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Portal to care: general practitioners' decision-making on child and youth mental health problems and the influence of their (lived) experience

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Chapter 7 – Appendices

English summary

Mental health problems among children and youths are common and have numerous negative consequences for young people and their social network. Therewith, these problems pose a social issue. GPs play an important role in early detection and management of these problems. Insight into their clinical decision-making and, as a result, way of working would be helpful to develop methods for providing children and youths with the help they need. Previous literature suggest many doctors(-to-be), of whom some are or will become GPs, have (lived) experience related to mental health problems themselves. Previous studies also suggest having (lived) experience influences GPs' clinical decision-making, and consequently their way of working. It would have clinical benefits for GPs and patients to explore this process.

This thesis is constructed of four different articles, each contributing to answering the main question: **‘How do GPs decide on child and youth mental health problems and what is the influence of their (lived) experience regarding these problems on this decision?’**

Article 1: How do GPs make decisions regarding mental health problems in children and youths?

For answering this subquestion, a *mixed methods* design was used: interviews among 14 and an online survey among 15 GPs. GPs were asked about their clinical decision-making process on children and youths with mental health problems using three vignettes describing children and youths with mental health problems representative of clinical practice. The findings suggest GPs differ with regards to their decision-making regarding child and youth mental health problems, and that their decision-making is influenced by factors related to 1) the GP, for example if the GP approaches the problem somatically or psychosocially, if the GP considers themselves competent enough to solve the problem with regards to their interest in and knowledge about youth mental health care, 2) the child and its social context, for example if the child or youth has psychiatric (co)morbidity, if the problem is likely to solve itself and if the problem could be assessed as being complex and 3) the GPs' collaboration with other youth care providers, for example if GPs have existing collaboration agreements with these youth care providers and how they view their collaboration.

Article 2: Can GPs' decisions on child and youth mental health problems be supported by means of a decision-support method?

For answering this subquestion, a literature search was conducted to retrieve studies that involved clinical decision support methods for GPs' clinical decision-making related to mental health problems among children and youths. This systematic review yielded 25 studies on 18 clinical decision-support methods, divided into computer-based methods (such as *MyGRaCE*), telecommunication methods (such as *CAP PC*) and methods with a combination of components related to computer-based methods and telecommunication

methods (such as *Collaborative care for depression intervention*). The article provides insight into (possible) beneficial clinical implications of clinical decision-support methods. These methods could give more insight into possible mental health problems, they could provide structured information which can be used by the GP and/or parents during their next consultation with the child or youth, and they could also decrease time and costs spent by the primary care practice and the GP. There are also less beneficial clinical implications, such as an inability for some computer-based methods to be used in emergency situations, when time is short, problems for children and youths when using computer-based methods because of their mental status, and impediment to discuss certain topics freely because the decision-support method gives too much direction to the consultation. The article describes certain considerations for GPs when choosing a decision-support method, which may indirectly have a positive impact on the implementation of such methods into general practice. For example, the GP can take into account their way of working, user flexibility of the method for the GP, the child/youth and their parent(s) with regards to understandability and ease of use, if the GP already uses a clinical decision-support method, if the GP already has collaboration agreements with youth care providers, as well as their own attitude and knowledge regarding mental health problems among children and youths.

Article 3: Do doctors-to-be, among whom future GPs, have (lived) experience regarding mental health problems? Study focused on preclinical medical students.

For answering this subquestion, self-report questionnaires were sent to 1311 preclinical medical students of Leiden University Medical Center to measure burnout-, depression- and anxiety-related symptoms. The article concludes that symptoms related to mental health problems are common among preclinical medical students. Burnout-related symptoms were found in 46%, depression-related symptoms in 27% and anxiety-related symptoms in 29% of preclinical medical students. Burnout-related symptoms among preclinical medical students were correlated with a sleep duration of less than 6 hours per night, low happiness and a high need for recovery after a day of study. Depression- and anxiety-related symptoms were mainly correlated with low optimism, low happiness, and a high need for recovery after a day of study. These findings suggest preclinical medical students are at risk to develop mental health problems, which can inspire universities to come up with preventive interventions.

Article 4: Do doctors-to-be, among whom future GPs, have (lived) experience regarding mental health problems? Study focused on medical interns.

For answering this subquestion, self-report questionnaires were sent to 709 medical interns of the same institution mentioned in article 3 to measure burnout-related symptoms. Burnout-related symptoms were found in 30% of medical interns. Burnout-related symptoms among medical interns were related to low dedication with regards to work, a high work pace and quantity, a high need for recovery after a day of work and low optimism. These correlates could be used to prevent mental health problems among medical

interns by making adjustments to the medical curriculum.

The articles of this thesis suggest GPs' decision-making on mental health problems in children and youths is multifactorial and consists of objective and subjective components. Furthermore, decision-making seems to differ between GPs, which may be an explanation why there are a variety of clinical decision support methods. Some clinical decision support methods have been implemented in the context of research into general practice, like MyGRaCE, *CHICA*, *Mobilitytype*, *Youth StepCare*, *consultation-liason method* (between GPs and psychiatrists), *telepsychiatry consultation practice* and the *MC3 Program*. A clinical implication is GPs can choose a decision-support method which match their personal style of clinical decision-making. However, the validity, trustworthiness and usability of available methods need to be further explored. A clinical implication with regards to medical students' mental health comprises universities provide accessible proactive mental support to preclinical medical interns and medical interns, because many do not seek help themselves. Furthermore, universities could stimulate a stigma-reducing educational environment, for example in collaboration with the department of (Child- and Adolescent) Psychiatry. Therefore, medical students could be equipped with effective strategies to cope with mental health problems. Also, they might be made aware of their vulnerability, so that they may know their subjectivity and use their personal experiences in practice.

The results of this thesis invite more (longitudinal) research on the diagnostic precision, predictive value and cost-efficiency of clinical decision-support methods. Furthermore, more research is needed on the prevalence of mental health problems among graduated doctors, like GPs, and possible effects of these problems on their way of working, their decision-making and their contacts with patients. Strengths of this thesis include exploration of a relatively unknown research area, namely GPs' clinical decision-making regarding mental health problems among children and youths. Therefore, this thesis used multiple research methodologies and it used a practical scope. This thesis also contains several limitations, such as inclusion of a small GP population, as well as self-selection bias in the studies on preclinical medical students, medical interns and GPs. Finally, interpretation of the results of this thesis was impeded because the research has been conducted in one university, because cause and effect of results could not always be disentangled and because of low statistical *power*.

Because having mental health problems may influence GPs' clinical decision-making, one could explore how (future) doctors work, study and relax. Therefore, it is recommended to strive for educating balanced doctors: persons who, in collaboration with their colleagues, are – through reflection – aware of their needs and wants between professional boundaries.