Problems of health education in rural areas in Poland

Marianna Charzyńska-Gula¹, Katarzyna Sygit², Marian Sygit²,³, Małgorzata Goździewska⁴, Beata Dobrowolska⁵, Edyta Gałęziowska¹

¹ Chair of Oncology and Environmental Health Care, Medical University, Lublin, Poland
² Department of Health Education, Szczecin University, Szczecin, Poland
³ Institute of Rural Health, Lublin, Poland
⁴ Department of Health Informatics and Statistics, Institute of Rural Health, Lublin, Poland
⁵ Chair of Nursing Development, Medical University, Lublin, Poland

IntrodUction

Despite the achievement of spectacular successes in, among other things, the reduction in premature mortality on the level of the general population, the maintenance of considerable inequalities in health between population groups occupying high and low positions in the social structure is still observed. The differences in standardized coefficients according to education level are tremendous and maintain themselves in time, despite prophylactic actions focused mainly on the prevention of diseases and the problem of alcohol addiction which are carried out under health promotion campaigns [1]. Studies of inequalities in the access to health among Polish society have confirmed on many occasions the thesis that university education and living in a rich neighbourhood are associated with both better health and a greater chance for its maintenance by health promoting behaviours which decrease the risk of disease [2].

Health promotion is aimed at the reduction of the differences in the access of society to the resources determining the frequency of occurrence of pro-health behaviours. This goal may be achieved provided that health promotion is a conferred status of a multi-sector strategy which would regulate the process of solving health problems by constructing health resources and increasing the level of egalitarianism in access to these resources. This means the use of the socioeconomic and not biomedical paradigm in health policy [1]. Among these resources is health awareness which is shaped as a result of proven educational programmes inbuilt in evidence based, interdisciplinary health promotion strategies [3, 4, 5, 6]. Health education carried out in a rural school creates real chances for acquiring this resource.

In literature, there is much evidence supporting the thesis that the formal system of education provides a great opportunity for exerting a positive effect on children and adolescents. In the socialization process, the family is of dominant importance for a small child, and many studies confirm that the examples of behaviours, e.g. nutritional, associated with tobacco smoking or physical activity, are fixed in childhood, and most frequently continued later in adult life [7]. However, in the general strategy of health promotion, school as a place of education cannot be omitted. School is the place in which 'health is created'. As a mass and common organization it enables the systematic health education of the young population, and also indirectly, of their parents and caregivers, thus being the most cost-effective, long-term investment in the health of society [8, 9]. In the discussion about the effectiveness of actions undertaken in the fields of health promotion and health education, attention is paid to...

Abstract

Health promotion is aimed at the reduction of the differences in society’s access to factors determining the frequency of occurrence of pro-health behaviours. This means the construction of health resources and increase in the level of egalitarianism in access to these resources. Health education carried out on a high level in rural schools provides actual possibilities for gaining these resources. Many examples of educational practices confirm that the establishment of health conditioning and health behaviours of schoolchildren, and the diagnosis of rural school on the background of the specificity of the community in which it functions. These are a basis for the construction of effective educational programmes, and not analysis of the differences between urban and rural children and adolescents. In Poland, the performance of health education in rural schools encounters many problems associated both with the lack of infrastructure for health promotion, insufficient perception of the importance of health education at school by the educational authorities, underestimation of primary health care, low activity of the local governments, and lack of qualified rural health promoters. Current health education in Polish rural schools deepens inequalities in access to health, and postpones the moment of providing equal opportunities for rural and urban schoolchildren with access to the resources which condition the maintenance or even an enhancement of health. The objective of the study is to present selected problems in the performance of health education in a Polish rural school in the light of international trends, experiences and discussions related with an optimum form of health promotion in the environment of rural a school and the community.

Key words

health education, rural school, rural schoolchild, school nurse, inequalities in health
the differences between so-called short-term parameters of effectiveness and the effect of these parameters on long-term results finally observed in the sphere of health [10, 11]. The most direct parameters of effectiveness concern changes in individual mentality and skills, which are the effects, among other things, of school educational actions within the framework of a wide popularization of health [12].

The objective of the study is the characteristics of problems in the performance of health education in Polish rural schools with regard to international trends, experiences and discussions concerning the optimum shape of health promotion engaging rural local rural communities, and particular consideration of the importance and tasks of a rural school.

School health education – a brief historical outline. In the presented study the term ‘health education’ was adopted, being aware of the terminology problems occurring while considering education on behalf of health in the school environment [13, 14, 15, 16, 17].

Various forms of teaching people how to avoid diseases and what to do in illness, how to maintain health, as well as hygienic indications and guidelines, have accompanied the development of medicine since the dawn of time. The genesis of school health education was the year 1950, when the WHO Expert Committee on School Services was founded in Geneva [18]. The subsequent report by the Expert Committee on Health Education of the Public, published by the WHO in 1954, became the foundation for contemporary schools promoting health [19, 20, 21]. In the 1960s, awareness of the necessity to lead towards a social change consisting in the popularization of health promoting behaviours very clearly increased, and was accompanied by a simultaneous fascination with school health education as the primary tool to obtain this change. Ascribing health education the greatest importance resulted from, on the one hand, a conviction that formal institutions, especially schools, are the driving force of new thinking about changes in the lifestyle of the population, and on the other hand, searching for the sources of the majority of behaviours of importance for health during the period of childhood and youth [22]. The famous report by Lalonde drew attention to the necessity for supporting individuals – also those functioning in the role of schoolchildren – in their everyday struggles [12, 17, 20]. The discussion concerning the place of health education in health promoting actions, finally ended up with the Declaration of the Alma Ata. At that time, it was assumed that only integrated actions in many sectors provided the opportunity to exert a positive effect on the health of the population, and increase the chances for the effectiveness of health education – including in schools [3].

M. Demel divided the history of health education in Poland from the pre-history of health education to the period of the Polish People’s Republic [15]. The latest history of health education was supplemented by E. Charońska [13] who distinguished the phase of health pedagogy with a most important event – the report by M Demel entitled: About health education [14], phase of stagnation in 1980s, and health education in health promotion related with the health promotion in schools movement.

Health education – its dimensions and importance for health. Health education is an important, supporting element of repair actions (therapy of diseases), prevention of diseases and health promotion. In order to actively participate in the process of treatment of diseases, prevent diseases, control health and strengthen its potential we must know, understand, and wish to do so [23, 24, 25]. Health education is needed by patients suffering from chronic diseases, the disabled, as well as those in states of acute illnesses and injuries. Each contact by a physician, nurse, physical or other therapist with a patient should contain an educational component. Education of chronically ill people is currently considered as a basic component of the overall therapeutic procedure, and should be present at all stages of diagnosing and treatment. This exerts a beneficial effect on the results of treatment, improvement in general wellbeing and quality of life of those who are ill, satisfaction with medical care and reduction in the costs of such care; it also allows patients to make proper, conscious decisions in the process of treatment.

“Therapeutic education” is especially important in the process of treatment of chronically ill children – often functioning as schoolchildren. Education accompanies each prophylactic action, at each stage of prophylaxis, including the prevention of diseases and various disorders, risky health and social behaviours creating a serious risk of disease, disability and decrease in the quality of life, not only of individuals, but frequently entire families and local communities. Health education is also the key component of health promotion. Adequate competences obtained in the process of health education are necessary to participate in promotion actions, change own life style and own environment, in order that these changes translate into ‘health benefits’. Health education is a component of actions undertaken in all areas of health promotion. In the health promotion model biased towards its empowerment, health education performs two basic functions:

- creation of conditions in which individuals learn about health and diseases, strengthen their capabilities to act on behalf of own health and the health of others, and become subjects of these actions. Thus, empowerment is a direct effect of education; people may change their life style and, consequently, improve their own health and form communities capable for actions. In this way, a social change may take place which is the goal for which health promotion strives;
- exerting an effect on the desiderate occupational groups which create public policy on various levels and create environments supporting health [24].

Various changes, especially cultural and socioeconomic, associated with the change of the health paradigm, resulted in the development of three relationships present in the health education process, between the sender and recipient. The character and dimension of these relationships is especially important for an understanding of the conditions which should be satisfied by health education.

In the authoritative model (‘medical’ and ‘paternalistic’), based on the precise transfer of information and values (which to do not to loose health), the information transferred travels in one direction – from the teacher – e.g. physician, school nurse – to the schoolchild. This is an emotionally neutral instruction aimed at protecting a schoolchild against the occurrence of health risks and diseases. According to the extreme approach, this model is based on Pascal’s principle: “The recognition of hygienic principles should be enforced by means of standards, health principles, the basis of health,
because law without power is powerless’ [11, 12, 26]. The effectiveness of this model is very low. An individual obtains new information, but does not put them into practice because e.g. that individual has not been convinced about the presence of various variants for the implementation in own life of a change which should be made. The reflection of the low effectiveness of this model is the percentage of patients who fully respect the recommendations obtained from a physician, which is one-third of the total number of patients who have been given such recommendations – irrespective of the fact whether they concern pharmacotherapy, or the desired changes in the style of life of a patient.

The participant model is based on the exchange of information between the teacher and the student who actively seeks advice, knows own living conditions, wishes to improve own state of health, wants to exchange with an expert and establish, if he/she thinks and does well. Here, information passes in two directions, and both sides trust each other. In this model, the student is approached ‘seriously’ – i.e. as a person capable of evaluation and using the advice provided. In this model, the primary goal is the shaping of specified skills facilitating the adaptation of individuals and groups to various difficult situations and limitations encountered in daily life which negatively affect health. The participant model considers also the teacher-group relationship which concerns active groups. The main objective of information exchange is establishing the best way of implementing a social change – from among other options. This means a specific ‘opposing confrontation’ to inequalities in health with the participation of the ‘victims’ themselves – those whom this inequity concerns. This aspects of the participant model occurs in the settings approach [20, 27]. The effects of the application of this model are considerably greater than those of the previously discussed model; however, it is not entirely sufficient because it still concerns the elimination of what is bad for health (prevention), while the activity of an individual or group occurs in relation with the willingness to avoid some threat or level out an inequality. Also, in this relationship, the expert/teacher still dominates.

The promotion model assumes mutual provision of services between two parties in the educational process in which there is neither a classic teacher nor a student. There are people who have different competences and approaches, but to an equal degree are interested in the change which is supposed to be brought about by the education which has begun. Their contact consists in the establishment of the differences occurring between the educator and the person who is educated, in order that the latter person, acting with the support of the educator, changes own experiences by self-reflection and self-organization. In this model, the climate of the relationship between both parties in the education process is extremely important. On assumption, it should be conducive to cooperation, and consequently, result in ‘acting with someone’ and not ‘on behalf of something’ [20, 28]. In this model, the chance to achieve permanent success, i.e. equip the person who is educated in the skills of living healthily, is the greatest. Despite the fact that the first model, the merits of which cannot be denied, is very much rooted in the Polish awareness, one should incline towards the selection and implementation of educational strategy consisting in the creation of a combination of all relationships. The experiences of many researchers analyzing the conditions of effectiveness of school health education unequivocally indicate that the criterion which decides which model will be dominant is a concrete, widely understood, individual and environmental situation of the peer group of the schoolchild, adults surrounding the child, and members of the local community who need or seek for a professional adviser/teacher in health matters [12, 20, 29, 30, 31, 32].

The rural and urban schoolchild – similarities and differences. Studies concerning the differences between children and adolescents living in rural and urban areas do not provide unequivocal results, and many researchers mention difficulties in the diagnosing of clear differences [31, 32, 33, 34]. A similar presumption may be made while considering reports pertaining to Polish children and adolescents. No significant differences are observed in body weight of rural and urban adolescents [35]; however, clear and alarming differences are noted with respect to actively spent time and preferences concerning leisure in combination with physical activity. Rural adolescents more frequently declared a passive way of spending leisure time and devoted less hours weekly to various forms of active leisure, also after school [36, 37, 38]. According to some studies, rural adolescents significantly more often consume alcohol, compared to their urban contemporaries – including inebriation and alcohol addiction, and more frequently addiction to smoking tobacco [39]. The studies within the last, sixth edition, of the Health Behaviour In School-Aged Children (HBSC) of 2010 showed that young people from urban areas significantly more often smoked tobacco [40, 41]. This result is consistent with the results of studies concerning the attitudes of Poles towards tobacco smoking: rural inhabitants are most rarely regular smokers; nevertheless, simultaneously they are more tolerant with respect to smoking at home and in the presence of non-smokers [42]. Also, no significant differences are noted in the analysis of the pattern of alcohol consumption by rural adolescents, compared to the all-Polish tendencies.

The type of school attended by a young person, gender, and difficulties in access to alcohol at the place of residence are more important than the place of residence [43, 44]. A relationship was confirmed between the registered behaviours of rural children and adolescents and education of their parents, and the economic situation of the farm. This relationship is directly proportional. The higher the education level and material status of the child’s family, the better and more healthy promoting profiles of nutritional behaviours of the child [29, 43]. Generally, young people from the rural areas more frequently than their urban contemporaries place health on the highest position among life values, and evaluate their state of health in slightly more positive terms, compared to the urban inhabitants [46]. Rural and urban adolescents differ less with respect to behaviours, attitudes, and values diagnosed in the context of health, but more by the possibilities created by the surrounding health promoting infrastructure, rather than the lack of this infrastructure [47].

A comprehensive characteristic of the differences in behaviours, opinions and attitudes in the group of rural and urban adolescents attending secondary and higher schools was provided by studies by the Department of School Medicine at the Institute of Mother and Child in 2006 [48]. At that time, urban adolescents evaluated their state of health in slightly better terms than their rural contemporaries;
however, they more frequently reported the occurrence of chronic diseases and disabilities, more often used computer for a long time (4 hours and longer), more frequently never had breakfast during school days, smoked cigarettes every day, had consumed marihuana more than twice in their lives, and more often started sex life earlier. In turn, rural more rarely than urban adolescents considered that others care for them very much and are interested in them, that they can easily obtain practical assistence from their family, acquaintances, neighbours, and that teachers encourage them to express their own opinions and are kind. In addition, rural adolescents more rarely liked their school, more rarely mentioned that they eagerly attended school and liked the classes at their school, and more rarely spent five or more evenings with their friends outside home.

Rural adolescents more often lived in complete families, with many children, with grandmother and grandfather or another person, had parents who possessed an education level lower than secondary school, both parents had no employment, evaluated their family as poor, did not possess a computer, and did not go on vacations with their family. The last result may be associated with the overloading of the vast majority of children from agricultural families with work activities, which are not only maladjusted to their physical capacity, but are also dangerous [49, 50, 51].

The Health Behaviour in School-Aged Children (HBSC) study indicates that it is justifiable to consider in the analysis the conditioning of health behaviours of schoolchildren, the socio-economic situation of the surroundings where the schoolchild lives, socio-economic status of the family and relations within the family. Very often the above-mentioned factors are important for both the type and intensity of risky behaviours among children and adolescents. Although there is no doubt about the effect of socio-economic status on the health of small children and adults, the conclusions pertaining to adolescents are not so unequivocal and may be related with the stronger effect of the peer group than family on choices and health behaviours [41]. The results obtained in the latest HBSC study of 2010 confirm the protective role of good family relations for health and wellbeing of adolescents [52, 53], although while analyzing the conditioning of health behaviours of rural children and adolescents the problem of importance of health awareness of their parents is also mentioned. Frequently, despite good communication with children, they are not good patterns of such behaviours and do not know what behaviours their children show [54].

Good education practices in a rural school

Experienced in health promotion and education related with the educational didactic environment such as school or nursery school univocally indicate the concept of Health Promoting School as the concept which brought about the greatest effects. This concept is nearly thirty years old. It was developed in Europe as the second, following ‘Healthy Towns’ health promotion programmes. In Poland, the Health Promoting School was implemented in 1991. Then the WHO Regional Office for Europe initiated this project in four countries which were undergoing a political transformation. Apart from Poland, these were the Czech Republic, Slovakia and Hungary [27]. School promotes health and its value, behaviours enhancing and protecting health, plays an integrating role with respect to undertakings supporting health, develops health culture combining it with the cultural heritage and regional traditions.

Similar to prophylactic programmes, many teams of researchers worldwide encounter difficulties with the measurement of the effectiveness of health education. This problem was best solved in the United States, where the National Health Education Standards are in effect, which specify what should schoolchildren know and be able to do. Since 1987 in the USA health education is one of eight components of the overroll health programme at school. These are: health education, physical education and activity, health services, psychological health and social services, school meals, school policy, physical environment, health promotion among teachers and other staff, including contacts between school, and parents and local community [24, 33, 31, 55].

In the relevant literature many reports are found which confirm the value and effectiveness of various health education programmes performed in the environment of a rural school. For example:

- the Malaysian programme engaging many people from the environment of a young schoolchild (teacher, parent) in order, among other things, to reduce the weight of the school satchel [56];
- the Swedish programme is an example of a multi-sector health promotion programme for nursery schoolchildren and young schoolchildren [57];
- Greek proposals for the health promotion of young schoolchildren indicate the way for the improvement of the quality of life of the population, and the socio-economic development of the country [58];
- the Brazilian project focused on a reduction in the consumption of high calorie snacks by schoolchildren [59];
- and the four-year American programme for a health Promoting School, effective in the modification of nutritional behaviours and level of physical activity of adolescents attending schools in poor rural regions, confirmed the importance and effectiveness of a specialist infrastructure in the form of technical assistance ‘adjusted’ to the specificity of individual schools and environment in which they functioned [60, 61].

Reports concerning the participation of members of the rural community health education, representatives of primary health care – nurses, physicians and others specially prepared for the role of a ‘rural health educator’ are also very interesting. For example:

- the programme for good communication with the parents of overweight and obese schoolchildren in order to implement changes in the nutrition of these children, developed by American school and family nurses [62, 63];
- the Australian programme CHAMPS, performed by school medical services in elementary schools, activation of teachers, parents and schoolchildren to the desired nutritional changes and physical activity [64];
- oral health promotion programmes performed in Canada and Uganda in the environment of rural schools which confirmed the effectiveness of the work of an educator-dentist [65];
- the American programme for ‘rural medical educators’ supporting family physicians in school health education, and addressed to the members of the local community [66];
- the medical pedagogic programme for levelling out inequalities in access to health in American junior high schools in rural areas, focused on searching for partners in...
and the situation was clearly worse than in the school year; functioning in rural areas, had no such consultation room, and nearly a half of technical schools and special schools; elementary schools, more than a half of junior high schools, element affecting the quality of actions undertaken in school consultation room as an adviser, is an important in the field of health promotion. All the negative elements in the core curriculum of the subject they taught, and did not gymnastics for schoolchildren with detected postural defects. For PE classes, and a lack of implementation of rehabilitation classes, and there was a lack of provision of safe conditions tendency in the active participation of schoolchildren in PE education core curriculum has not been implemented. In 75% of schools, no actions were undertaken to prevent a downward education core curriculum has not been distinguished, e.g in the form of a separate ‘dummy’ [69, 70, 71, 72].

Earlier, during the period 1997–2009, school education was clearly present in school life in the form of an ‘interdisciplinary path’ and in the curricula of the remaining disciplines, despite the fact that within the framework programme a place and time for the performance of contents within health education have never been distinguished, e.g in the form of a separate subject ‘health education’ [73]. The solution adopted in the core programme of general education, which is still in effect, has been critically evaluated. It was indicated that in the future efforts to distinguish this sector of education should continue to be undertaken in order to create conditions for its modern and effective performance, and the staff which would guarantee its high quality [74].

The problems of Polish health education in schools are enhanced by the state of performance of physical education. The supervision by the Supreme Control Chamber carried out during the period 2007–2009 indicated that in every fifth elementary and junior high school the new physical education core curriculum has not been implemented. In 75% of schools, no actions were undertaken to prevent a downward tendency in the active participation of schoolchildren in PE classes, and there was a lack of provision of safe conditions for PE classes, and a lack of implementation of rehabilitation gymnastics for schoolchildren with detected postural defects. The PE teachers were not interested in the contents of the core curriculum of the subject they taught, and did not develop its self-designed versions expanded by other contents in the field of health promotion. All the negative elements of this evaluation were more intense in rural than urban schools [75].

The activity of a school nurse, and her presence in the school consultation room as an adviser, is an important element affecting the quality of actions undertaken in school. Unfortunately, in the school year 2009–2010, 70% of elementary schools, more than a half of junior high schools, and nearly a half of technical schools and special schools functioning in rural areas, had no such consultation room, and the situation was clearly worse than in the school year 2004–2005 [76, 77, 78]. Generally, the bad situation of school health education is enhanced by the lack of coherence in creating prophylactic health care of children and adolescents in the education environment [78].

Despite the lack of logistic, financial and political support, and many other difficulties, in Poland there are programmes of school health education which are worth copying on an all-Polish scale. From 1997, in many schools – mainly those rural areas and in small towns – the Environmental programme of health education at school has been carried out, called the Lublin Project. This project assumes the undertaking of long-term, 12-year actions in primary, junior high, and high schools. The main goals of the project are addressed to schoolchildren and representatives of their families and the school environment [79, 80]. The effects of the programme were registered in each group of its addressees, i.e. schoolchildren, their parents and teachers in charge of the programme [12].

An example of a promotional programme which is the germ of systemic solutions is the Schools for European Health Programme (formerly the Health Promoting Schools Programme). In 2010, the list of members of the network of these institutions (schools and nursery schools) exceeded 2,000 [1]. Unfortunately, the concept of Health Promoting Schools in Poland evolved in the wrong direction. When the project started it was assumed that the Health Promoting Schools Programme had three features:

1) health education as an indispensable element of the school curriculum;
2) ethos of health at school, i.e. a ‘disguised’ programme for changing the physical environment, atmosphere, policy, and organization of school activity supporting health of the members of the local community;
3) cooperation with parents and the local community, i.e. health promoting activities extending outside the school [27].

The new Polish model of Health Promoting Schools (since 2002) contains five standards for the quality of school activity, and clearly refers to the key document in Polish schools – the core curriculum of general education, and other legal acts currently in effect – which, in the situation of the lack in the core curriculum of a strong position of health education, exerts an unfavourable effect of the total project [27, 69]. In rural schools, good health education programmes are carried out, addressed mainly to schoolchildren, but sometimes also to their parents and adult members of the local school and rural community where these programmes function (e.g. addictions prevention programmes ‘Look differently’ by A. Kołodziejczyk et al. [81], anti-tobacco programmes ‘Please do not smoke in my presence’, and ‘Find the right solution’ by J. Szymborski et al. [82], or the ‘Keep fit’ project co-organized by the Chief Sanitary Inspectorate and the Polish Federation of Food Producers Association of Employers within the performance of the WHO strategy concerning diet, physical activity and health [83]). However, due to the attractiveness of these projects, a relatively short period of performance and lack of proven evaluation instruments, despite the great effort made in the preparation of these programmes, they do not contribute to obtaining permanent effects in the form of pro-health changes in the behaviours of schoolchildren, or expected transformations in their families and local communities.
Schools in the rural area – new challenges for health education. As many as 94% of communes in Poland are settlements with a population of up to 1,000 inhabitants [47], and very strongly centralized. In these ‘communal’ locations are focused all institutions and places which, either due to authority and competence, or their appointment, may and do undertake activities related with health education and health promotion: the commune office, primary and junior high schools, cultural centre, library, playing field (‘young eagle’ sports fields, or others with a lower standard). Inhabitants of outlying places considerably less often use ‘services’, offers and ‘non-compulsory’ actions (compulsory activities are, e.g those associated with settling matters in an office or participation in so-called “parents’ evenings”, participation in outdoor parties or active participation in bicycle tours starting from school). In turn, in the outlying areas, activities related with health apromotion are rare. Considering the success of the programes of health prophylaxis and prevention in rural communities, their small size has both positive and negative aspects. People are united by strong relations, it is easier to obtain assistance from neighbours in a health crisis, and the sense of union is much stronger.

On the other hand, however, the social networks in the rural areas are less extensive, while an extensive netork of acquaintances, even if only superficial, usually presents various possibilities, brings about proposals for other activities and spending leisure time, participation in various types of events, undertakings, acquiring new ideas, knowledge, and information. The basic differences in the functioning of rural and urban children and adolescents concern the access to various places, public spaces, social contacts, experiences, and also contact with young adults from whom ideas may be taken of another, more healthy life and activity.

The improving access to the Internet does not change the situation much. In the surroundings of rural schoolchildren there are no people who could and would like to show them something interesting on websites, expand their scope of interest in health and methods of its enhancement, and critically evaluate various sources of health information. Health education in rural schools should also consider some kind of environmental segmentation. Rural schoolchildren have different parents: local elite (teachers, employees of commune office, commune cultural centre, physicanc, etc.), children of rich farmers, children of ‘ordinary’ inhabitants, and children from blocks of flats in previous State farms. These groups may have different plans for the future, a different system of values and the position of health in this system, a different level of ‘neglect’ in the context of health culture, and a different ‘business’ in returing to the native village after completing education. All these factors affect both the concept and contents and – which is extremely important – the degree of attractiveness of health education carried out in a rural school. An investment in health awareness of rural schoolchildren is often an invesment in future adult inhabitants of this village.

The mean state of health education in rural schools in Poland is exacerbated by the reorganization of the network of educational facilities, especially elementary schools, justified by the rationalization of costs. This leads to the closing down of some small rural schools which are often culture-creating centres in the villages, and is therefore important for the safety and health of the youngest schoolchildren, and for health culture in small local communities [83]. This situation cannot be balanced even by the best indices of ‘nursing schools’ in Polish rural areas. In the studies of the quality of rural nursery school education, where health education is of key importance, its very low quality is indicated [85]. The closing down of a rural school will irretrievably destroy the social capital which has been worked out and has existed for years – also in the area of inititatives and health promoting attitudes.

The cooperation between rural school and the local environment becomes especially important. Apart from imparting knowledge, the school promotes a positive style of life by the preference of specified values, behaviours, and health promoting attitudes. It exerts a much stronger effect on the school surroundings within the sphere of health culture than in the urban environment. Here, the settings approach to health promotion is of a special character [86].

**SUMMARY**

According to the European Union formulating, three health priorities for the years 2008–2013 (improvement of health safety of citizens, health promotion, exchange of knowledge and proven solutions) the improvement of the state of health of children and adolescents, promotion of a healthy life style and prophylactic behaviours should occupy the prime position [87, 88].

The rural school has always had other tasks than an urban school: it cooperated with the local environment, organized additional classes and events, which in urban areas are offered by other facilities. A change in the concept and quality of health education should take into consideration the elevation of the role of a rural school to the rank of a centre of development of the local community and life-long learning. It would be a meeting place for children, adolescents, seniors, entitre families, a place for health education, both formal and informal, access to various sources of health information, entertainment enhancing health, and exchange of experiences from good health promoting practices. Irrespective of the features of individual rural schools and wealth of the local self-governments functioning in each rural environment, there is a potential for performance by schools of a programme of high level health education [65].

Poverty is also determined by the lack of satisfaction of health demands and lack of possibilities for solving problems related with it. Regional poverty is also the consequence of a limited access, not only to health care, but also to good sources of information handled within the health education programme [89]. Levelling-out inequalities in access to health observed in Polish rural areas must consider a systematic school health education based on good practices and local diagnosis. Unfortunately, at present, the undertaking of adequate actions still depends on the good will of public administration institutions responsible for the health of schoolchildren. Maintenance of the to-date solutions is more beneficial for them, because it does not require the development of new procedures and organizational schemes, such as the development of databases containing evidence of the effectiveness of various educational interventions in the rural school and local environment [4]. In Poland, the equalization of opportunities in access to prophylactic healt care for all schoolchildren requires urgent systemic solutions and coopertaion between the sectors of health and education.