## Variations in non-pharmacological anti-infective measures in childhood leukemia – results of an international survey

Thomas Lehrnbecher,<sup>1</sup> Richard Aplenc,<sup>2</sup> Fernanda Rivas Pereira,<sup>3</sup> Alvaro Lassaletta,<sup>4</sup> Désirée Caselli,<sup>5</sup> Jerzy Kowalczyk,<sup>6</sup> Julia Chisholm,<sup>7</sup> and Lillian Sung <sup>8</sup>on behalf of the SIOP Supportive Care Working Group\*

<sup>1</sup>University of Frankfurt, Germany; <sup>2</sup>Children's Hospital of Philadelphia, PA, USA; <sup>3</sup>Children's Hospital, Gutierrez, Argentine Treatment Group of Acute Leukemias GATLA, Argentina, Buenos Aires; <sup>4</sup>Hospital Niño Jesús, Madrid, Spain; <sup>5</sup>Azienda Ospedaliero-Universitaria Meyer, Florence, Italy; <sup>6</sup>Medical University, Lublin, Poland; <sup>7</sup>Royal Marsden Hospital, Sutton, UK; <sup>8</sup>The Hospital for Sick Children, Toronto, Canada

Citation: Lehrnbecher T, Aplenc R, Rivas Pereira F, Lassaletta A, Caselli D, Kowalczyk J, Chisholm J, and Sung L on behalf of the SIOP Supportive Care Working Group. Variations in non-pharmacological anti-infective measures in childhood leukemia – results of an international survey. Haematologica 2012;97(10):1548-1552. doi:10.3324/haematol.2012.062885

montations monac	104).					
	Social Res (Maximum ALL			strictions m score 10) AML		estrictions n score 16) AML
Canada	0-10	6-10	0-6	0-10	0-11	0-16
United States	0-12	0-12	0-8	0-10	0-13	0-16
Italy	4-10	6-12	0-10	0-10	2-16	8-16
Germany	2-12	0-12	0-10	0-10	0-16	4-16
Spain	0-12	0-12	0-10	0-10	0-16	0-16
United Kingdom	0-6	1-12	0-6	0-6	0-12	0-14
Argentina	3-12	3-12	3-10	5-10	2-16	7-1

# Online Supplementary Table S1. Variation of restriction score by country (only countries with $\geq$ 15 institutions included).

mine Suppementary Questionnane.
Anti-Infective Practices in Pediatric AML and ALL
1. Introduction and General Information
We are performing an international survey on current practices regaphairmgcoobogical measures to prevent infections in children undergoing intensive chemotherapy for standard risk acut lymphoblastic leukemia (ALL) and acute myeloid leukemia (AML). The results of the survey wi design prospective studies with the ultimate goal of improving quality of life for our pat increasing the risk for serious infectious complications.
1. On behalf of which institution are you responding?    Institution:   City/Town:   State/Province:   Country:
2. How many children are diagnosed in your institution per year with de novo acute lymphoblastic leukemia (ALL)?
C <10
O 10-19
C 20-40
○ >40
3. How many children are diagnosed in your institution per year with de novo acute myelogenous leukemia (AML)?
○ <5
O 5-10
○ >10

#### 2. ALL Supportive Care

The following questions are regarding the supportive care of a typical child with standard precursor ALL (not hinghosk or very hinghosk ALL) during intensive chemotherapy (i.e. induction, intensification etc)

The first portion of the ALL "Supportive Care" section relates to restrictions or avoidan pets or food. For these questions, please select one of the possible answers for each ite

- Always restrictions'es, suggest restrictions avoidance all the time in general

--Sometimes restrictionsYes, suggest restrictions or avoidance under certain circumstances during neutropenia). \*\*If you choose this answer for any of the questions, please specify below.

--No restrictionsNo, usually no restrictions

--Restrictions Unknownl am not familiar with the restrictions at my institution

4. Do you recommend restrictions of socials contact for a typical child wi standard risk ALL, in the following circumstances:

	,	3		
	Always restrictions	Sometimes restrictio	No restrictions	Restrictions unknowr
Indoor public places (e.g., restaurants, shopping centers, movie theaters)	O	O	С	C
Outdoor public place (e.g., parks, sport events)	O	O	©	O
Friends visiting pat at home	O	O	0	O
Daycare	Õ	$\odot$	$\odot$	O
Kindergarten	O	0	0	O
School beyond kindergarten	Ō	C	O	O

5. If you sometimes recommend restrictions of social contact, please speci the circumstances.

۵.

6. Do you recommend restriction of pets in the home for a typical child wi standard risk ALL, with the following animals:

		_		
	Always restriction	sSometimes restrictio	No restrictions	Restrictions unknowr
Dogs	0	O	0	O
Cats	O	O	$\odot$	O
Turtles	0	O	0	O
Hamster/guinea pig	O	O	O	O
Birds (e.g., budgie, parrot)	O	O	0	C

7. If you sometimes recommend restrictions of pets in the home, please specify the circumstances.

8. Do you recommend food restrictions for a typical child with standard ri ALL, with the following items:

.

.

	Always restriction	sSometimes restrictio	No restrictions	Restrictions unknowr
Raw sea food	O	O	C	O
Raw meat	O	$\odot$	Õ	O
Unpasteurized milk o cheese	O	0	C	O
Uncooked and unpeeled vegetables	O	$\odot$	Õ	O
Sal ad	0	0	O	O
Nuts	O	$\odot$	Õ	O
Take out food	O	0	O	O
Tap water	O	$\odot$	Õ	O

9. If you sometimes recommend food restrictions, please specify the circumstances.

Page 3

Anti-Infective Practices in Pediatric AML and ALL
3. ALL Supportive Care (continued)
10. Do you recommend wearing face masks in public, for a typical child wit standard risk ALL ?
○ Yes, suggest to wear in general
igodot No, usually do not suggest wearing
Yes, suggest to wear under certain circumstances (e.g., during neutropenia). Please specify.
11. The above given recommendations regarding infection prevention for a typical child with standard riskpißecursor ALL (not highrisk or very high risk ALL) during intensive chemotherapy (i.e. induction, intensification e are defined by: (Select all that apply)
Standard operation procedures (SOP)
General agreement
Individual decision by physician
Other (please specify)
12. The information and instruction given to parents about the above mentioned recommendations regarding infection prevention for a typical child with standard risk-Brecursor ALL (not highrisk or very highrisk ALL) during intensive chemotherapy (i.e. induction, intensification etc) a defined by: (Select all that apply)
Hand out
Nurse
Physi ci an
Other (please specify)

Ant	ti-Infective Practices in Pediatric AML and ALL
	13. Please add any additional comments that you may have regarding non-
	pharmacological practices to prevent infection in standard risk ALL:

#### 4. AML Supportive Care

The following questions are regarding the supportive daype could anew 3 de novo AML patient during intensive chemotherapy

The first portion of the AML "Supportive Care" section relates to restrictions or avoidan pets or food. For these questions, please select one of the possible answers for each ite

--Always restrictions'es, suggest restrictions avoidance all the time in general

--Sometimes restrictionsYes, suggest restrictions or avoidance under certain circumstances during neutropenia). \*\*If you choose this answer for any of the questions, please specify below.

--No restrictionsNo, usually no restrictions

--Restriction Unknownl am not familiar with the restrictions at my institution

14. Do you recommend restrictions of socials contact for a typical child w AML, in the following circumstances:

	Always restriction	sSometimes restrictio	No restrictions	Restrictions unknowr
Indoor public places (e.g., restaurants, shopping centers, movie theaters)	O	С	C	C
Outdoor public place (e.g., parks, sport events)	O	O	O	O
Friends visiting pat at home	O	C	O	O
Daycare	$\odot$	$\odot$	O	0
Kindergarten	0	C	0	O
School beyond kindergarten	O	C	O	O

15. If you sometimes recommend restrictions of social contact, please specify the circumstances.

16. Do you recommend restriction of pets in the home for a typical child w AML, with the following animals:

	0			
	Always restrictions	Sometimes restrictio	No restrictions	Restrictions unknowr
Dogs	O	0	$\odot$	O
Cats	$\odot$	$\odot$	$\odot$	O
Turtles	$\odot$	0	$\odot$	O
Hamster/guinea pig	$\odot$	$\odot$	$\odot$	C
Birds (e.g., budgie, parrot)	0	O	O	O

17. If you sometimes recommend restrictions of pets in the home, please specify the circumstances.

۰.

18. Do you recommend food restrictions for a typical child with AML, with the following items:

	Always restriction	nsSometimes restrictio	No restrictions	Restrictions unknowr
Raw sea food	O	0	O	O
Raw meat	O	O	O	O
Unpasteurized milk o cheese	O	O	O	O
Uncooked and unpeeled vegetables	O	O	O	O
Sal ad	0	0	$\odot$	O
Nuts	O	O	Õ	O
Take out food	O	O	O	O
Tap water	O	O	Õ	O

19. If you sometimes recommend food restrictions, please specify the circumstances.



Anti-Infective Practices in Pediatric AML and ALL
5. AML Supportive Care (continued)
20. Do you recommend wearing face masks in public for a typical child with AML?
⑦ Yes, suggest to wear in general
igodot No, usually do not suggest wearing
Yes, suggest to wear under certain circumstances (e.g., during neutropenia). Please specify.
21. The above given recommendations regarding infection prevention for a typical child with AML during intensive chemotherapy are defined by: (Select all that apply)
Standard operation procedures (SOP)
🗌 General agreement
Individual decision by physician
Other (please specify)
22. The information and instruction given to parents about the above mentioned recommendations regarding infection prevention for a typical child with AML during intensive chemotherapy are defined by: (Select all that apply)
Hand out
Nurse
Physi ci an
Other (please specify)
23. Please add any additional comments that you may have regarding non- pharmacological practices to prevent infection in AML: