CREATION OF HEALTH-ORIENTED CITY SPACE AS A WAY TO MANAGE POPULATION HEALTH RISK

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Nowadays intense urbanization is taking place, cities with a number of dwellers over a million and urban agglomerations appear, and it calls for new ways how to preserve and improve health of urban population who are exposed to various risk factors, primarily environmental and behavioral ones. One of such ways could be development of a city as health-oriented physical, social, and semantic space; that is, it should be an environment that has natural, material, socio-cultural and other resources and they are used to create possibilities for individuals and social groups to preserve and improve their health. Parameters of a physical component in health-oriented space and their possible indicators can be found in foreign concepts and international projects ("healthy city", "active city", "age-friendly city"), as well as in Russian management practices ("Creation of comfortable urban environment" project, a concept of urban space quality). This article focuses on a detailed system of indicators that can be applied to assess whether a health-oriented urban environment is well-developed; the system is based on risk-oriented approach and includes two groups of indicators. The first one comprises indicators that describe a health-preserving component in urban space that allows to control health risk factors better; the second one includes indicators that are related to a health-improving component that helps to improve health and to promote stability. As morbidity and mortality among urban population vary greatly in their structure depending on countries and regions, health-oriented urban space should be created taking into account health peculiarities of population living on a specific territory.

In other words, detected leading causes for mortality and morbidity among urban population in Russia as well as manageable risk factors that cause them should serve as grounds for a creation of such a body-space urban environment that will be oriented at reduction in negative impacts exerted by chemical contamination of the environment on population health (planting, alternative transport infrastructure, compliance of drinking water sources with sanitary-epidemiologic requirements, quality of water supplies and distribution systems); such system will also provide conditions for sufficient physical activity and health nutrition.

Key words: urban space, health-oriented space, healthy city, health risk, risk management.

High urbanization rates in the second half of the 20th – beginning of the 21st century, typical for most countries of the world, resulted in a fact that today more than half of the population lives in cities (54.7%, according to the World Bank). In developed countries, this indicator in 2017 was at the level of 70–80% (in Germany, urban population share made 76%, in France: 80%, Canada: 82%, Great Britain: 83%, Japan: 94%). According to Federal State Statistics Service (Rosstat), in Russia the urban population exceeds significantly the rural (74.3% vs. 25.7%, respectively), and since 1959 the urban population share in our country has increased by more than 20%.

An intensive development of cities, emerging “million-plus cities” and formation of urban agglomerations, often counting of tens of millions dwellers (for example, the number of Japanese agglomeration of Tokyo-Yokohama is over 37 million people), made it relevant to find new ways for preserving and improving health.
of urban residents exposed daily to various risk factors. The latter include environmental (air pollution from toxic emissions of motor vehicles, noise pollution of urban environment, pollution of drinking water with industrial wastewaters) and social factors (atomization of urban community, a dominant of "depersonalized" interaction of citizens, high social inequality, mostly sedentary lifestyle). Modern cities architecture has a negative impact on urban population health: typical buildings, plurality of identical repetitive elements (for example, windows of multi-storey buildings), poor greening of new areas.

Numerous scientific studies show that citizens health has its own distinct features – in cities there is a higher risk of developing chronic diseases [1], a higher chance of being injured in a car accident [2], urban lifestyle characterized by irregular meals, eating fast food and low physical activity increases risk of overweight [3] and diseases of cardiovascular system [4]: in cities with a sizeable population number, communicacion of infectious diseases is probably higher than in rural areas [5].

Growth of urban population and multiplicity of factors that affect citizen health mainstreamed the task of urban development so that physical and social environment would contribute as high as possible to preservation and improvement of residents' health. This task was most shown up in the initiatives of the global movement "Healthy Cities" under the auspices of the World Health Organization (WHO), whose principles, among other things, are human-centered urban planning, increasing population resilience to adverse external effects of environment, fighting inequality regarding health [6].

In addition to the "healthy city" concept, WHO advocates the need to develop cities as spaces that are friendly to older people ("age-friendly city"), children ("child-friendly city") and people with disabilities ("disabled-accessiblecity"). The common ground between all of these concepts is that they are aimed primarily at prioritizing health in urban policies and combining the efforts of administrations at various levels, specialized institutions and local community to create in cities the conditions for living and personal development, ranging from its active and healthy evolvement (in case of children), and ending with productive and healthy aging (in case of the elderly). The integral principles here are equal access and fairness that defines an approach to a city as a physical and social space in which equal opportunities for saving and improving one's health by all categories of citizens must be ensured.

The idea of health-oriented city space ("health-friendly city"), like the concept of healthy cities, is the result of two interdirectional movements in the field of healthcare and public health, and in the field of urban planning and urban design. The first movement is related to social factors influence on population health. The first attempts of this movement were observed in the work of Health Councils in Italy of the Renaissance, the works and activities in the field of social hygiene by Frank I.P., the creation of public health system of Great Britain by the initiative of E. Chadwick [7], as well as the medical, anthropological and political activities of R. Virchow in the field of social medicine. These scientists and public figures work led to the formation and evolvement of socio-medical health paradigm, in which medicine is a social science destined to interfere in social and political life to solve health problems. Such an insight that improving social conditions in some cases makes it possible to extend human life faster and more efficiently than medical progress has also been associated with studying the effects of not only biological, but also social roots on epidemics, as well as analysis of link between low health indicators of slum dwellers and their living conditions.

The second trend, which promoted healthy urban space idea, is associated with a working (social, to a wider extend) issue, creation of public organizations in a number of countries (the Social Science Association in the UK, the American Social Science Association in the USA, the Union for Social Policy in Germany, etc.), having united the academic community and politicians for expert guidance in the field of social reform. This resulted, firstly, in the emergence of a number of urban studies in the field of living conditions and lifestyle of working and lower classes [8, 9]; secondly, led to urban planning movements (B.W. Richardson's "City of Health" [10], the concept and movement of a
'Garden City' by G. Ebenezer [11], the City Beautiful movement [12], the movement for middle class "settlements" in poor urban areas for educational and charitable purposes [13], etc.). The central idea was to achieve the highest possible life quality through certain principles in the field of urban planning. However, the practice of implementing a number of urban projects such as “Garden City”, as well as projects for demolition of slums and construction of high-rise buildings as a solution to the problems of poverty, led to the insights that physical urban environment significance in maintaining and improving health were supplemented by such socio-cultural factors as an importance of social ties, preservation of local community, etc. Thus, the problem of health turns out to be equally related to the issues of urban planning, self-organization of urban communities, as well as to medical services. In various fields of expertise and social practice, approaches to healthy city will focus on various aspects. Therefore, public health experts L. Dahl and T. Hancock, the creators of "Healthy Cities" project, suggested using a holistic approach to the healthy city concept, which in addition to public health included the ideas from sociology, urban geography, urban planning, ecology, politics, economics, philosophy and many other disciplines [14]. The need for a systematic approach to analyzing citizens’ health in the context of urban space is promoted by Sharp Roux A.V., emphasizing the “system essence” of both the ‘city’ and ‘public health’ [15].

City is an artificial habitat [16], a complex, self-regulating system, on the one hand, producing hazards to human life and health, and on the other, capable of providing effective ways to counter these hazards. Hence, the creation of a “safe urban environment” (for example, within the framework of “Safe City” program, operating in many cities of Russia and designed to contribute to improving security “on streets and roads”, to resist “criminal and terrorist threats”).

A safe urban environment presupposes safety of dwellers in terms of all sorts of threats, primarily of external nature. It is not only about citizen life and health, but also about their rights and freedoms, material interests, personal information, etc. Urban space safety implies the conditions created to minimize various risk factors effects on public health, i.e. the environment allows inhabitants to preserve health. The concept of health-oriented city space integrates, along with the health-preserving aspect, the health-improving one, which is explained by differentiating health factors into resistance factors (anti-risk) that have a positive effect on health, increase body's resistance to external threats, and risk factors that increase probability of developing diseases. With regard to public health, it is expected that the effectiveness of anti-risk factors will be higher than the elimination of regular risk factors. Also the key point here is that in medicine the paradigm of pathogenesis is being substituted for the paradigm of salutogenesis [17]. For the former, the origin and source of diseases, as well as their prevention, is relevant, while for the latter it is a search for sources of physical and mental health and ways to improve it. Thus, within the framework of health-oriented city space, health-preserving components allow for better control over health risk factors, and health-strengthening components – for improving health, i.e. promoting factors of resistance.

Health-oriented city space is understood to mean physical, social, and semantic environment of a city, which, with its resources (natural, material, socio-cultural, etc.) creates opportunities for individuals and social groups to maintain and strengthen their health.

The physical component of health-oriented city space is a body-space environment, “city design” [18], “first order reality” [19], including, for example, health care system infrastructure, parks and public gardens, pedestrian zones and squares, outdoor recreation and sports equipment (street sports mini-centers), etc. In social aspect, health-oriented city space is a world of social relations in which people interact with each other, create social facts and at the same time conform their behavior with coercive influence of these facts, in a word, construct social reality and objectify it. We are talking about social institutions, norms, values and behavioral practices aimed at preserving health, urban communities and institutions that contribute to the development of healthy lifestyles and self-preserving behavior through their activities. The semantic aspect of city space reflects it as a “field of values”, as a construct, as a value-semantic structure, and its analysis should be
based on phenomenological method, and precede the construction of socio-urban theories. City residents "themselves create an environment for their life" [20] endowing both physical and social objects of this environment with these or other values. Hence, it seems important not only to hold the existing infrastructure in a city (both physical and social) that is designed to preserve health, but also whether this infrastructure is perceived by citizens as suitable, affordable, and attractive to implement health preservation and promotion practices.

This study is focused on healthy-oriented city space as the world of physical objects, the physical (real) environment, the body-space environment of city residents, and analyzing its completeness in modern cities requires a clear system of criteria to evaluate the development of certain environmental components and set the direction for its further improvement.

One of the most comprehensive approaches to assessing the formation degree of a health-oriented city space was developed by the ideologists of “Healthy Cities” movement T. Hancock and L. Dahl, who proposed 11 city parameters for assessing its “health” degree [14]. These parameters describe not only the physical, but also the social space (for example, “community strength” or “participation and control”, reflecting the degree of local communities involvement in making meaningful decisions for a city and an ability to support citizens).

The physical component of health-oriented space within the framework of the healthy city concept is proposed to be characterized, first, through cleanliness, safety and quality of physical environment, including the provision of housing. Indicators of this parameter may be, for example, air pollution level, green spaces share in a city’s territory, share of housing that meets national or international standards. Moreover, physical environment influence is taken into account not only at the somatic, but also at the mental health and psychological comfort level, which is reflected, for example, in the concept of therapeutic landscapes [21]). Secondly, through possibilities for citizens to satisfy their demand for medical care, which is measured using a number of indicators: physical accessibility of outpatient and high-tech care, specialized rehabilitation institutions, etc. Third, through development of infrastructure aimed at meeting basic needs, whose indicators may be availability of grocery stores focused on different nutritional needs, or availability of drinking water.

A number of indicators for health-oriented city space development are proposed in another project of the World Health Organization “Active City”, aimed at stimulating active lifestyle of citizens, including physical education and sports [22]. As indicators for measuring the development level of an artificially created body-space environment (“built environment”), it is proposed here to use an accessibility of sports infrastructure (number of gyms, fitness clubs, swimming pools, street gym sites, etc.), as well as the development level of cycling and pedestrian infrastructure (toll and free bike paths, number of bike parking lots, and length and illumination of footpaths, including in forest-park areas, flexibility of pedestrian areas to the needs of limited mobility populations groups).

The basic definition of a city friendly to older people (age-friendly city) as having an “inclusive and accessible environment (both physical and social) that optimizes opportunities for maintaining health ... and ensuring rightful life quality for people as they’re aging” [23] makes the indicators proposed under this concept noteworthy. This is, firstly, the accessibility of green spaces and public places adapted to the needs of the elderly (for example, enough “seating areas”), secondly, the availability of sidewalks that are safe for health of the elderly (wide, free from high curbs or other obstacles and road crossings), thirdly, the development of urban hygienic infrastructure (for example, access to public toilets), fourthly, the provision of elderly people with medical care [24].

Indicators related to city environment health-focus are used by the British Economist Intelligence Unit (EIU), which makes annual rating of cities in the world by Habitat Safety Index (“safe cities index”) [25]. For example, when calculating the index, safe and quality food available for citizens is taken into account. Moreover, the 2017 report points out serious problems of small North American cities, called “food deserts”, where locals have to eat fast food or low-quality stuff from small stores [26]. Also, when calculating the index, accessibility criteria of health facilities, atmospheric air and drinking
water quality, proportion of population living in slums, road and transport infrastructure quality, and development of pedestrian-friendly urban environment are used. The latter implies not just a hypothetical opportunity for a pedestrian to go through a certain route, but such a quality and level of comfort of pedestrian network that the preferred way to get around the city is not a personal or public transport, but a walk. This is facilitated by a high level of safety (separation from auto-road), road surface quality, greening of a territory in the direction of walking, etc. [27].

Another EIU compiled rating – the global cities “liveability” rating contains indicators related to health of permanent residents of a city and its guests, such as humidity and temperature rating, climate discomfort for travelers, accessibility of sports facilities, road network and public transport quality, availability of good quality housing [28].

The concept of “global cities” [29], even more focused on economic aspects of city life, in some methodologies takes into account urban environment quality, since it is a factor in attracting labor resources to a region. Thus, the Global Power City Index, developed by the Institute for Strategic Urban Development with the support of Mori Memorial Fund (Japan), includes such indicators as: viability of a city (average rent rate for housing, variety of retail stores and catering and others), environment (CO2 emissions, density of sulfur dioxide and nitrogen dioxide, percentage of renewable energy, percentage of waste disposal, level of greening, comfortable temperature, etc.) and availability (punctuality and scope of public transport, deaths due to road traffic accidents) [30, 31]. Unlike most other approaches, the Global Power City Index takes into account also the subjective assessments – particular perceptions of urban space quality by residents [32].

Health oriented city space is taken into account in the concepts of sustainable cities (“sustainable city”, “eco-city”), slow cities (“citi-slow”), cities with low carbon emissions (“zero-carbon city”, “low carbon city”) [33], cities without cars (“car-free city”) [34] and garbage [35]. International Environmental City Standards developed by the experts of the British Columbia Institute of Technology and the American non-profit organization Ecocity Builders imply the achievement of certain levels in terms of indicators [36]:

- medial distance between housing, work and places for everyday goods and services purchases;
- functional qualities of construction materials in both residential and commercial buildings;
- environment friendly transport system (percentage of pedestrians, cyclists, public transport passengers and drivers of personal vehicles);
- air quality inside and outside premises;
- greenhouse gas emissions;
- quantity and quality of water supplies available;
- availability of healthy food (percentage of plant-based diet).

The approaches being developed in the Western Europe and North America aimed at minimizing anthropogenic pollution of urban environment and reducing its impact on health of residents cannot be directly transferred to the Russian practice of urban management due to significant differences in socio-economic, sociocultural and climatic parameters of the countries.

1 Passport of the priority project “Creation of comfortable urban environment” / Approved by Presidium of the Council on Strategic Development and Priority Projects under the President of the Russian Federation (Minutes No. 10 of November 21, 2016). Available at: http://static.government.ru/media/files/WoyaBZP00CYeyfDQ2Ai2tJ18zZHt7HzN.pdf (access date: 20.08.2018)

Passport of the priority project “Creation of comfortable urban environment” / Approved by Presidium of the Council on Strategic Development and Priority Projects under the President of Russian Federation (Minutes No. 5 of April, 18, 2017). Available at: http://static.government.ru/media/files/JEnYAAfDkMAyyfIajsAxDzkxXGPuAEJSu.pdf (access date: 20.08.2018)

2 On approval of the Method for determining Quality Index of urban environment for municipalities of the Russian Federation: Order of the Ministry of Construction of Russia No. 1494/pr of October 31, 2017. Available at: http://www.minstroyrf.ru/upload/iblock/ddc/prikaz-1494pr.pdf (access date: 20.08.2018)
As a result, certain developments in assessing the focus of urban space on preservation and strengthening health of citizens are proposed within the framework of national science and management practice.

So, in 2016, Russia adopted a priority project “Creation of comfortable urban environment”, aimed, inter alia, at reducing the incidence rate of the population in urban areas. The Russian Federation subjects are rated annually by the quality of urban environment assessed using the “quality index of urban environment for municipalities”. The calculating method of this index involves characterization of six types of space (housing and adjacent areas, greenery and water spaces, street infrastructure, social leisure infrastructure and public business infrastructure and adjacent areas, citywide space) by 5 criteria (safety, comfort, environmental friendliness, identity and diversity, modernity of environment), each one represented by a certain indicator in accordance with the named types of space. The health of a city can be described, for example, through such indicators as share of public green areas (parks, gardens, etc.) in the area of all green spaces in general, pedestrian accessibility index, safety of movements near institutions of social services for citizens, accessibility of sports grounds for citizens, etc.

As part of “urban space quality” concept Ilyina I.N. identifies a number of parameters that can be attributed to the physical aspect of a health-oriented city space: health, safety, affordability of quality housing and services, accessibility to urban public recreation and open spaces, a variety of transport accessibility options, waste management, minimization of environmental pollution and this process management, adaptation to climate changes and natural disasters mitigation. The urban environment quality is proposed to be assessed according to three classification blocks: quality of “framing” (basic) infrastructure of a city, quality of urban space, and safety and comfort of living, and availability of services for all socio-demographic categories of population.

A number of approaches emphasize the quality assessment of town-planning objects viability from the point of their socio-psychological successfulness. For example, criteria for analyzing planning decisions, divided into characteristics of socio-psychological safety and socio-psychological comfort, and satisfaction with living environment, can include the presence of identifiable boundaries of public and private space, residential areas planning following the “closed spaces” principle, possibility for visual viewing of a territory, yard areas arrangements, landscaping, sports grounds, level of provision with elements of social and engineering infrastructure, extending functions of structural components in residential environment, and others.

The considered approaches are complex, focused on ensuring the high quality of citizens’ life and stable urban development. Preserving and strengthening urban population health is a more local task, the specific tools and developed systems of indicators are required to ensure effective management of citizen health. One of the solutions to this problem may be a system for assessing the degree of formation of a health-oriented city environment, following a risk-based approach.

The health of urban environment in the context of managing public health risks means that the physical space of a city is, firstly, focused on minimizing the impact of environmental and behavioral factors on citizens health, and secondly, increasing human body resilience, preventing “the root causes of poor health” [42], “the disease origins” [43]. For example, anti-noise screens on roads within the city limits or public places that are free from smoking allow you to keep residents healthy, reducing the risks caused by acoustic and chemical pollution of environment. Outdoor exercise complexes or bicycle lanes are more aimed at improving citizens’ health.

Since the structure of urban population morbidity and mortality has the signified country and regional peculiarities, the creation of a city’s health-oriented space should be carried out taking into account the specific health aspects of a particular territory’ inhabitants. Thus, the leading cause of urban population mortality in Russia are diseases of circulatory system (the share of this category causes in total citizens mortality in 2017, according to Rosstat, was 48%, including of ischemic heart disease which made up 26% of cases, of cerebrovascular disease: 15%). The contribution of this cause to mortality in the
largest cities of Russia is almost the same [44]. The controlled risk factors for circulatory diseases include unhealthy lifestyles (smoking, low levels of physical activity, malnutrition [45]), chemical pollution of natural environment (air and drinking water [46]), as well as socio-psychological factors (for instance, depression, various anxiety symptoms and disorders [47]). Malignant tumors are the second most common cause of death among urban population in Russia (16.9%), including malignant neoplasm of digestive organs: 6.4%, respiratory organs: 3%, female genital organs and mammary gland: 2.6%.

According to the US National Cancer Institute [48], the leading modifiable risk factors for cancer are anthropogenic pollution of environment with carcinogenic substances and low level of self-preserving behavior (alcohol abuse, smoking, improper diet, untimely access to a doctor). The main cause of morbidity among urban population in Russia is respiratory disease. So, in 2016, the prevalence of acute upper respiratory tract infections, per 100 thousand city dwellers, was 25251.63 cases [49]. The leading risk factors for development of respiratory diseases in modern cities are chemical pollution of atmospheric air [50], living conditions quality, and also smoking [51].

Hence, developing a modern Russian city as a health-oriented one implies a targeted activity of municipal authorities and local communities towards creating such a body-space environment, which will, first of all, reduce the level of effects on citizen health from environment chemical pollution, and provide conditions for an adequate level of physical activity and healthy diet.

To assess the degree of health-oriented city space formation in practice it is proposed to use a system of indicators (Table). This assessment can be done within the framework of monitoring the quality of urban living environment, socio-hygienic monitoring and the system for monitoring risk factors for non-communicable diseases provided for in the draft Strategy for Formation of a Healthy Lifestyle of Population, Prevention and Control of Non-Communicable Diseases for the period up to 2025 developed by the Russian Federation Ministry of Health [52].

Developing a city as a health-oriented one involves not only the definition of indicators for physical space formation degree that contributes to health preservation and strengthening, but also to establishment of their target values, which should be a guideline for implementation of effective territorial management tasks. One of the approaches may be to choose target parameters in the “healthiest” cities in the world. For example, according to the World Cities Culture Report prepared by BOP Consulting Editorial Team in 2015, the share of public green areas in Sydney (Australia) and Vienna (Austria) made 46%, in Shenzhen (China): 45% [53].

In Russia, today, the system of regulations has partially developed in the formation of health-oriented space of a city (see Table). For example, Code 42.13330.2016 “Urban planning. Planning and Development of Urban and Rural Settlements. The updated version of SNiP 2.07.01-89” defines green area of a micro-district (a quarter) for residential area multi-dwelling development at the level of at least 25% of a quarter's area. In addition, it indicates the need for landscaping at least 50% of yard areas with trees and shrubs. In March 2018, the Ministry of Sports of Russia approved the criteria for the minimum allowable provision level with sports facilities based on the indicator “one-time capacity of a sports facility” of 122 persons per 1,000 of population. This indicator was calculated on the basis of the set strategic goal for physical culture and sports development in Russia – attracting the entire working-age population (under 79 years old) and children (aged from 3 years) to regular (3 hours per week) physical culture and sports activities by 2030.

In some regions and cities of Russia (Ulyanovsk Region, Tver, Omsk), the concepts and development programs for cycling, bike transport and bike-cycling infrastructures, including separate target indicators, have been

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3 Health care in Russia. 2017 / Stat. Sat Rosstat. Moscow, 2017, 170 p.
4 Code 42.13330.2016 Urban planning. Planning and Development of Urban and Rural Settlements. Updated version of SNiP 2.07.01-89. Code: electronic fund of legal and regulatory and technical documentation. Available at: http://docs.cntd.ru/document/456054209 (access date: 20.08.2018)
Table

| No | Risk factors for urban population health | Characteristics of urban space | Indicator |
|----|-----------------------------------------|--------------------------------|-----------|
| 1  | Atmospheric air chemical pollution       | Green spaces areas              | - Green spaces area of public use, per inhabitant (m²)  
|    |                                         |                                | - Level of green spaces in housing development areas (%)  
|    |                                         |                                | - Environmental stability factor      |
|    |                                         | Formation degree of alternative transport infrastructure | - Share of roads equipped with dedicated lanes for public transport in the total length of local roads (%)  
|    |                                         |                                | - Ratio of the length of roads equipped with lanes for cyclists to the total length of local roads  
|    |                                         |                                | - Number of public bicycle parking places, per 1 inhabitant  
|    |                                         |                                | - Number of parking spaces in the adjacent bicycle parking, per 1 resident |
| 2  | Drinking water chemical contamination    | Compliance of drinking water supply sources with sanitary and epidemiological requirements | Share of surface sources for centralized drinking water supply having no sanitary protection zone (%) |
|    |                                         | Quality of water supply and distribution network | - Share of water pipes provided with water purification and disinfection treatment (%)  
|    |                                         |                                | - Share of sewer networks requiring replacement (%)  
|    |                                         |                                | - Share of treatment facilities requiring capital repairs (%)  
|    |                                         |                                | - Share of sewage treatment facilities equipped with wastewater sludge treatment (%)  
| 3  | Sedentary lifestyle                      | Formation degree of infrastructure for physical culture and sports | - Number of sports facilities of various types, per 100 thousand people  
|    |                                         |                                | - One-time capacity of sports facilities of various types, per 10 thousand people  
| 4  | Improper diet                           | Formation degree of healthy nutrition infrastructure | Provision of spaces for retail and catering, per 1,000 people  
|    |                                         |                                | - Number of public catering enterprises providing social catering services  

approved. However, the values and indicators proposed in the context of national regulatory documents cannot be considered as targets in the long term, since they are aimed at ensuring a minimum level of health-oriented city.

In general, the urgent task is to strengthen the development focus of Russian cities on preserving and strengthening the citizen health, on integrating the decisions on green areas arrangement into the system of priority actions, creating a healthy nutrition infrastructure and physical activity for all categories of citizens, and ensuring a safe environment. A considerable problem here is the lack of criteria worked out for the formation of a health-oriented city environment, and their low integration into performance indicators of municipal programs. The synthesis and discussion of the best practices for
organizing various components of health-oriented city environment both in Russia and abroad is of relevance.

The health-focus of a modern city space is not just a way to improve people’s living conditions quality, but a key to a successful socio-economic development of a city, a way to accumulate its human potential. Solving the problem of developing a health-oriented city environment requires the consolidated actions of municipal authorities, expert community, business entities, public organizations and population. In addition, the ability of urban space to provide opportunities for preserving and strengthening citizens’ health means, it’s formed not only at the physical, but also at the social and symbolic levels, i.e. integrated development.

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