The Gap Between the Oral Health of those with Serious Mental Health Disorders and the General Population: A Major Public Health Problem

Denis Fredric1,2,*, Maitre Yoann1,2, Delpierre A1, Mahalli R1, Micheneau P1, Amador G2 and Rusch E1,3
1Department of Odontology, Tours University Hospital, Tours, France
2Department of Odontology, Université de Nantes, Nantes, France
3Department of Odontology, Montpellier University Hospital, Montpellier, France

Abstract
The mapping of databases for Caisse nationale d’assurance maladie des travailleurs (CNAM-TS) in France is imprecise, since many people with psychiatric disorders have difficulty accessing the health system and are not visible on the databases. However, it is estimated that people suffering from serious psychiatric illnesses, such as schizophrenia, have a premature mortality rate on average, one that is four times higher than for others, and who die between 13 years (for women) and 16 years (for men) on average earlier than the rest of the population. In the field of oral health, we observed inequality in the treatment between these individuals and France’s general population, as well as worldwide. In the interests of efficiency and equity, dental care systems should focus on the promotion and maintenance of oral health, as a strong case can be made for the risk factors between oral, physical, and mental health.

Keywords: Oral health • Schizophrenia • Mental disorders • Public health

Description
A public health problem with blurred contours

It is reasonable to estimate that each year, one French person in five is affected by a mental disorder, and that around 3 million people around the world suffer from a serious mental illness [1]. Thus, in 2016, the spending on mental illness amounted to nearly 24 billion euros (14% of health insurance spending), which places mental health care in first place for health spending after cancer (17 billion euros), and cardiovascular disease with 16 billion euros [1]. However, there are few advocates in France who focus on psychiatric diseases. Indeed, while the databases of the National Health Insurance Fund for Workers (CNAM-TS) provide valuable information regarding the evaluation of health costs through the reimbursement of medical procedures and the consumption of drugs, mental health care is very broad. It can range from temporary sleep disorders to psychotic disorders and/or the inappropriate use of toxic substances, which can induce mental disorders. As such, it can be assumed that mapping for the CNAM-TS is vague, as many people with psychiatric disorders have difficulty accessing the health system and are not visible on the databases; moreover, the diagnosis of mental disorder is not always made to formally identify them, as psychiatric illnesses are often perceived as shameful by patients and their loved ones, and can be stigmatized by some health professionals. In addition, dental care can be expensive and poorly reimbursed, which explains the reluctance of some patients to seek treatment [2,3].

Mental suffering is often associated with behavior with a negative impact on physical health, which includes poor diet (low in fiber, high in sugar), lack of physical activity, lack of sleep, smoking, alcohol, or the consumption of toxic substances, etc. This presents higher risk factors for many chronic diseases, such as cardiovascular disease, metabolic syndrome, autoimmune and neurological diseases, certain types of cancer, and oral disorders [4,5]. Those with serious psychiatric illnesses, such as schizophrenia, have a premature mortality rate four times higher than average, and who die between 13 years (for women) and 16 years (for men) on average earlier than the general population [4,5].

Mental health and oral health
Over the past 15 years, population studies have shown a strong link between oral health status and major chronic diseases. These factors are common to a number of other chronic diseases, such as heart disease, cancer, and stroke [6]. Therefore, oral health and general health have similar causes and risk behaviors in common. Poor oral health and poor general health often occur together, impacting each other. For example, nutritional deficiency and a weakened immune system are associated with oral disease, as well as general illness [7]. It is also well-documented in the literature that systemic diseases such as stress [8], diabetes, Human Immunodeficiency Virus (HIV) infections and leukemia increase risk for severe periodontal disease [9]. It is also known that smoking and alcohol consumption are associated with periodontal disease and complete tooth loss [10], and oral cancer. A large case-control study showed [11] that the risk of oral and pharyngeal cancer was more than 35 times higher among those who consumed two or more packs of cigarettes per day and who had more than four alcoholic beverages per day. In general, negative symptoms of mental illness, age, duration of mental illness, and low socioeconomic and cultural status are typical risk factors for dental and periodontal disorders [12]. Cavities with periodontal or infectious diseases of oral origin, and metabolic disorders (diabetes, obesity, xerostomia) induced by antipsychotic treatment, poor diet, and lifestyle (high sugar, use of psychoactive substances, and smoking) contribute to poor physical health [13,14] (Figure 1). Poor oral health can also affect quality of life (QoL) due to the social impact of aesthetically deteriorating smiles and their connection to self-confidence [14].

*Corresponding Author: Frederic Denis, Department of Odontology, Tours University Hospital, Avenue de la République, 37170 Chambray-lès-Tours, France, Tel.:+33677156986; E-mail address: frederic.denis@chu-tours.fr

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In this way, for efficiency and equity, dental care systems must focus on promoting and maintaining oral health, as this makes a strong case for common risk factors regarding oral, physical, and mental health.

**Disclosure**

The authors report no conflicts of interest.

**References**


