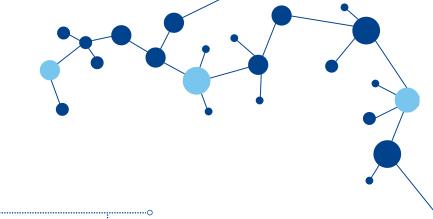


Craniocerebral Therapeutic Hypothermia Equipment

How can technology of local brain cooling assist World Healthcare?

«CryoTechnoMed»





What we do:



Mission statement:



Support:

Development u production of craniocerebral therapeutic hypothermia equipment line

Introduction of craniocerebral hypothermia into medical practice

Development of methodologies of craniocerebral hypothermia

Scientific research of craniocerebral hypothermia

Development of effective and economically efficient hypothermia technologies with aim to improve resuscitation and rehabilitation outcomes:

- --∘ reduction of mortality
- reduction of rehabilitation period بالم
- entive health and preventive healthcare
- improvement of quality of life فَسَاءُ أَسْهِ

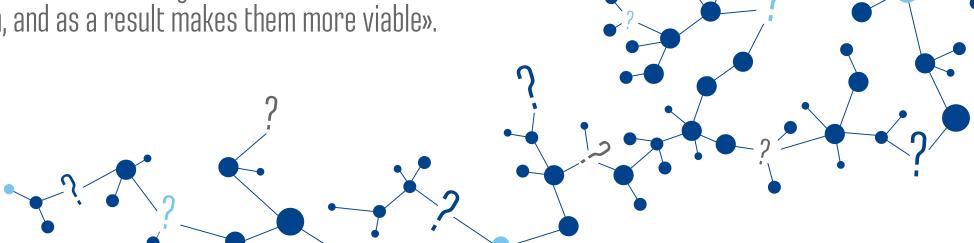
Agency of Strategic Initiatives (RUS)

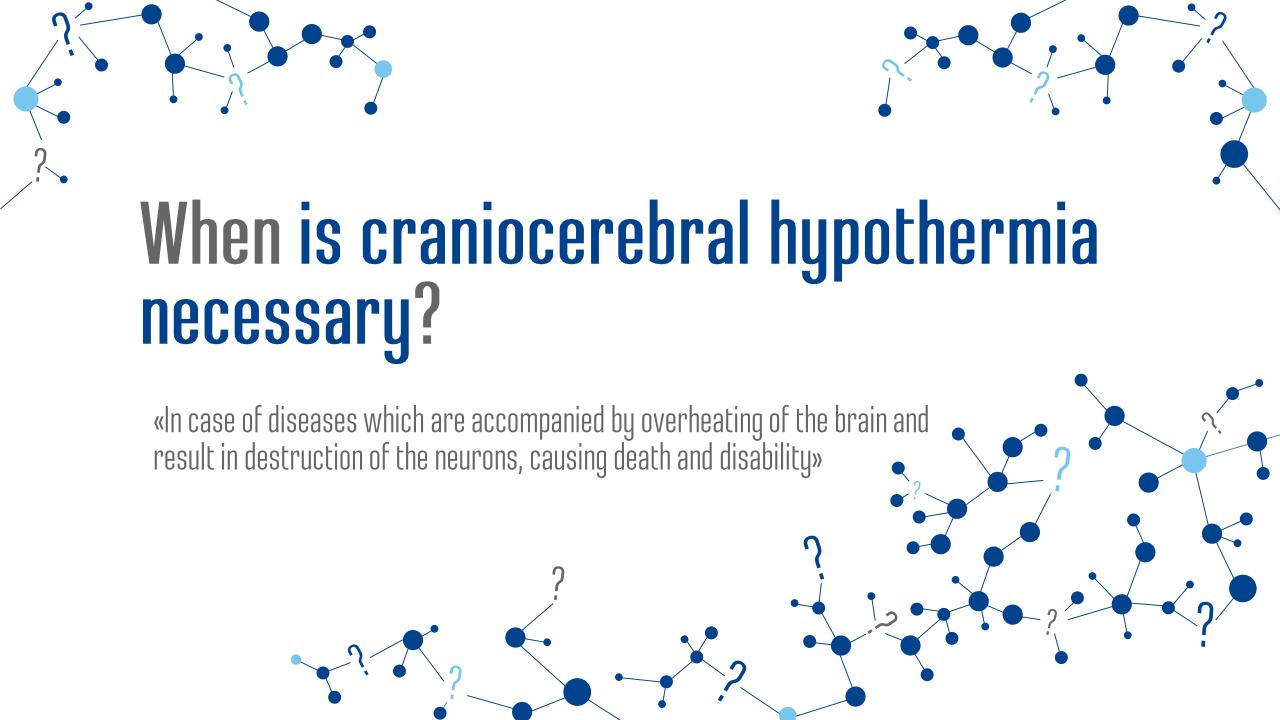
Skolkovo Innovation Centre (RUS)

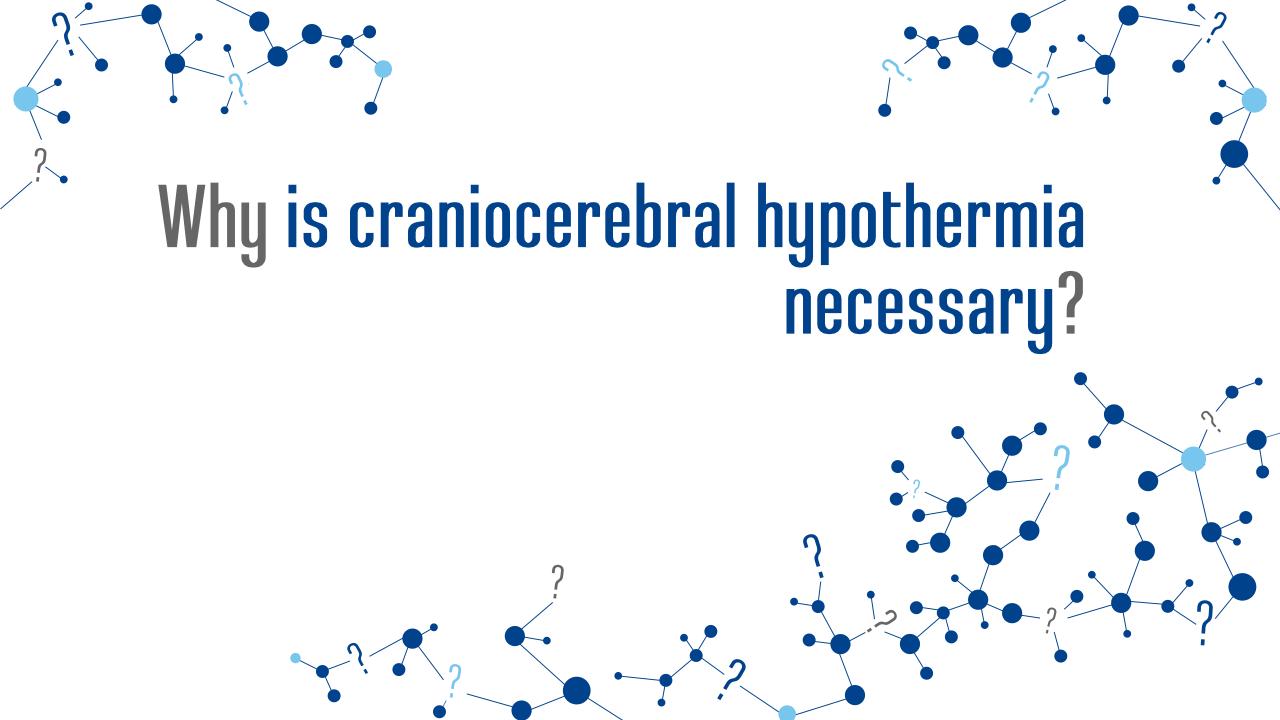


What is craniocerebral hypothermia?

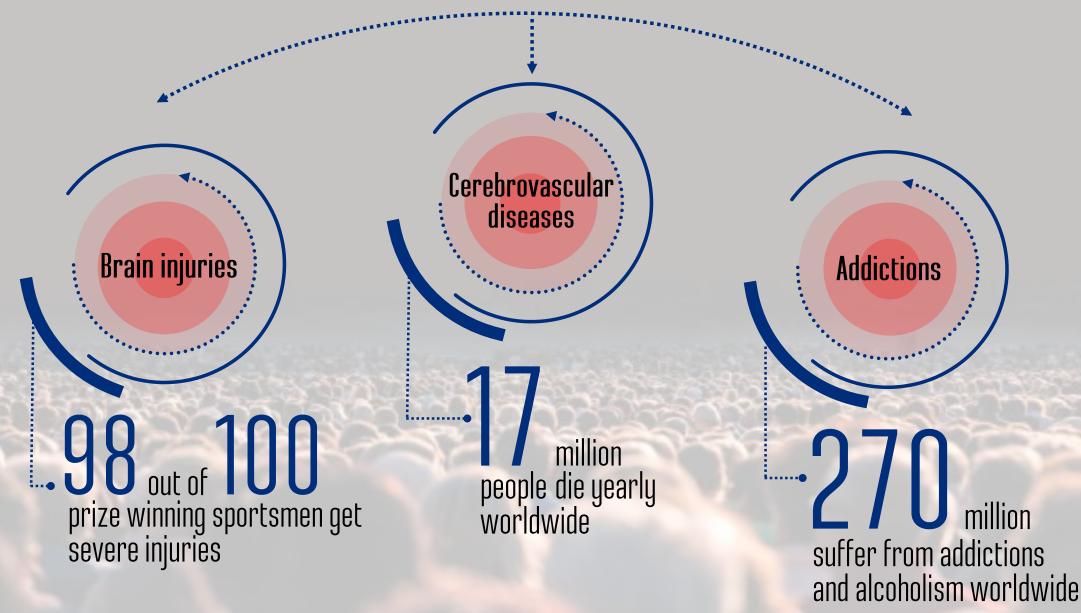
«Craniocerebral hypothermia is controlled cooling of the brain, which reduces metabolism of neurons, enhances strength of cell membranes, decreases their requirement in oxygen, and as a result makes them more viable».







Diseases which are accompanied by overheating of the brain



Solution

Craniocerebral therapeutic hypothermia equipment «THE-01»

Craniocerebral hypothermia induced with «THE-01»:

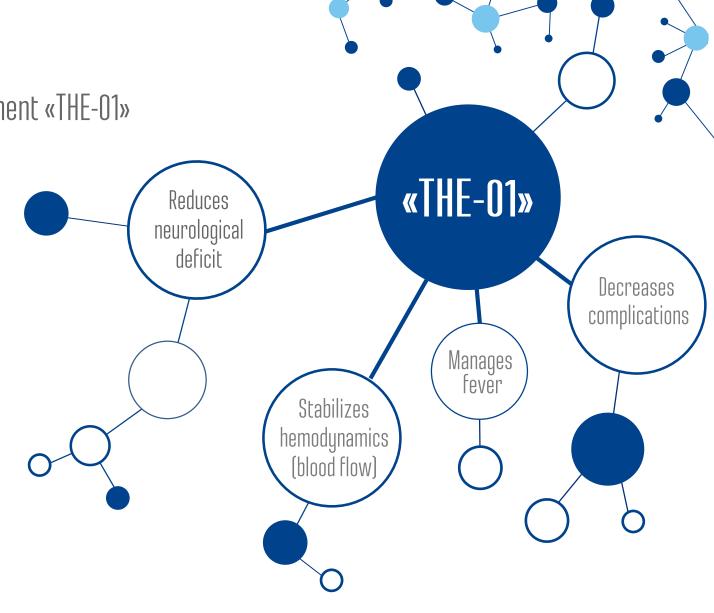
Can form local cerebral hypothermia Brain T⁰ C < Body T⁰ C

Can also induce general hypothermia (cool the whole body)

No complications or side effects

No requirement for sedation and myorelaxation

Applicable in various states of consciousness





Improves pharmacoeconomical characteristics of the medical care

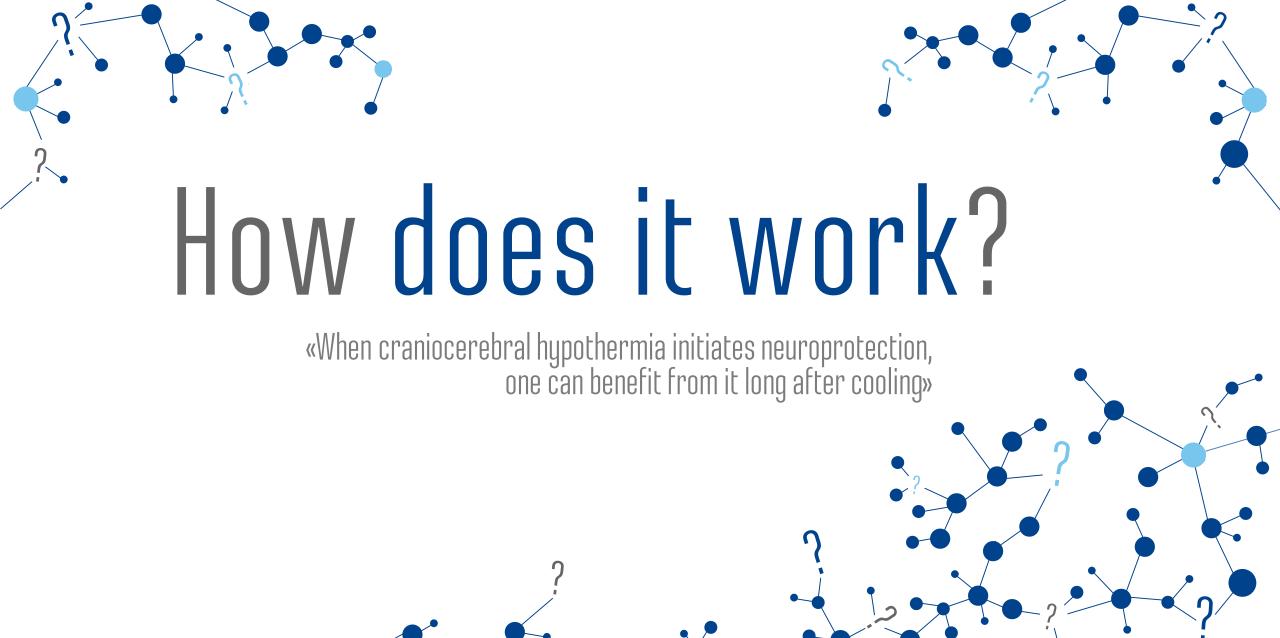
Improves cognitive abilities and reduces fatigue

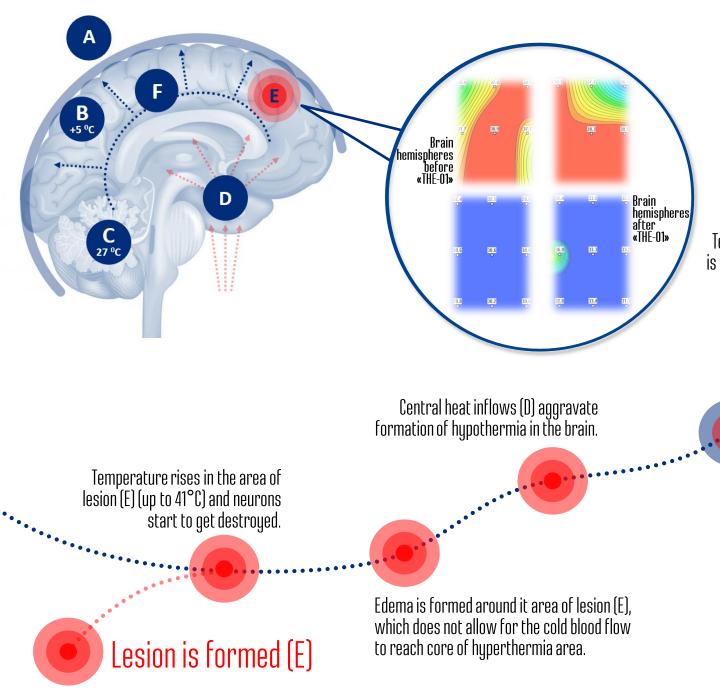
Reduces time in the resuscitation units by 1,5 times

Halves neurological deficit

Halves death rate among patients in critical conditions

More than people have been treated in Russia and Kazakhstan clinics with defined therapeutic effect and without side effects and complications





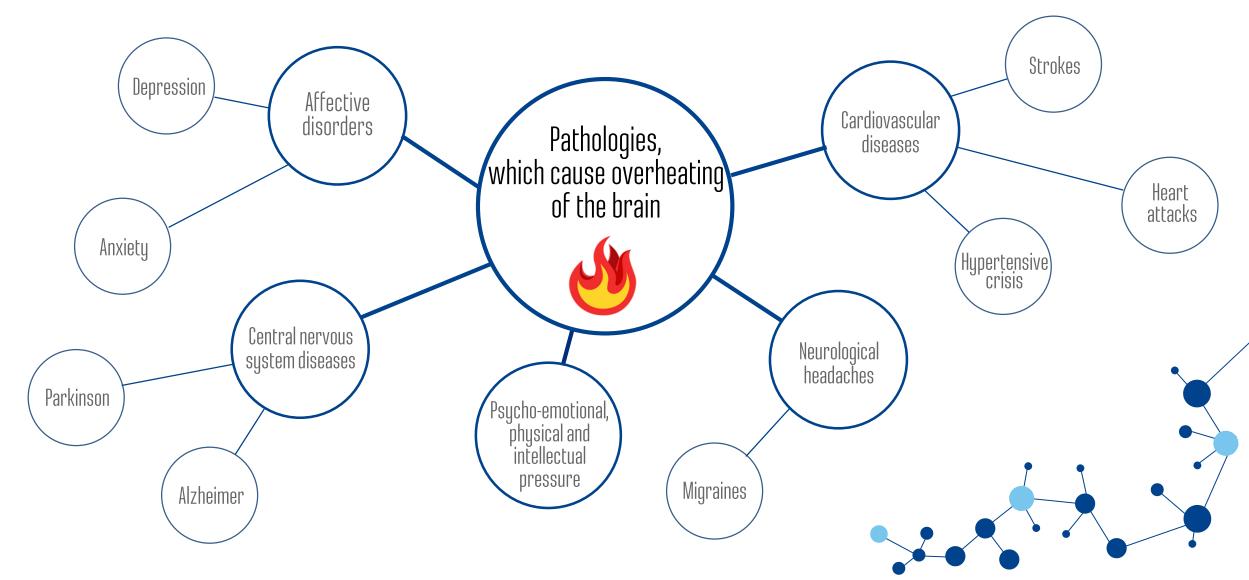
This enhances strength of cell membranes and decreases their requirement in oxygen, making them more viable.

Temperature reduction control is registered in the ear canal (C)

Cryoapplicator also cools down venous blood of the head which gradually spreads all over the brain (F), including core area of lesion (E), reduces it's temperature and initiates neuroprotection.

Cryoapplicator in the form of helmet cools scalp (A) and allows for contact heat removal from the hairy part of the scalp skin (B).

Wide range of application





«THE-01»

Original stationary model

Registered in RF

Registration certificate FSR 2011/11788 on 12.12.2017 Declaration of compliance POCC RU.MM25.Д01390 on 08.11.2017

Ready for serial production

Methodological recommendations
of for emergency medicine and neurology are approved





	Document	Date of publication	Expiry date
Device for human body local cooling/heading	RF Patent no. 94149	20.05.2010	22.12.2019
Device for human scalp and brain cord cooling	RF Patent no. 96762 dd. 20.08.2010	20.08.2010	08.04.2020
Heat exchanger for human body local cooling systems	RF Patent no. 97504 dd.10.09.2010	10.09.2010	08.04.2020
Device for human body local cooling	RF Patent no. 83369 dd.16.10.2012	16.10.2012	30.03.2026
Device for therapeutic hypothermia induction	RF Patent no. 126262, 2013	27.03.2013	28.08.2022
Device for correction of cerebral hyperthermia	RF Patent no. 2615283, dd. 04.04.2017	04.04.2017	12.11.2035
«Method of diagnostics and management of cerebral hypothermia syndrome»	RF Patent no. 2645927	15.06.2017	15.06.2037
«Device for conduction of controlled therapeutic hypothermia of the brain»	RF Patent no. 2653794	14.05.2018	25.08.2037
Application for «Device for induction of controlled hypothermia of the brain»	PCT/RU2017/000633	In progress	In progress
Application for «Method of therapy of knee joints using deep local hypothermia»	RF Patent no. 2018106482	In progress	In progress

Simplicity and cost effectiveness

are among many of our advantages over competitors.

We offer:

Individual approach and widest range of application: suitable for conscious state, coma, medical anesthesia

Safest and most convenient method: no pharmacological assistance required, no complications, no side effects

Reduction of expenses to hospitals

The most attractive price for equipment and consumables on the market cryoapplicators – reusable consumables (6 months)



We are ready for cooperation!

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