

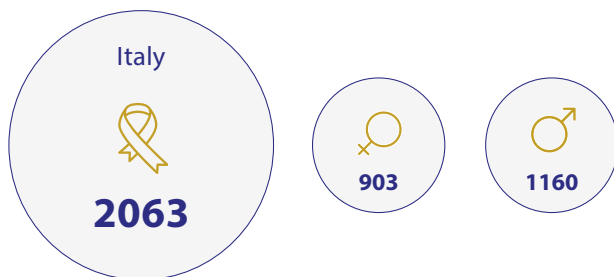
# Childhood Cancer Country Profile

ITALY 

## 1 – Epidemiology

### NUMBER OF CASES: 2063

In 2022, an estimate number of 2063 patients aged 0 to 19 years were diagnosed with cancer: 903 girls and 1160 boys.



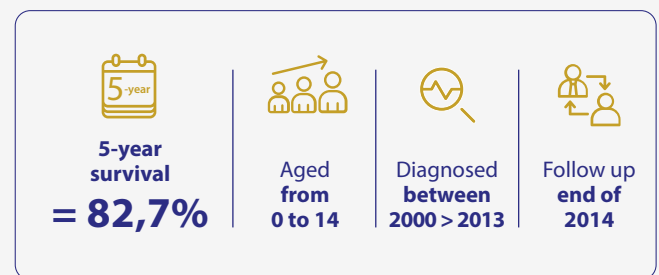
 13,800 new cases (6,241  – 7,559 ).

**Warning:** These are estimates provided by the European Cancer Information system. There are no data available on the incidence of each paediatric malignancy. <https://ecis.jrc.ec.europa.eu>, accessed on 19/March/2024 © European Union, 2024.

They may not match with data from population-based registration at the country level.

### 5 - YEAR OVERALL SURVIVAL: 82,7%

The survival of 5-year is 82,7% in children from 0 to 14 years diagnosed between 2000 – 2013 and followed up to the end of 2014, according to the EUROCORE-6<sup>1</sup> population based study.



EUROCORE-6 pool survival estimate = 83,1%.

(1) Botta, L., Gatta, G., Capocaccia, R., Stiller, C., Cañete, A., Dal Maso, L., & EUROCORE Working Group. (2022). Long-term survival and cure fraction estimates for childhood cancer in Europe (EUROCORE-6): Results from a population-based study. *The Lancet Oncology*. [https://doi.org/10.1016/S1470-2045\(22\)00637-4](https://doi.org/10.1016/S1470-2045(22)00637-4)

## 2 – Organisation of Care

This section focuses on the organization of care in Italy. The country has forty seven institutions treating children and young people with Cancer. These institutions were categorized as "other centers"; this includes paediatric university hospitals, paediatric general hospitals, university hospitals with paediatric units, or general hospitals with paediatric units that also provide treatment for children with other diseases. Three of these institutions are considered a Cancer Center<sup>2</sup>.



### TREATMENTS:

	Chemotherapy Inpatient	✓
	Chemotherapy Outpatient	✓
	Surgery Solid Tumours	✓
	Surgery Central Nervous System	✓
	Autologous SCT <sup>3</sup>	✓
	Allogeneic SCT <sup>3</sup>	✓
	Photon Radiation Therapy	✓
	Proton Radiation Therapy	✓
	Brachytherapy	✓
	New Treatment (Phase I/II Trials)	✓
	Any Clinical Trials	✓
	Survivorship Care Clinic	✓
	Palliative Care	✓

- ✓ Available in the country for children and young people with cancer
- ✗ Not available in the country for children and young people with cancer
- ⊖ Missing information

### Seven institutions are designated ITCC<sup>4</sup> Centers<sup>5</sup> in the Country.

All 13 infrastructural aspects and treatment modalities in the scope of the OCEAN project are available within the country.

(2) Cancer centres were defined as hospitals treating cancer patients only; this can be for children only or both adults and children.

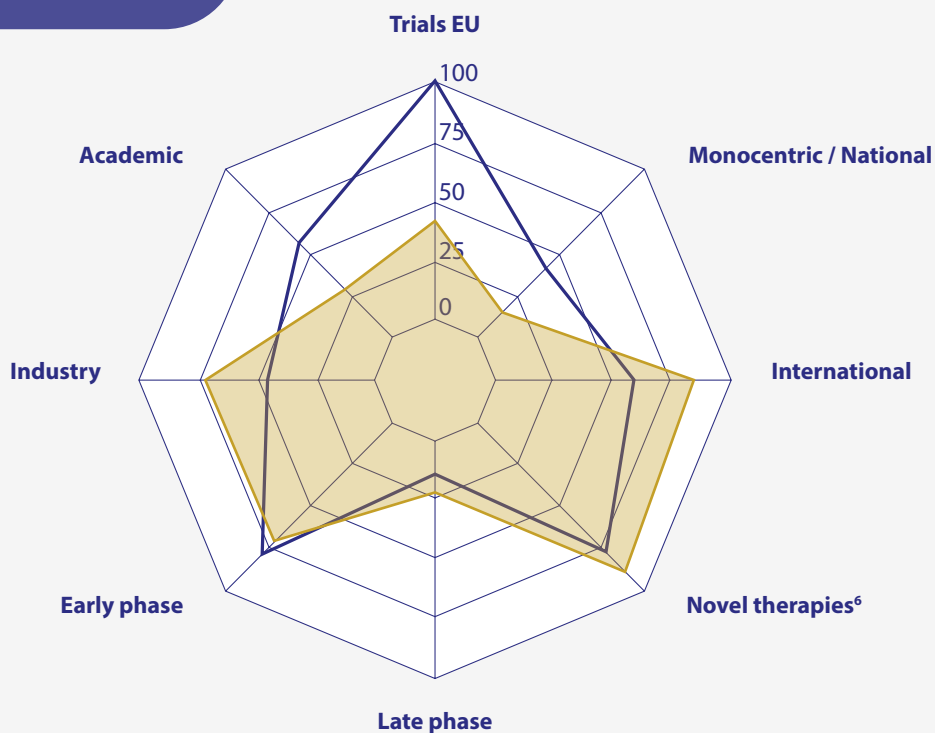
(3) Stem Cell Transplant

(4) The Innovative Therapies for Children and adolescents with Cancer Consortium. The ITCC Consortium is a collaborative network providing access to innovative therapies for children and young people with relapsed or refractory malignancies. [www.itcc-consortium.org](http://www.itcc-consortium.org)

(5) Gaslini Institute, Genova  
Istituto Nazionale Tumori, Milano  
Ospedale San Gerardo, Monza  
Azienda Ospedaliera, Padova  
Università Cattolica del Sacro Cuore, Roma  
Ospedale Bambin Gesù, Roma  
Università di Torino, Torino

# 3 – Research

## CLINICAL RESEARCH PROFILE:



Italy  
(n=180)

All Europe  
(n=436)

### Italy

**41,3%**

From 2010 to 2022, 436 clinical trials enrolled children and young people in Europe: **180 (41,3%) were running in Italy**

Characteristics	Italy		Europe	
› Number of available trials	180		436	
LOCATION TYPE				
› Monocentric / National	28	16%	181	42%
› International	152	84%	255	58%
› Use of novel therapies	159	88%	332	76%
PHASE <sup>7</sup>				
› Early phase	126	70%	334	77%
› Late phase	40	22%	68	16%
SPONSOR				
› Academic	51	28%	239	55%
› Industry	129	72%	197	45%

(6) targeted, immune-, or cell therapies.

(7) The percentages of trials by phase do not sum up 100, as phase 4 and "other type" of trials such as feasibility trials are not included.

## Disclaimer

**The content of this document has undergone validation by the Italian Country Operating Team (COT).**

The following information was obtained within the framework of the OCEAN project, which sought to describe the organization of Care and Research for children and adolescents across Europe. It does not provide information on the access or quality of care for children and adolescents with cancer at a particular care center.

The OCEAN project does not include details on whether a center is certified or accredited.

Members of the Project Steering Committee were from the SIOPE and CCI-Europe boards.

This work was performed as part of the Coordination and Support Action (CSA) "4.UNCAN.eu."



Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union. Neither the European Union nor the granting authority can be held responsible for them



## Short Methodology

**The OCEAN project studied 38 European countries, including all 27 EU member states plus 11 countries that are part of the SIOPE and/or CCI-E networks.**

The epidemiological data were collected from the European Cancer Information System site <https://ecis.jrc.ec.europa.eu>, accessed on 19/march/2024 © European Union, 2024. These data are estimates and not crude population based data. They may differ from the population-based data available at the country level. There is a need for a comprehensive and accurate population based registration of cancer incidence and mortality in children and young people across Europe using ICC.

Survival data are provided by the Eurocare 6 population based study analyzing 135 847 children, aged 0 – 14 years diagnosed between 2000 and 2013 and followed up to the end of 2014 from 80 population based registries from 31 countries. (Botta et al. Lancer Oncol 2022, 23, 1525;)

For the organization of care, a cross-sectional questionnaire-based survey was conducted. Country Operating Teams (COT) were formed, including a senior paediatric oncologist, Chair of the National Paediatric Hemato Oncology Society, a Young SIOPE member (representing an early career paediatric oncologist), and a patient or parent advocate from CCI-Europe. The survey consists of 29 questions across six thematic sections. The survey covered topics such as organizational and national care levels, care delivery, active treatment, care for adolescents and young adults (AYA) with cancer, follow-up care, and patient representatives/parents.

For the organization of research, the ClinicalTrials.gov database was searched to identify all European cancer clinical interventional studies that allowed inclusion of paediatric patients and adolescents (<18 years) and that started between 2010 and 2022. Only European trials (with open sites at ≥1 European countries) were included.

A quality review was performed by three investigators. The selected trials were subsequently reviewed by the SIOPE's European Clinical Trial Groups (ECTGs), which were asked to remove and/or propose additional trials if any were missing.

All European results are published (details and link when available)

- References of the papers when available



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