

The organization structure of National Children's Rehabilitation Center



Sh.BULEKBAYEVA

Italy, 2017



**2012
CHINA**

Kazakhstan and FEMTEC



**2013
GREECE**



**2015
ITALY**



**2014
KAZAKHSTAN**



**2016
ARMENIYA**

KAZAKHSTAN, ASTANA-BURABAY, 2014



**67 General Assambley of FEMTEK,
attended 109 specialists from 24
countries and 240 specialists from
Kazakhstan**



Children's Rehabilitation center in Astana has been working since 2007. Children arrive at the age of 1 to 18 years from all regions of the country and provides integrative rehabilitation for children with neurological pathology.

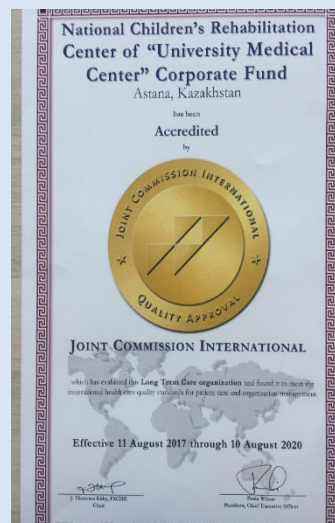
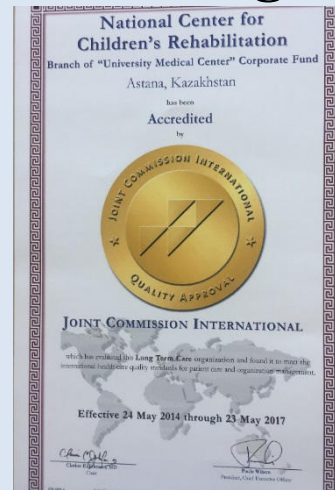
The Center is a structural unit of the CF «UMC»



**We passed with the least amount of comments at the JCI accreditation center in May 2014.
In that moment our Center was the first and only rehabilitation center in the world accredited by JCI.
And we passed the re-accreditation in August 2017**



2014



2017

National Children's Rehabilitation Center of CF "UMC"

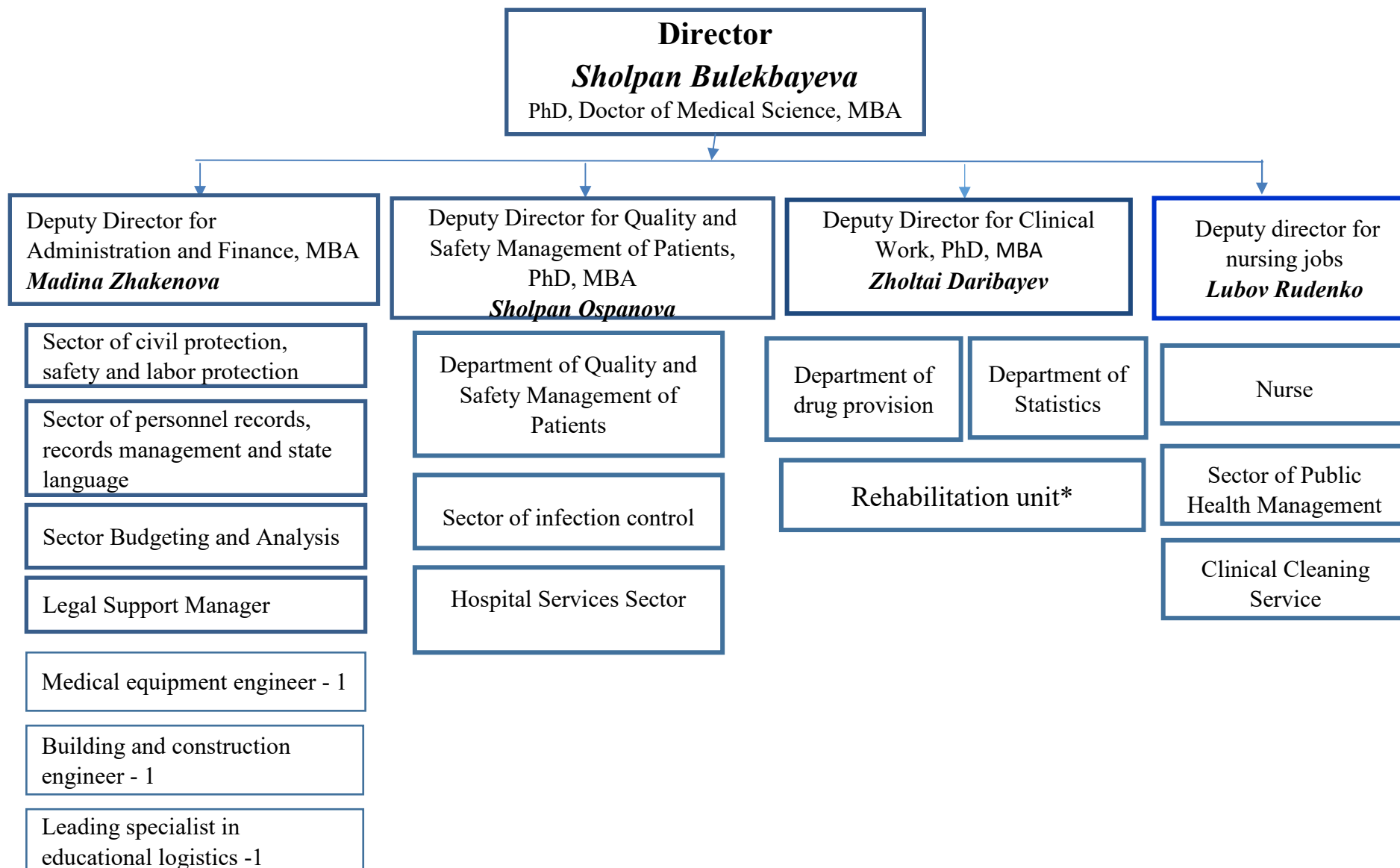
Mission

CF UMC is an academic medical center for providing high level medical care with consideration for the synergy of scientific-research, educational and clinical activities

Vision

To receive recognition as a leading academic center for providing the best medical care in the country and beyond

Organization structure National Center for Children's Rehabilitation of Corporate Foundation "University Medical Center"



Rehabilitation unit*

Center for Clinical Rehabilitation

Asia Risvanova, PhD

Psychoneurological
department №1
«Bobek»

Psychoneurological
department №2
«Kadam»

Psychoneurological
department №3
«Bolashak»

Psychoneurological
department №4
«Akzhol»

Psychoneurological
department №5
«Balbulak»

Psychoneurological
department №6
«Kamkor»

Admission department

Paid division

Center for Innovative Rehabilitation

Meiram Shakenov, PhD

Laboratory of modeling and
orthotics

Laboratory of Functional
Rehabilitation

Laboratory of Robotic
Rehabilitation

Department of Kinesitherapy

Department of Physiotherapy

Center for Social Pedagogical Rehabilitation

Gulshat Sultanova

Department of Inclusive
Education

Correction and
Methodology Department

Department of Social
Adaptation

Committees and Commissions

Administrative committees

Name	Chairman	Position
1. Hospital Council	Bulekbaeva Sh.A.	Director
2. Tariff commission	Zhakenova M.B.	Deputy Director for Administration and Finance
3. Ethical Committee	Daribaev Zh.R.	Deputy Director for Clinical Work
4. Disciplinary Commission	Zhakenova M.B.	Deputy Director for Administration and Finance

Name	Chairman	Position
1. Formulary Commission	Daribaev Zh.R.	Deputy Director for Clinical Work
2. Commission for Infection Control	Daribaev Zh.R.	Deputy Director for Clinical Work
3. Treatment and Control Commission	Daribaev Zh.R.	Deputy Director for Clinical Work
4. KILI	Daribaev Zh.R.	Deputy Director for Clinical Work
5. Bureaucratic Commission	Rudenko L.N.	Deputy director for nursing jobs
6. Council of nurses	Rudenko L.N.	Deputy director for nursing jobs

Committees for the improvement of quality

1. Committee on Quality and Accreditation	Ospanov Sh.H.	Deputy Director for Quality and Safety Management of Patients
2. Commission for conducting commission visits of buildings and structures of the center	Ospanov Sh.H.	Deputy Director for Quality and Safety Management of Patients
3. Committee for the consideration of applications	Ospanov Sh.H.	Deputy Director for Quality and Safety Management of Patients

Center's Core Values:

- **Patient-Care Center:**

- Patient-oriented and respectful attitude to the needs of patients and theirs family

- **Patient Care Center:**

- We are always guided by the needs of the patient with compassion.

- **Diversity:**

- We respect and sincerely support all ethnicities with NO discrimination and we show it through our words and actions.

- **Relations:**

- We maintain and strengthen relations with all our patients, their families, our employees and other related customers.

- **Center's Ethics:**

- We are guided by moral values that are based on honesty, justice, and dignity for the individual.

- **Multidisciplinary team:**

- We work as a team, and reach the best results together in difficult world of healthcare.

- **Quality and Patient Safety:**

- We make efforts to offer the best care/services by raising quality and safety of our patients, family and staff.

Strategic Directions

Development of integrated and high-tech medical care Integration of science, clinics and education;

1. Development of integrated and high-tech medical care;
2. Transfer of advanced knowledge and technology;
3. Introduction of a new model of interaction between clinical staff.

Improving the management of clinics

1. Development of the hospital service system;
2. Compliance with international quality and safety standards for medical
3. Assistance;
4. Development of medical tourism.

Development of a patient-oriented system of medical care

1. Improvement of the operational management system;
2. Development of the hospital information system;
3. Development of human capital;
4. Standardization of clinical and production processes;
5. Implementation of "best practices" in the field of corporate governance.

Increasing of financial stability and efficiency of asset management

1. Raising the level of self-financing;
2. Entering the market of voluntary medical insurance;

Three aspects of complex rehabilitation-multidisciplinary team



Medical rehabilitation:

Consulting and diagnostic services,
Kinesotherapy (therapeutic exercise)
Physiotherapy
Medicament
biofeedback therapy
Posturography
Location treatment
Mechanical treatment
Therapeutic horse riding
Robotic kinesotherapy



Psychological pedagogical correction:

Logopedic room
Defectology
Psychological correction
Montessori therapy
Music therapy
Game therapy
Occupational therapy
Education based on correctional and general education program in school



Social adaptation

Adaptive sport and participation in Olympics
Lessons in autodrome
Professional orientation in the workshops (sewing, carpentry shop, hairdresser)
Orthosis
Legal counseling

Center's activity peculiarities

- ❖ Arrival system with admission and discharge of patients from all regions of the country (306 patients). Duration of stay is 24 days, 14 admissions annually.**
- ❖ Patients stay 24 hours a day in the Center.**
- ❖ At a place of residence patients must complete screenings approved by the Center. Patients with tuberculosis and other infection diseases are not admitted.**
- ❖ Brief examination is carried out in the receiving department. Complete examination is carried out in specialized department by physician and nurse within 24 hours.**

Center's activity peculiarities (continuation)

- ❖ Rehabilitation in all departments is standardized, realized according to one diagnostic and rehabilitation protocol, common care approach for patients, regardless of age, sex, religion persuasion, ethnicity, residency.**
- ❖ Dynamic patient monitoring is during week-days, Saturday and Sunday – non-working days, but there is a nursing care.**
- ❖ For the patients, who need care in non-working days, the care is realized by attending physician and nurse.**

Outsourcing companies:

- *Food service;*
- *Laundry*

Facility services:

USM:

- *Engineering;*
- *Security;*
- *Cleaning*

Agreement with Republican Diagnostic Center:

- *Clinical laboratory.*

Agreement with National scientific Center for Mother and Child:

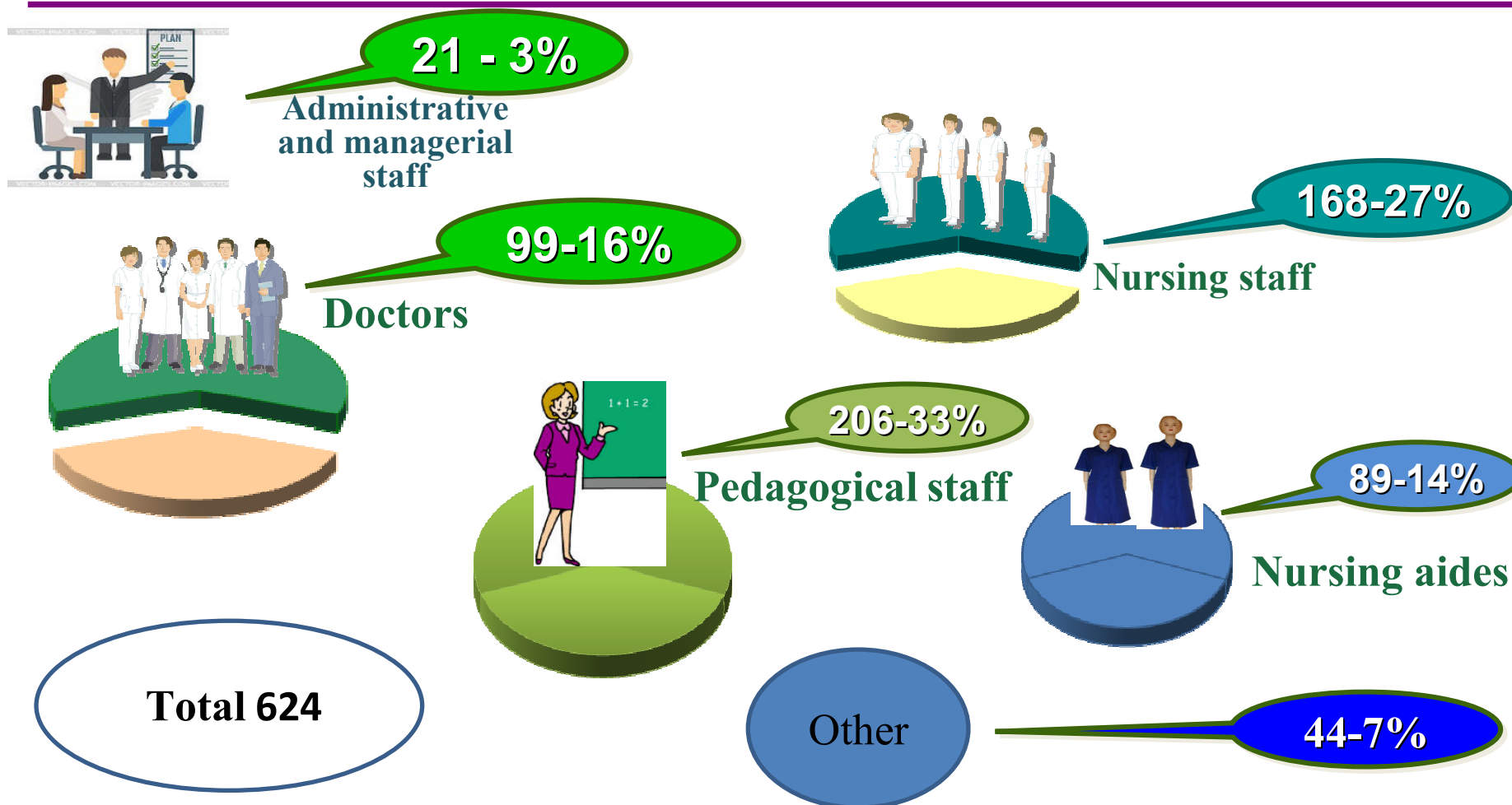
- *Sterilisation*

List of areas in which anesthesia is administered:

- Dental room



Our staff



- General category of employees are women -533 (85%), men -91 (15%)
- Average age of employees is 35-45

Statistical Data

Statistic data	2014	2015	2016	First six months 2017
Capacity	306	306	306	306
Bed occupancy rate	296,4	297,0	296,7	304,8
Average duration of patient stay	23,7	23,7	23,6	23,3
Number of patients per year	4249	4262	4269	1837

The most frequent diseases:

№	Nosology	Patients number		Patients number	
		2016		6 m. 2017	
		abs.	%	abs.	%
1	Cerebral palsy	2404	67,5	1181	55
2	Other disorders of speech and language development	663	18,6	337	15,7
3	Congenital malformations of the nervous	260	7,3	123	5,7
4	Consequences of intracranial injury	149	3,5	77	3,6
5	Autism	142	3,3	61	2,8

The most frequent procedures:

- Kinesotherapy -100%
- Correctional pedagogy -100%
- Ergotherapy-100%
- Physiotherapy-98%
- Orthotics-85%

Our achievements

- The National Medical Association in 2010 awarded the Center with the public recognition sign "MERCY" for the high quality of medical Assistance
- Following the results of the contest "Pharmaceutical Constellation-2011" in the nomination "Clinic of the Year", the Center was nominated as "The Best Clinic of 2011" and "The Best Clinic of 2012"
- The Center every year realizes screening for special athletes **"Healthy athlete"** as part of Open Special Kazakhstan Olympics "Special Olympics" private association
- The Center в 2012 году joined Worldwide Federation of Hydrotherapy and climate treatment «FEMTEC». For contribution of progress of balneotherapy and rehabilitation the Center and four employees were awarded with gold medals «FEMTEC».
- The Center took the 1st place in All-Russian competition "Innovative speech therapy: achievements and perspectives", проведенного в Санкт-Петербурге в декабре 2012 г.



Our achievements (continued)

- The Center became “*Leader of branch*” 2013, Chief Executive Officer was awarded with medal, deputy of Chief Executive Officer was recognized as “*Specialist of the year*”, Finance Director – medal.
- For the contribution to the development of balneology and hydrotherapy, Chairman of the Board Bulekbaeva Sh.A. Awarded the Order of the University of Milan.
- The Center took the 1 place in the All-Russian with the International participation in the competition of educational and methodical works of students and speech therapists “Innovative speech therapy: achievements and perspectives”.
- The Center was accredited as a scientific organization.
- “Implementation of Montessori pedagogics into correctional and developmental teaching and upbringing of children in preschool facilities of the Republic of Kazakhstan” grant was realized.
- The Center is accredited to the JCI Accreditation Standards for Long-Term Care, 1-st edition in 2014.

Our achievements

Information about Center was included in
“*Federal Reference Book*” of Russia’s healthcare,
in reference book dedicated to 20 years of
independence of Kazakhstan, in reference book
“*For sake of life on the earth*”. The best healthcare
workers of Kazakhstan became as employees of
our Center.



Awarded with title “Excellent worker in Public Health of the Republic of Kazakhstan”	18 employees of the Center
Program «Bolashaq»	Medical director - USA, University of South Florida, 3 months 8 physicians – South Korea, «Ajou Univercity Medical Center», Medical Center «CEM», Medical Center «Bobat», «St. Vincent Medical Center»,
<u>179 specialists were trained abroad</u>	37 - trained in Moscow, Russia; 14 – trained in St.Petersburg, Russia; 7 - studied at the clinics of Agibadem, Istanbul, Turkey 2 - Trained in Munich, Germany; 3 - Medical University Charite-Berlin, Germany; 6 – Bad Füssing, Germany; 6 - Clinic Vogtareyt, Clinic of Ezuitenschlesel, Germany; 4 - Germany, rehabilitation center «Johanessbad»; 5 - South Korea, Budan Hospital of National Seoul University; 10 – London, Great Britain; 3 - Prague, (Czech Republic) 4 - Vienna (Austria) 10 - Miami, Chicago, Illinois, University of Kingston, Carolina, USA; 14 - Litva, Litva University of Health ,; 2 - Research Institute of Prosthetics and Orthotics, Kharkov, Ukraine; 5 - Geneva, Montreux, Switzerland; 1 - Beijing, China; 5 - Shemer Medical Center, Haifa, Israel; 3 - Israel, Medical Center «Alin», 4 - England, France; 12 - Pisa, Italy; 2 - Simferopol, Ukraine; 1 - Tokyo, Japan; 1 - Rio de Janeiro, Brazil; 1 - Salzburg, Austria; 10 - Slovenia, Rehabilitation Center «Socha»; 1 - University Hospital Ghent, Ghent, Belgium; 1 - National University Clinic of Singapore, Singapore; 2 - University of Applied Sciences JAMK, Jyvaskyla, Finland.



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Correspondence

Cerebral palsy: a multidisciplinary, integrated approach is essential

Sholpan Bulekbayeva, Zholtay Daribayev, Sholpan Ospanova, Sandro Vento

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DOI: [http://dx.doi.org/10.1016/S2214-109X\(17\)30082-7](http://dx.doi.org/10.1016/S2214-109X(17)30082-7)[Article Info](#)[Summary](#)[Full Text](#)[References](#)

Cerebral palsy, a syndrome of motor impairment resulting from a lesion in the developing brain, has a worldwide prevalence of 1·0–3·5 per 1000 livebirths.^{1, 2} A life-course perspective needs to be adopted as more children live into their adolescence and adulthood. Individuals' participation in life and availability of family-centred services are very important and differ between countries.³ In low-income countries, most treatments are provided by families and multidisciplinary assessment is done in rural clinics.⁴

We advocate for a multidisciplinary, integrative approach to rehabilitation, to be initially provided in child rehabilitation centres, as an effective way to manage this disorder. A Republican Children's Rehabilitation Centre was opened in Astana, Kazakhstan, in 2007. It admits more than 4200 children annually, of whom around 2400 have cerebral palsy. The multidisciplinary approach includes medical rehabilitation, assessment by psychologists, interventions for intellectual disability and learning difficulties, individualised education plans, occupational therapy, and social adaptation.

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Impact factor for the
magazine - 14,27

COMMENT

**Reframing non-communicable diseases
as socially transmitted conditions**

Vol. 5, No. 7

Published: July, 2017

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Questions

- **Questions on the repairment of the building are provided by USM;**
- **Issues of procurement of goods, works and services are provided by the purchasing department of the CF “UMC”**

Plans

- 1. To become a base of the School of Medicine of Nazarbayev University-2018;**
- 2. Conduct scientific research with leading foreign rehabilitation centers - 2017-2020;**
- 3. Pass the re-accreditation of JCI-August 2020**



10-th
anniversary
of the
Center



