a benchmark where no national recommendations or clinical trial options are available.
- These expert-endorsed recommendations aim to improve access to best standard treatments for all children with cancer throughout Europe and hold the potential of reducing inequalities in childhood cancer outcomes across Member States.
- Patient Advocates have a key-role
  - Give feedback on new ESCPs from the patient perspective
  - Advocate locally for implementation of ESCPs in treatment centres
  - help ensure proper use of the ESCPs in their countries
- Patient Advocates have to be familiar with ESCPs to support families in case they have questions

Any further questions?

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# Give us your Feedback

<https://forms.office.com/e/jcewzb0qS6>

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