

## Annual Working Group Report Form

**Year/time period of report: 2022**

**Name of Working Group:** Working Group on Hypertension in Children and Adolescents

**Name of Working Group Section** (if applicable): NA

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### Composition of Working Group

**Chair:**

Stella Stabouli

Email: sstaboul@auth.gr

Year of appointment: 2022

**Vice-Chair:**

Dorota Drozd

Email: dadrozd@cm-uj.krakow.pl

Year of appointment: 2022

**Secretary:**

Name: Denes Pall

Email: pall.denes@gmail.com

Year of appointment: 2018

### Working Group Members

Current number of members: 25

New members approved this year: 3

Chainoglou	Athanasia	Greece	nchainog@gmail.com
Chrysaidou	Katerina	Greece	cathchris84@hotmail.com
Jankauskiene	Augustina	Lithuania	augustinajankauskiene@yahoo.com

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### Activities of the year

Publications on behalf of the Working Group

Published this year: NA

In preparation: Transition of hypertensive youth from pediatric to adult care units among ESH Excellence Centers

Meetings organized/planned this year:

1. HyperChildNET meeting in Istanbul, Cardiometabolic Syndrome Hybrid Meeting, May 26-28, 2022, Istanbul, Turkey (Several members of the WG group actively participated)

ESH endorsement: yes

2. HyperChildNET meeting in Krakow, Early Prevention of Cardiometabolic Risk Factors, September 22-24, 2022, Krakow, Poland (Several members of the WG group actively participated)

ESH endorsement: no

### **Participation to the ESH Annual Meeting**

WG scientific meeting; main program

#### **Lecture**

Pediatric primary hypertension: gaps in knowledge and needed research- E. Lurbe (Valencia, SPAIN)

#### **Clinical Cases Session : How to Manage Hypertension in Adolescents**

Chairpersons: B. Falkner (Philadelphia, PA, USA), S. Stabouli (Thessaloniki, GREECE)

- Obese adolescent with systolic hypertension - P. Iliakis (Athens, GREECE), D. Konstantinidis (Athens, GREECE)
- Adolescent with CAKUT (Congenital Anomaly of Kidney and Urinary Tract) and stage 1 hypertension- K. Chrysaidou (Thessaloniki, GREECE)
- Adolescent with acute severe hypertension - K. Azukaitis (Vilnius, LITHUANIA), A. Jankauskiene (Vilnius, LITHUANIA)

#### **Meeting of the ESH Working Group on Hypertension in Children and Adolescents. High Blood Pressure in Children and Adolescents: New Insights**

Chairpersons: D. Drozd (Krakow, POLAND), S. Erdine (Istanbul, TURKEY)

- Screen time and sleep disorders in the origin of high Blood Pressure in youth - M. Wójcik (Krakow, POLAND)
- The economic impact of childhood obesity - B. Lopez-Valcarcel (Gran Canaria, SPAIN)
- Building international networks for innovation on hypertension in children and adolescents-J. Carrero (Valencia, SPAIN)
- Target organ damage in pediatric primary hypertension - B. Falkner (Philadelphia, PA, USA)

#### **Workshop: Prevention in Children and Adolescents**

- Screening for childhood hypertension - D. Drozd (Krakow, POLAND)
- Addressing the needs of Blood Pressure measurement in children and adolescents - S. Stabouli (Thessaloniki, GREECE)
- Clinical significance of isolated systolic and diastolic hypertension phenotypes in youth- E. Lurbe (Valencia, SPAIN)

**Scientific projects**

Completed this year: Survey on transition of hypertensive youth from pediatric to adult care units among ESH Excellence Centers

Ongoing: Analyzing and reporting the results on the survey on transition of hypertensive youth from pediatric to adult care units among ESH Excellence Centers

In planning for next year: Survey on transition of hypertensive youth from pediatric to adult care from the pediatric point of view

**Educational projects**

Completed this year: HyperChildNET Training School in Vilnius, June 13-15, Vilnius, Lithuania (Several members of the WG group actively participated)

Ongoing: NA

In planning for next year: HyperChildNET meeting in Thessaloniki, Greece, Spring 2023

**Collaborations with other WGs/Scientific Societies: NA**

**Other remarks:**

WG members are involved in the Core Group and Empar Lurbe is Chair of the COST ACTION HyperChildNET

**Publications involving members of the WG**

Stabouli S, Chainoglou A, Evripidou K, Simão C, Antza C, Petrou P, Hamdani G, Calpe J, Lurbe E. Comparison of validation protocols for blood pressure measuring devices in children and adolescents. *Front Cardiovasc Med.* 2022 Nov 23;9:1001878.

Sinha MD, Azukaitis K, Sladowska-Kozłowska J, Bårdsen T, Merkevicus K, Karlsen Sletten IS, Obrycki Ł, Pac M, Fernández-Aranda F, Bjelakovic B, Jankauskiene A, Litwin M; HyperChildNet Working Group. Prevalence of left ventricular hypertrophy in children and young people with primary hypertension: Meta-analysis and meta-regression. *Front Cardiovasc Med.* 2022 Oct 31;9:993513.

Lucas I, Puteikis K, Sinha MD, Litwin M, Merkevicus K, Azukaitis K, Rus R, Pac M, Obrycki L, Bårdsen T, Sladowska-Kozłowska J, Sagsak E, Lurbe E, Jiménez-Murcia S, Jankauskiene A, Fernández-Aranda F. Knowledge gaps and future directions in cognitive functions in children and adolescents with primary arterial hypertension: A systematic review. *Front Cardiovasc Med.* 2022 Oct 20;9:973793.

**Filled by (full name):** Stella Stabouli

**Date:** 03/01/2023

## Appendix:

List of all current WG members

Name	Surname	Country	e-mail
Bianchetti	Mario	Switzerland	mario.bianchetti@pediatrician.ch
Chainoglou	Athanasia	Greece	nchainog@gmail.com
Cruickshank	Kennedy	UK	kennedy.cruickshank@kcl.ac.uk
Chrysaidou	Katerina	Greece	cathchris84@hotmail.com
Drożdż	Dorota	Poland	dadrozdz@cm-uj.krakow.pl
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Pall	Denes	Hungary	pall.denes@gmail.com
Pitti	Julio Álvarez	Spain	japnago@gmail.com
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Schaefer	Franz	Germany	Franz.Schaefer@med.uni-heidelberg.de
Seeman	Tomas	Czech Republic	tomas.seeman@lfmotol.cuni.cz
Sener	Yusuf Ziya	Turkey	<a href="mailto:rt.moc.oohay@reneszy">rt.moc.oohay@reneszy</a>
Simonetti	Giacomo	Switzerland	Giacomo.Simonetti@eoc.ch
Sinha	Manish	UK	manish.sinha@nhs.net
Sokolović	Šekib	Bosnia	sekib@bih.net.ba
Stabouli	Stella	Greece	sstaboul@auth.gr
Stergiou	George	Greece	stergiougs@gmail.com
Wühl	Elke	Germany	Elke.Wuehl@med.uni-heidelberg.de

### Short history of WG:

The Working Group on Blood Pressure in Children and Adolescents was founded in 2009 by Empar Lurbe who was the Chairperson of WG. In 2022 there was a rotation of the WG board, and the Chair is Stella Stabouli, Vice Chair is Dorota Drozd and the Secretary is Dennis Pall.

The Working Group was the Core of the team which developed the guidelines entitled “Management of High Blood Pressure in Children and Adolescents: Recommendation of the ESH” in 2009. The Guidelines were translated and published in different languages and countries in Europe and South America. They have been published in the most important journals in the field of pediatrics and primary care.

The Scientific Council and the Working Group on Hypertension in Children and Adolescents of the ESH recognized the need for an update of the 2009 guidelines as, over

the 7 years elapsed from their publication, a large body of new knowledge had been acquired, making, modifications and expansion of the previous recommendations necessary.

The “2016 European Society of Hypertension guidelines for the management of high blood pressure in children and adolescents” were a logical consequence of the ongoing engagement of the Working Group.

Areas requiring urgent increase in knowledge have been identified and scientific projects have been developed and some of them submitted to the European Union for financial support. Among others those related to obtain robust reference values for office, home and ambulatory BP based on a European pediatric population; to collect information about early organ damage so as to refine risk stratification and use the information to set intermediate objectives during treatment; to conduct large, long-term randomized therapeutic trials using onset of organ damage and to obtain information about when to initiate anti-hypertensive drug treatment and to decide which BP goals to achieve.

The WG has been organizing specific sessions at the ESH annual meetings devoted to cover the most important issues in this field, receiving more and more abstract submissions from healthcare professionals every year. Members of the Working Group also participate in the annually organised summer schools. The Working group was involved in the organization of the 1st International Congress in Hypertension in Children and adolescents endorsed by the ESH, held in Valencia in February 2018 and the 2nd one in Warsaw in May 2019.

Many members of the Working Group are involved in the HyperChildNET COST ACTION. Empar Lurbe is the Chair of the Action and Elke Wühl is the Vice-Chair.