Polish Forum for Prevention Guidelines on Smoking: update 2017

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NEW IN 2017: UPDATE OF POLISH FORUM FOR PREVENTION GUIDELINES ON SMOKING

1. New data on epidemiology of smoking in the Polish population
2. New system of cardiovascular (CV) risk assessment for the population of Poland
3. New data on efficacy of pharmacological treatment
4. New data and guidelines on electronic cigarettes

1. HARMFULNESS

Smoking is one of the key factors responsible for development of CV, pulmonary, and digestive system diseases as well as a number of cancers. Smoking is responsible for 50% of all avoidable deaths in smokers, half of these due to CV disease, and lifetime smokers have a 50% probability of dying due to smoking. The smoking-related risk is dose dependent: smoking even a few cigarettes daily is related to increased CV risk by 50%. A lifetime smoker on average will lose 10 years of life [1, 2].

2. PREVALENCE

About 8 million Poles (aged ≥ 15 years) smoke every day (24%). The prevalence in men is 31% and in women 18% [3]. Although the smoking rate has decreased substantially since the early eighties it is still higher compared to Western European countries. The Polish average smoker smokes more cigarettes daily compared to the mean in the European Union (16 vs. 14). Smoking among children and adolescents remains a major problem.

3. PASSIVE SMOKING

The health consequences of passive smoking are qualitatively similar to the effects of active smoking. In Poland, as many as 39% of adults are exposed to tobacco smoke at home.
(22% among non-smokers) and 11% at work, including 8% of non-smoking women and 13% of non-smoking men [3]. About 25% of Poles are exposed to second-hand smoke at bus or tram stops. It is estimated that almost 3 million children in Poland are passive smokers. It is also estimated that about 20% of pregnant women are exposed to second-hand smoke at home. Therefore, it is necessary to increase the protection of non-smokers from the harmful effects of tobacco smoke.

4. SMOKING AND CARDIOVASCULAR DISEASES

Smoking tobacco:
- carries a particularly high risk for patients with other risk factors, such as: hypertension, dyslipidaemia, diabetes, obesity, sedentary lifestyle, or positive family history of premature CV disease;
- adversely affects blood vessels, damaging vascular endothelium and impacting vascular homeostasis;
- increases inflammation, activates platelets and induces platelet aggregation, increases the expression of tissue factor, and impairs fibrinolysis; however. Cardiovascular risk decreases by half during the first year after smoking cessation. Subsequently it decreases gradually and after 15–20 years gets close to the level of never smokers.

5. EXPOSURE ASSESSMENT, THE DEGREE OF DEPENDENCE, AND MOTIVATION TO QUIT SMOKING

The assessment of exposure to tobacco smoke is made on the basis of an interview (small cost, subjective nature), which can be carried out using a questionnaire, and measurement of biomarkers (higher cost, objective measurement). Among others carbon monoxide in exhaled air, carboxyhaemoglobin in the blood, cotinine, nicotine, or thiocyanate in selected body fluids can be measured.

In assessing the degree of tobacco dependence the Fagerström test is useful. It helps to differentiate smokers in whom physical dependence is less important, requiring mainly behavioural support, from smokers with primarily severe biologically dependence. The latter patients need intensive pharmacotherapy for effective smoking cessation. Depending on the number of points scored the addiction may be classified as: low (0–2 points), low to moderate (3–4 points), moderate (5–6 points), or high (≥ 7 points).

Motivation is the most important factor determining the success of any smoking cessation attempt. Those without strong motivation to quit smoking frequently return to it. Assessment of the degree of determination of the patient to make the effort required to process difficult behavioural changes (especially in the case of a behavioural addiction), and tuning of the organism to function in the absence of nicotine (in the case of a significant component of physical addiction) is essential. Although CV risk does not influence the treatment of smoking dependence it can be used to further motivate the patient [4–6]. In the Polish population the Pol-SCORE 2015 system should be used (also for the heart age estimation) [7, 8].

6. GOAL OF THERAPY

The aim of the treatment is complete smoking cessation. The success of therapy is defined as non-smoking for at least six months. However, many people who have managed to achieve this goal eventually return to smoking.

7. GENERAL STRATEGY OF TOBACCO DEPENDENCE TREATMENT

Each patient must be made aware that addiction to tobacco is a disease that can and should be treated. In routine practice the “Five As” counselling strategy should be followed [1, 4–6]:
- Ask — systematically identify all tobacco users at every opportunity;
- Advise — strongly urge all tobacco users to quit;
- Assess — determine the degree of addiction and readiness to quit;
- Assist — agree on a smoking cessation strategy, including setting a quit date. Aid the patient in quitting (provide counselling-style support and medication);
- Arrange — ensure follow-up contact.

8. NON-PHARMACOLOGICAL TREATMENT

Medical intervention may be limited to brief counselling when directed, mainly to those smoking patients who do not yet take into account smoking cessation. Although the six-month effectiveness of short medical advice is estimated to be 2–3%, if every doctor in Poland gave this advice to all his/her smoking patients about 100,000 persons would stop smoking in Poland yearly [4, 6].

Every smoking patient should be advised to stop smoking during each visit in the doctor’s office. Medical risks related to smoking, as well as medical and personal benefits of breaking the addiction, should always be underlined. Patients should be informed about much more effective smoking cessation attempts if they are supported by pharmacological or behavioural therapy. The physician should remember: the more intense intervention, the greater the chance of smoking cessation. Interventions involving periodic telephone contact, providing practical guidelines for behaviour in the period of cessation, and providing social support are especially effective.

9. PHARMACOLOGICAL TREATMENT

Pharmacotherapy tobacco dependence should be seen in the same way as the pharmacological treatment of other risk factors. Available data indicate that drug treatment of tobacco dependence in Poland is used too rarely. Treatment of tobacco dependence is one of the most cost-effective methods in modern medicine, so it seems reasonable to introduce a partial reimbursement for drugs used for the treatment of tobacco dependence [4–6].
Pharmacotherapy should be offered to anyone planning to stop smoking, especially those with severe dependence or complications of smoking (e.g. coronary artery disease, chronic obstructive pulmonary disease) [1, 4–6].

Pharmacological treatment of tobacco dependence syndrome may consist of a nicotine replacement therapy (NRT), bupropion, cytisine, or varenicline [1, 4–6, 9].

Nicotine replacement therapy may take the form of patches, gums, lozenges, sublingual tablets, inhalers, etc. All available forms of NRT are effective and relatively safe. Combined NRT (patches + NRT in a form that provides a rapid increase in the level of blood nicotine, e.g. gums, inhalers) is more effective than NRT in monotherapy, especially in patients with severe addiction or in those who failed to stop smoking. NRT is available in Poland without a prescription. Other drugs registered in Poland include: bupropion, cytisine, and varenicline. Of these, cytisine is available without a prescription. Cytisine may be a useful alternative to more expensive drugs. The most effective method is a combination of pharmacological treatment with behavioural intervention.

10. ELECTRONIC CIGARETTES

Currently, about 3% of adults use electronic cigarettes in Poland [3]. Although they are less harmful than traditional tobacco products the public should not be encouraged to use them because there is no evidence that they are more effective than traditional methods of tobacco dependence treatment and due to the risk of initiation of smoking (especially in adolescents and young adults). People who smoke traditional cigarettes and intend to use electronic cigarettes as a means of tobacco dependence treatment should be informed of the relatively small evidence of their effectiveness and lack of certainty as to their full safety. At the same time, patients should be encouraged to use methods that are proven to be effective [1, 10, 11].

Conflict of interest: none declared

References

3. TNS Polska dla Górnego Inspektora Sanitarnego. Raport z ogólnopolskiego badania ankietowego na temat postaw wobec palenia tytoniu, Warszawa.


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