

# *INTERNATIONAL CONFERENCE ON PEDIATRIC SURGERY & NEUROSURGERY*

Yerevan, Armenia, 6-7 September 2018



## *Organizers*



*Armenian Pediatric Association*



Yerevan State Medical University  
after Mkhitar Heratsi



*Russian Association of Pediatric Surgeons*



“Sourb Astvatsamayr” Medical Centre



*Eurasian Association of Pediatric  
Neurosurgeons*



“Arabkir” Joint Medical Centre



*National Society of Pediatric Surgery  
of the Republic of Moldova*



INTERNATIONAL CONFERENCE  
OF PEDIATRIC SURGERY  
& NEUROSURGERY



6-8 September 2018

ORGANIZING COMMITTEE AND EDITORIAL BOARD

CONFERENCE PRESIDENTS

**ALEXANDR RAZUMOVSKI** - correspondent-member of Academy of Science of Russia, MD, PhD, university professor, president of Russian association of pediatric surgeons

**NIKOLAY DALLAKYAN** - MD, PhD, associate professor, Chief specialist in pediatric surgery of Ministry of Health, Republic of Armenia

**WILLIAM KHACHATRYAN** - MD, PhD, professor, vice-president of Eurasian association of pediatric neurosurgeons

**MIKHAIL TALABAEV** - MD, PhD, professor, president of Eurasian association of pediatric neurosurgeons, Chief specialist in pediatric neurosurgery of Ministry of Health of the Republic of Belarus

COORDINATORS

**DAVID DALLAKYAN** - MD, PhD, university lecturer (Armenia)

**OLEG GORBACHIOV** - MD, PhD, associate professor (Russia)

SCIENTIFIC COMMITTEE

*Pediatric Surgery*

**Zorikto Mitupov** (Moscow, Russia),

**Nikita Stepanenko** (Moscow, Russia),

**Gevorg Tamamyanyan** (Yerevan, Armenia),

**Yuri Sokolov** (Moscow, Russia),

**Arman Harutyunyan** (Yerevan, Armenia),

**Albert Lalazaryan** (Yerevan Armenia)

*Pediatric Neurosurgery*

**Ruben Fanarjyan** (Yerevan, Armenia)

**Mamikon Egunyan** (Yerevan, Armenia)

**Margar Martirosyan** (Yerevan, Armenia)

**Arsen Alaverdyan** (Yerevan, Armenia)

**Eduard Astryan** (Yerevan, Armenia)

**Nara Lalazaryan** (Yerevan, Armenia)

**Janna Semenova** (Moscow, Russia)

**Sergey Gorelishev** (Moscow, Russia)

**William Khachatryan** (Saint- Petersburg, Russia)

**Mikhail Talabaev** (Minsk, Belarus)

Organizing committee

SECRETARIES:

**Bataev Hasan** - MD, PhD, (Russia), **Roman Ignatiev** - MD, PhD, head researcher (Russia), **Stanislav Babuci** - MD, PhD, (Moldova), **Olga Gorbatyuk** -MD, PhD, Professor (Ukraine), **Ara Karapetyan** -MD, (Armenia), **Artak Gevorgyan**- MD, (Armenia), **Narine Evinyan** -MD, (Armenia), **Ashot Kankanyan** -MD, (Armenia), **Hrach Vardanyan**- MD, (Armenia), **Anahit Shahinyan**- MD, (Armenia), **Eduard Asatryan**- MD, (Armenia), **Samvel Sargsyan**- MD, (Armenia), **Nara Lalazaryan**-MD, (Armenia), **Sos Petrosyan** -MD, (Armenia), **Anahit Hovsepyan** -Resident, (Armenia)

SECRETARIAT

**Grigoryan M.H.**, **Ghulyan K.A.**, **Martirosyan L.S.**, **Tevosyan N.N.**, **Kocharyan N.A.**, **Movsisyan M. R.**, **Matinyan S.V.**



INTERNATIONAL CONFERENCE  
OF PEDIATRIC SURGERY  
& NEUROSURGERY

*6-8 September 2018*

**CONTENTS** of Abstracts of CONFERENCE

"INTERNATIONAL CONFERENCE OF PEDIATRIC SURGERY & NEUROSURGERY - 2018"

<i>WELCOME SPEECH . . . . .</i>	<i>4</i>
<i>THORACIC SURGERY SCIENTIFIC SESSION. . . . .</i>	<i>5</i>
<i>ABDOMINAL SURGERY SCIENTIFIC SESSION. . . . .</i>	<i>19</i>
<i>UROLOGY SCIENTIFIC SESSION.. . . . .</i>	<i>49</i>
<i>NEUROSURGERY SCIENTIFIC SESSION. . . . .</i>	<i>63</i>
<i>MISCELLANOUS . . . . .</i>	<i>79</i>
<i>AUTOR INDEX . . . . .</i>	<i>86</i>

## COMBINED TREATMENT OF HEMANGIOMAS

**INTRODUCTION:** Infantile hemangioma (IH) is a benign vascular tumor in young children with a characteristic life cycle (proliferative, involutive phases), which is also a unique model of postnatal vasculogenesis, angiogenesis and vascular regression.

Tumor growth is conditioned by the influence of pro-angiogenic factors.

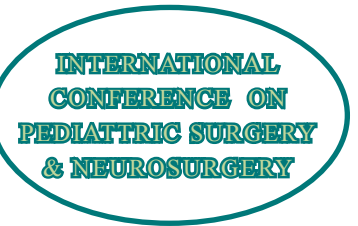
Considerable part of complications develops precisely in the proliferation phase. A rapid increase in hemangiomas is an indication for treatment, which should be based on the age of the patient, localization, size and aggressiveness of the growth.

**Purpose:** to improve the cosmetic results of hemangioma treatment.

**MATERIALS AND METHODS:** 57 children with hemangiomas of different locations were treated in Kharkiv Regional Children's Clinical Hospital No.1 in in 2016-2018. 134 of them were under 1 year of age and 23 were older. Systemic therapy with  $\beta$ -blockers was given to 67 children with multiple and large-sized hemangiomas. Surgical removal using high-frequency coagulator was performed in 8 children who had significant residual changes. 16 children with voluminous, aggressively increasing formations of complex localizations underwent cytoreductive intervention. Local treatment with  $\beta$ -blockers was administered to 30 children, supplemented with compression in 18 children. 28 patients underwent combined treatment which included local administration of corticosteroids, administration of  $\beta$ -blockers and compression effects.

**RESULTS:** Systemic therapy resulted in the desired result within the period of 6-19 months. 2 of 30 children treated with  $\beta$ -blockers were found to have a progressive growth of tumors, requiring removal, due to a disruption of the treatment regimen by the parents. Hemangiomas regressed within the term from 3 months to 1 year in all children who received local treatment with  $\beta$ -blockers, in combination with compression. After cytoreductive removal, residual tissue is active during time. In combined administration of local corticosteroids,  $\beta$ -blockers and compression, signs of regression appeared after 10 days with cessation of manifestations in the 3-6 months period.

**CONCLUSIONS:** Combined local effects of corticosteroids and  $\beta$ -blockers with permanent compression can achieve comprehensive pathogenic effects on hemangiomas by inhibiting pro-angiogenic factors, stimulating early apoptotic activity, and reducing blood flow. Cytoreductive removal of hemangiomas using high-frequency coagulation significantly accelerates the regression process in residual tissues with a good cosmetic outcome in volumetric formations.



CONFERENCE ABSTRACTS  
6 - 7 SEPTEMBER, 2018

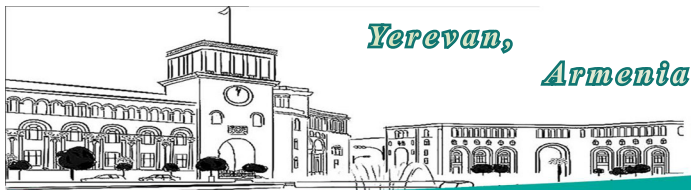
Vivcharuk V. P.<sup>1,2</sup>,  
Pashchenko Yu. V.<sup>1,2</sup>

Kharkov National Medical  
University, Pediatric sur-  
gery and pediatric anestesi-  
ology department, Regional  
Pediatric Hospital №1,  
Kharkov, Ukraine

Corresponding author email:  
pyvpedsurg@mail.ru

### KEYWORDS:

infantile hemangioma,  
corticosteroids,  
 $\beta$ -blockers



INTERNATIONAL CONFERENCE  
OF PEDIATRIC SURGERY  
& NEUROSURGERY

6-8 September 2018

**AUTORS INDEX**

ABRAHAMYAN DS  
ABRAMOV KB  
Abramova A  
Airapetyan MI  
Afaunov MV  
AKSELROV MA  
Akopian AS  
Akopyan M  
Alexandrov SV  
Alekseeva TM  
Alexandrov SV  
Alkhasov A  
Arakelyan SH  
Araqelyan SH  
Asatryan EA  
Aslanyan AA;  
Atakulov DO  
Ayryan EK  
Bajurea AS  
Babloyan SA  
Babloyan SA  
Babuci S  
Barova NK  
Barseghyan HA  
Basyaishvili Yu V  
Bataev SM  
Batrutdinov RT  
Berbeca A  
BOTABAEVA AS  
BUADZE N  
BURGUTOV MJ  
CHIMUTIN GE  
CHIMUTIN KG  
DALLAKYAN DN  
DALLAKYAN NO  
Davranov BL  
Danilyarov ES  
Davydov VV  
Demin NV  
Dmitriakov V  
Dzhavathanova R  
EFREMENKOV A  
Emeljanova VA  
Eremia V  
Eremin DB  
Evdokimov VN

FEDOROV AK  
Feoktistova E V  
Frangyan JV  
Galibin I  
Gevorgyan AL  
Geyikyan PA  
Gheras E  
Godovanets YI  
Golubeva VI  
Gorbatyuk O  
Gudumac E  
Gurevich A  
Guzhova IV  
Habalov M  
Hakobyan LL  
Hambartsumyan GP  
Hambaryan HH  
Harutyunyan AS  
Ibraeva AM  
Igamova SS  
Ignatyev RO  
Igamova SS  
Ivanov PA  
Izosimov AN  
JHELUDKOVA OG  
Kadyrov ZA  
Kagan AV  
Kagantsov IM  
Kalenteryan HZ;  
Kankanyan AK  
Karapetyan AR  
Karavaeva S A  
Kashin AS  
Khachatryan RG  
Khachatryan W A  
Khvorostov IN  
Kim AV  
Komina E  
Kornienko G  
Kotaria N  
Kotin A N  
Kotorashvili A  
Kozlov M  
Kovarsky SL  
Kreschenok D  
Kulikova N V

Kulikova Z  
Kulish TA  
Kutubidze A  
Kuznetsova T N  
Lalazaryan AY  
Larionov SN  
Litovcenco AI  
Livshits MI  
Madosyan ShV  
Malchevskij VA  
Makhmudov ZM  
Mamatkhanov MR  
Manukyan S  
Margulis BA  
Martirosyan MM  
Menovshchikova L  
Mihalcean V  
Mitupov ZB  
MOLOTOV RS  
MOROZOVA SV  
MUTALIBOV IA  
MULTHOFF G  
NEGRU I  
NEMILOVA T K  
NEPALIUC I  
NIKOLAEV BP  
NIKOLAEV S  
NOURIDJANYAN GS  
PANKRATOV ID  
PASHCHENKO KYU  
PETROVICI V  
PLESCO AA  
PODDUBNY I  
PODRATCHYAN MB  
POLYAKOV PN  
POPOVA E B  
RACHKOV VYE  
RAZUMOVSKY AYU  
ROZINOV VM  
SAMOCHERNYCH KA  
SARGSYAN SP  
SATYVALDAYEV MN  
SHAQARYAN MA  
SCUTARU VM  
SHAMSIEV AM  
SHAMSIEV JA

Shcherbakova O  
Shevtsov MA  
Shramko VN  
Shtyker SYU  
Sihaev B E  
Skliarova T  
Skopetc AA  
Skryabin EG  
Sokolov Y  
Sottaeva Z  
Spataru RI  
Stepanenکو NS  
Stepanov A  
Stepanyan SV  
Stepkin MA  
Stoyan M  
Strizhov DNA  
Struiunsky KA  
Svarich VA  
Svarich VG  
SVAZYAN VV  
Svekatun V  
Tadevosyan AR  
Talakovadze L  
Tarakanov VA  
Timershin A  
Tastanbekova ZhU  
Titova E ;  
Tcmokaluk EN  
Ubilava IA  
Utkina T  
Vardanyan HP  
Vardanyan HV  
Vasilyev K  
Vivcharuk V  
Vivcharuk V P  
Volkodav O V  
Yusupov ShA  
Zabrodskaya Yu M  
Zadvernyuk N  
Zadvernyuk A S  
Zakharov AI  
Zharova NV  
ZuevaYY  
Zurbaev NT