AVAILABILITY OF PSYCHOLOGICAL SUPPORT FOR MEDICAL STUDENTS IN POLAND

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Abstract

Objectives: Medical students suffer from a considerable level of stress, which can result in the deterioration of their mental health, including depression or suicidal ideation. They are afraid to seek help due to stigmatization and environmental ostracism. The goal of the study is to analyze the psychological support and stress management programs for students supported by medical schools in Poland. Material and Methods: The authors sent out e-mails with 9 questions regarding the issue being analyzed to all 19 medical schools in Poland. They obtained answers from 15 such schools, which corresponds to a response rate of 79%. The study was conducted in 2018–2019, before the SARS-CoV-2 pandemic. Results: Due to the lack of central regulations, support is provided by medical schools individually. Those solutions focus on short-term, temporary therapy. If a longer therapy is needed, students are redirected to external health providers. Moreover, information about the support is not transferred by student-friendly communication channels. Conclusions: Support should be flexible, and it should quickly adapt to the emerging trends and consider students’ feedback. A future model of psychological support could be a center organized as a transfer point between a university problem-solving facility and external health providers, concentrating on short-term activity. Quick support would eliminate potential complications and more serious mental problems. Int J Occup Med Environ Health. 2021;34(1)

Key words:
mental health, support, psychological distress, medical students, medical education, preventive programs

INTRODUCTION

Medical staff experience a heavy workload and suffer from a considerable level of stress, which can result in the deterioration of their mental health and burnout [1–4]. The same applies to medical students, for whom the beginning of their studies is a particularly demanding challenge. The majority of them have to adapt to new living conditions, contexts and social spaces in their surroundings, usually without familiar support (e.g., from friends and family) [5].

In 2016, a systematic review and a meta-analysis of 195 studies involving 129 123 medical students in 47 countries demonstrated that 27% of them screened positive for depression, and 11% reported suicidal ideation, during their medical education [6]. Only 16% of the students who screened positive for depression reportedly sought treatment. The possible causes of depressive and suicidal symptomatology among medical students are likely to include stress and anxiety related to the competitiveness of a medical school [7]. Moreover, the medical
Medical training in Poland lasts 6 years. Graduates must complete a 13-month internship, providing medical assistance under supervision, mainly in a hospital setting. After passing the National Examination for Medical Doctors, they are given a license to practice as a general practitioner. The test results determine whether and which of the 77 medical specializations the young doctor will take during his/her further career. Postgraduate training lasts from 4 years (e.g., epidemiology, public health, family medicine) to 7–10 years (oncological gynaecology, intensive care, clinical transplantology).

Based on the data received by e-mail from the Department of Science and Higher Education of the Ministry of Health (January 2019), the total number of medical students in Poland is 29,783. Studies are free of charge. The Ministry of Health estimated that the average cost of a doctor’s education (in the academic year 2017/2018) was about EUR 4500 per semester. Additionally, medical schools offer paid study programs in Polish (N = 3923, 13%) at a cost of EUR 3600 and provide for international students in English (N = 6238, 21%) at a cost of EUR 5100, while the average income in Poland is around EUR 830 monthly after tax [21].

The Polish Ministry of Health and the Polish Chamber of Physicians do not collect data about Polish citizens currently studying medicine abroad and physicians who work abroad. Nor do they verify the mental health condition of medical students and physicians.

Taking into consideration the data presented above, such as the low number of physicians and the cost of medical education, it must be said that medical students are an extremely valuable source for the Polish society.

Objective of the study
The objective of the presented paper was to analyze the psychological support and stress management programs for medical students currently supported by medical schools in Poland.
MATERIAL AND METHODS
Initially, the authors made enquiries to the Ministry of Health, which is responsible for the process of educating Polish doctors. They asked whether data about Polish medical students’ mental health are collected, and if there are any guidelines for the psychological support provided by medical schools. They discovered that the Ministry does not collect such data and there are no regulations in place. Therefore, all initiatives concerning the possible support are set out by each university individually. The authors then sent out e-mails with the following 9 questions regarding the issue being analyzed to all 19 medical schools in Poland:
1. Does the university provide psychological help for students and what form does such help take?
2. How can students make an appointment (by phone/via an online register form)?
3. Is the number of consultations/appointments limited?
4. Is the institutional unit or an external entity responsible for organizing the assistance, and what is the source of financing?
5. Is there separate (psychological) support for international/Erasmus students?
6. Where can students find information about potential help (an official website of the university/an internal network/social media)?
7. Are online consultations available (e.g., via Skype)?
8. Is it possible for the university’s employees to receive help?
9. How many people take advantage of such support and what are the main reasons for consultations?

The first e-mails were sent directly to the deans of medical faculties, attached to the heads of dean’s offices (November 27, 2018). Address information available on the official websites of medical schools was gathered and used. In parallel, the authors analyzed the official information about the psychological support for students that the universities presented on their websites. Then, after a month, they sent another e-mail and a traditional letter to the deans of those schools that had not yet responded. The correspondence was forwarded additionally to university press spokesmen, the departments of psychology and/or university disability support services if such information was presented on the official website. Finally, the authors received responses from 15 universities (a response rate of 79%).

RESULTS
Due to the specific character of the obtained results, the authors decided to present them in the form of a table (Table 1).

DISCUSSION
The general course of the study and transfer of information
It was quite surprising to learn that the Ministry of Health collected no information about the mental condition of medical students. Due to the lack of systemic, administrative and central regulations, the problem of psychological support was being solved by universities individually. It is worth noting that some of these psychological support programs were created over the last 2 years. The creators of the most recent ones gave the authors the most complete and transparent feedback. Unfortunately, there were also public universities that did not respond, even though the authors repeated their e-mail requests and sent traditional letters. Additionally, information about the support available on the official websites of universities was analyzed.

Applied solutions
In general, the provided support is mostly temporary, consultative and interventionist. Later, if a longer therapy is needed, students are redirected to an external health provider. The current solution seems to be proper and justified in the authors’ opinion. Due to the lack of central regulations, each university organizes the support indi-
### Table 1. Psychological support for medical students in Poland: medical schools' responses and official website information gathered in the study on the psychological support and stress management programs for students supported by medical schools in Poland (November 2018)

<table>
<thead>
<tr>
<th>Medical school</th>
<th>Students* [n]</th>
<th>Ranking**</th>
<th>Unit responsible for the support</th>
<th>Forms of support and duration</th>
<th>Source of funding</th>
<th>Information availability</th>
<th>Authors' observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical University of Silesia</td>
<td>1036</td>
<td>8</td>
<td>- Faculty of Medicine in Katowice, Department of Psychiatry and Psychotherapy</td>
<td>unofficial/informal consultations for students are provided by the psychologists and psychiatrists employed at the university during their didactic consultation hours</td>
<td>no system funding</td>
<td>no information on the official website; information available at the dean's office</td>
<td>unofficial/informal consultations for students are provided by the psychologists and psychiatrists employed at the university during their didactic consultation hours</td>
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<td></td>
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<td></td>
<td>- Faculty of Medicine in Zabrze</td>
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<td>o Department of Psychology</td>
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<td></td>
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<td></td>
<td>o Clinical Psychiatry Department and Unit</td>
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<tr>
<td>Medical University of Warsaw</td>
<td>892</td>
<td>3</td>
<td>University counseling services have existed since 2018 – supervised by the Department of Psychology and Medical Communication</td>
<td>short-term/brief therapy in the form of psychological and sexological consultations, coaching</td>
<td>university's funds and external resources (University’s Development Foundation)</td>
<td>mailing, social media, information disseminated during classes, website (<a href="http://www">www</a>. fundament-wojumu.pl/raport-z-dzialal-nosci-universyteckiej-poradni-psychologicznej-warszawskiego-universytetu-medycznego)</td>
<td>- a transparent organization</td>
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<td></td>
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<td></td>
<td>- the university website has a clear and informative structure</td>
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<td>- a good contact with the project coordinator</td>
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<td>- a precise activity report with information on organization, costs, evaluation, etc.</td>
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<td>- widely advertised, student-friendly communication tools</td>
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<td></td>
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<td></td>
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<td>- a long-term service package for international students without Polish NHS insurance</td>
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<td></td>
<td></td>
<td></td>
<td>- remote therapy continuation via Skype</td>
</tr>
<tr>
<td>Institution</td>
<td>Link</td>
<td>Year</td>
<td>Department/Center</td>
<td>Services Offered</td>
<td>Cooperation Details</td>
<td>Website</td>
<td>Special Remarks</td>
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<tr>
<td>Medical University of Łódź (<a href="http://www.studymed.umed.pl">www.studymed.umed.pl</a>)</td>
<td>849</td>
<td>5</td>
<td>Office for Student Affairs</td>
<td>short intervention; max 5 consultations/semester</td>
<td>cooperation between: the Medical University of Łódź, the Regional Center for Social Policies, and the Voivodship NHS Authorities</td>
<td></td>
<td>mailing, internal network</td>
</tr>
<tr>
<td>Poznań University of Medical Sciences (<a href="http://www.pums.ump.edu.pl">www.pums.ump.edu.pl</a>)</td>
<td>618</td>
<td>6</td>
<td>Department of Clinical Psychology and University Mental Psychiatric Clinic</td>
<td>psychological diagnosis, counseling; psychotherapy (cognitive-behavioral therapy, psychoanalytic therapy); group therapy; psychiatric care, home visits</td>
<td></td>
<td>website (<a href="http://www.pums.ump.edu.pl/about/student-information/counseling-and-psychological-services-caps/">www.pums.ump.edu.pl/about/student-information/counseling-and-psychological-services-caps/</a>)</td>
<td>– in urgent cases, the student can contact the manager personally via phone; international students have a separate program and can contact therapists directly</td>
</tr>
<tr>
<td>Medical University of Lublin (<a href="http://www.umlub.pl/en">www.umlub.pl/en</a>)</td>
<td>589</td>
<td>6</td>
<td>Disability Support Service</td>
<td>psychological counseling is available for international and disabled students only</td>
<td></td>
<td>university website (<a href="http://www.umlub.pl/en/english-division/student-support/">www.umlub.pl/en/english-division/student-support/</a>)</td>
<td>– specialized support for disabled students</td>
</tr>
<tr>
<td>Jagiellonian University Medical College (<a href="http://www.medschool.uj.edu.pl">www.medschool.uj.edu.pl</a>)</td>
<td>589</td>
<td>1</td>
<td>Student Support and Adaptation Center operating since March 2019 (<a href="http://www.uj.edu.pl/sowa">www.uj.edu.pl/sowa</a>)</td>
<td>call on duty (everyday); crisis intervention; additional thematic groups</td>
<td></td>
<td>university official and internal website, social media</td>
<td>– the center is intended for all students and doctoral students</td>
</tr>
<tr>
<td>Wroclaw Medical University (<a href="http://www.en.umed.wroc.pl">www.en.umed.wroc.pl</a>)</td>
<td>538</td>
<td>3</td>
<td>answer not provided</td>
<td>answer not provided</td>
<td>answer not provided</td>
<td>answer not provided website (<a href="http://www.umed.wroc.pl/content/pomoc-psychologiczna">www.umed.wroc.pl/content/pomoc-psychologiczna</a>)</td>
<td>– the data available on the university's website (updated in 2016) indicate that psychological assistance was provided at the Department of Consulting Psychiatry</td>
</tr>
<tr>
<td>Medical school</td>
<td>Students* [n]</td>
<td>Ranking**</td>
<td>Unit responsible for the support</td>
<td>Forms of support and duration</td>
<td>Source of funding</td>
<td>Information availability</td>
<td>Authors’ observations</td>
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<tr>
<td>Medical University of Gdańsk (<a href="http://www.mug.edu.pl">www.mug.edu.pl</a>)</td>
<td>534</td>
<td>1</td>
<td>Department of Clinical Psychology</td>
<td>limited consultations; additionally for students in crisis, in urgent need of medical consultation priority registration at University Psychiatry Clinic</td>
<td>university</td>
<td>official and internal website (<a href="https://niepelnosprawni.gumed.edu.pl/41609.html">https://niepelnosprawni.gumed.edu.pl/41609.html</a>)</td>
<td>- 15-h workshop on “Training skills of coping with stress” during the first year of medical studies</td>
</tr>
<tr>
<td>Medical University of Białystok (<a href="http://www.umb.edu.pl/en">www.umb.edu.pl/en</a>)</td>
<td>392</td>
<td>10</td>
<td>a university teacher who provides the service under of an additional contract</td>
<td>formal, but only for international students</td>
<td>the fund is established from the tuition fees of international students</td>
<td>website (<a href="http://www.umb.edu.pl/en/s,9069/Student_Counseling">www.umb.edu.pl/en/s,9069/Student_Counseling</a>)</td>
<td>- for Polish students, such assistance was available until 2017; reportedly, “due to the lack of interest, this service was suspended. If necessary, Polish students can make an appointment with a psychologist dedicated to helping foreign students” (source: Dean’s Office)</td>
</tr>
<tr>
<td>Pomeranian Medical University in Szczecin (<a href="http://www.pum.edu.pl/english/programs-in-english-language">www.pum.edu.pl/english/programs-in-english-language</a>)</td>
<td>382</td>
<td>9</td>
<td>Public Health Care Institution for Higher Education and University Psychiatry Clinic</td>
<td>external NHS provider</td>
<td>answer not provided</td>
<td>website (<a href="http://www.spzozsw.pl/nasil-lekarze/#table-1-1-ul-boh-warszawy-51">www.spzozsw.pl/nasil-lekarze/#table-1-1-ul-boh-warszawy-51</a>)</td>
<td>- there is no specific information on the official website of these institutions</td>
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<tr>
<td>Institution</td>
<td>Code</td>
<td>Details</td>
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<td>Nicolaus Copernicus University, Collegium Medicum in Bydgoszcz (<a href="http://www.cm.umk.pl/en">www.cm.umk.pl/en</a>)</td>
<td>341</td>
<td>answer not provided</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>University of Warmia-Mazury in Olsztyn, School of Medicine (<a href="http://www.wl.uwm.edu.pl/en">www.wl.uwm.edu.pl/en</a>)</td>
<td>230</td>
<td>Psychological Help Point “Empathy” (<a href="http://www.wns.uwm.edu.pl/empatia">www.wns.uwm.edu.pl/empatia</a>), University Disability Support Service (<a href="http://www.uwm.edu.pl/bon/content/pomoc-psychologa">www.uwm.edu.pl/bon/content/pomoc-psychologa</a>)</td>
<td></td>
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<tr>
<td>Andrzej Frycz Modrzewski Krakow University, Faculty of Medicine and Health Sciences (non-public)</td>
<td>200</td>
<td>answer not provided</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

- answer not provided
- university's website redirects students to the University Ambulatory for consultations (an NHS provider)
- a comprehensive approach takes into account the specific needs of students with disabilities
- high flexibility, responding to the current needs of students
- a good contact with the organizer
- using student-friendly communication tools
- a lack of formal, official information on the university's website
Jan Kochanowski University in Kielce, Faculty of Medicine (www.ujk.edu.pl/medicineschool) 180 – Crisis Intervention Point organized by the Department of Social Prevention (www.ujk.edu.pl/ucwir/p,82,punkt-intervencji-kryzysowej) crisis intervention answer not provided website (www.ujk.edu.pl/ucwir/p,82,punkt-intervencji-kryzysowej) – based on the official website, “the activity of the Point is based solely on volunteering” – www.ujk.edu.pl/ucwir/p,82,punkt-intervencji-kryzysowej – additionally, advice is provided on the prevention of HIV/AIDS and other sexually transmitted diseases – students can take advantage of free, anonymous HIV testing with guidance before and after the test – a multi-threaded action, a lot of people and commitment resources, lots of initiatives – 2 facultative courses: “Relaxation and breathing techniques in coping with stress” and “Stress reduction based on mindfulness and compassion training” – an information bulletin for students – “Wgląd” (“Insight”) University of Rzeszów, Faculty of Medicine (www.ur.edu.pl/en/departments/faculty-of-medicine) 155 – Department of Psychology at Faculty of Pedagogy “NO STRESS Clinic” Stress Research Laboratory at the Department of Biology – each teacher has 2 consultation hours per semester; additional meetings are arranged individually – open meetings once a month; mindfulness workshops weekly; open meetings once a month answer not provided website (www.ur.edu.pl/wydzialy/pedagogiczny/biezace-informacje-dla-studentow/32912,zapraszamy-serdecznie-do-poradni-psychologicznej-no-stress-studentow-ktorzy-oczekuja-porad-i-wsparcia.html) – a multi-threaded action, a lot of people and commitment resources, lots of initiatives – 2 facultative courses: “Relaxation and breathing techniques in coping with stress” and “Stress reduction based on mindfulness and compassion training” – an information bulletin for students – “Wgląd” (“Insight”)
<table>
<thead>
<tr>
<th>Institution</th>
<th>Support Provided</th>
<th>Website/Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher Technical School in Katowice, Department of Medical Sciences in Katowice (non-public)</td>
<td>answer not provided</td>
<td>website (<a href="http://www.wst.com.pl/oferta">www.wst.com.pl/oferta</a> Edukacyjna/kierunek Lekarski)</td>
</tr>
<tr>
<td>University of Zielona Góra, Faculty of Medicine and Health Science</td>
<td>consultation at an external unit; support is also available from the deputy dean during duty hours twice a week</td>
<td>meeting with the deputy dean website (<a href="http://www.wlnz.uz.zgora.pl/index.php?EN">www.wlnz.uz.zgora.pl/index.php?EN</a>)</td>
</tr>
<tr>
<td>Universitas Opoliensis, Collegium Medicum (<a href="http://uni.opole.pl/en">http://uni.opole.pl/en</a>)</td>
<td>support is not available</td>
<td></td>
</tr>
<tr>
<td>Lazarski University, Faculty of Medicine (non-public) (<a href="http://www.lazarski.pl/en/faculties-units/faculty-of-medicine">www.lazarski.pl/en/faculties-units/faculty-of-medicine</a>)</td>
<td>individual counseling and psychotherapy support is partly paid; the first 2 consultations are free; then, the costs are covered in half by the university and in half by the student</td>
<td>mailing</td>
</tr>
</tbody>
</table>

NHS – National Health Service.

* The number of medical students admitted in the academic year 2018/2019, from the largest to the smallest [22].

** Place in the ranking of medical universities in Poland in 2018 – consists of: prestige (evaluation by academic staff); graduates in the labor market (their economic fate); academic potential (parametric assessment, qualifications to award academic degrees, awarded academic degrees); scientific effectiveness (publications – SCOPUS, citation impact – SCOPUS, Field-Weighted Citation Impact [FWCI]); didactic potential (availability of highly qualified staff for students, accreditations); innovation (patents and protection rights); additional criteria (vocational examinations, quality accepted for studies) – results of secondary school final examinations [23].

"--" These universities were not included in the ranking.
The authors have observed a trend that universities are divided into those where support is provided by internal units (usually didactic departments related to psychology and mental health clinics) with specialized structures, and those that outsource their support programs. Universities occasionally propose group formulas, such as workshops, facultative courses and lectures about coping. They have also noted that psychological support is sometimes informal. A form of “on-call duty” during scientific and didactic consultations is offered. As they understand it, teachers provide support for students, thereby broadening their academic role by volunteering. It seems that this originates from bottom-up initiatives. It gives the impression that psychology teachers try to respond to students’ needs to seek help. However, the growing scale of psychological problems among medical students justifies the need for the institutionalization and development of such support. Creating system solutions would optimize and increase the effectiveness of such assistance. The authors were very pleased by the opinion expressed that their letter convinced some university authorities of how important the issue of psychological assistance is for medical students, and perhaps, as they hope, it has initiated discussions in that regard.

**Financing**

Support is usually financed from the university budget. Not many schools have any additional funding, e.g., international students’ tuition fees. As previously mentioned, in most cases, support is rather short-term and students are redirected to an external health provider. However, the authors are not sure whether students are prioritized in any way, e.g., given a faster entry under the National Health Service (NHS), after such redirection. The universities surveyed did not provide any information about this.

The Medical University of Warsaw presented the most comprehensive information (including a detailed report) on the financing model of the entire program. This report may be assumed to provide a valuable tip on how to prepare a financial model of psychological support for medical students. Lazarski University, which has recently offered a non-public medical course, provides a curious solution by co-financing external psychological consultations. Two meetings are complimentary and every follow-up is subsidized by 50%. The question is whether outsourcing psychological support is a cheaper and better approach. The universities surveyed did not provide information about costs, so it is difficult to analyze and estimate this aspect. It would be interesting, *inter alia*, to compare the costs to the effects (e.g., the average price of a consultation). It seems that outsourcing is worth analyzing and considering in the context of providing psychological support. Major needs would be resolved at relatively small expenditure. However, the authors do not feel or in a position to evaluate this matter from an economic point of view. This is due to the diverse structures and models of universities functioning in Poland. In addition, they would like to emphasize that outsourcing may not only be related to cost optimization, as an additional advantage could be the provision of professional help independent of the university.

**The problem of resistance and neutrality**

Students are afraid of stigmatization and environmental ostracism. Asking for help from a teacher with whom they may potentially have classes might be confusing. A teacher who is temporarily in a different role may not be sufficiently neutral for the student whose problems may apply to studies or a specific subject. This may cause the activation of defense mechanisms and eventually lead to resistance towards this kind of help. At the same time, it seems that asking for support from a person a student knows, likes and trusts would be more straightforward. In addition, the authors wonder whether the social requirement/stereotype existing in this part of Europe that physicians should be infallible and omnipo-
tent affects students’ willingness to seek help. These research and interpretation questions remain unanswered.

The main reasons for students to report to psychological consultations
The most frequent reasons for attending psychological consultations were:
– depression and anxiety symptoms,
– problems with adapting to studies,
– difficulties in interpersonal relationships,
– coping with stress,
– a loss of motivation to study,
– concentration difficulties,
– abuse of psychoactive substances,
– a family situation,
– “acting-out,”
– self-aggression,
– suicidal tendencies.

Do universities really know what students need and how to communicate with young people?
The authors have the impression that, from the perspective of a student in crisis, the help itself and information about the potential support are not easily available. In other words, the “interface” is not student-friendly because communication is not transmitted by channels used by modern students. Finding useful information takes time and the website infrastructure is unintuitive. Some information is presented in display cases which students do not tend to see or give attention to.
The authors think that support planning should be co-created with students as the beneficiaries of such help. Meanwhile, they have the impression that the current situation regarding communication and cooperation between universities and students is challenging. Moreover, there seems to be no doubt that keeping up with changes and trends that young people follow is becoming more and more difficult, as they regularly change and modify their communication channels. It is difficult to predict users’ migration between portals and their popularity is dependent on age groups (e.g., Facebook, Instagram, Snapchat, TikTok). Popular social networks might offer an innovative strategy for addressing stress among students and for developing new methods of psychological support [24].

CONCLUSIONS
Psychological support for medical students should be flexible, and it should quickly adapt to emerging trends and needs, and refer to students’ feedback, while taking into consideration their communication channels, the tools they use, and also their needs. A dynamic intervention center is a noteworthy solution for the future. A future model of that psychological support would be a kind of a “hub” between a university problem-solving facility and external health providers – a center organized as a transfer point, concentrating on the effective immediate or short-term activity. It would cooperate with the whole NHS-based support system in the region. Universities could sign appropriate agreements with external entities (outsourcing) and redirect students efficiently to a mental health specialist as a priority.

It seems that there is space for regulations here. After a review of the support programs applied at the leading medical universities in the world, the authors noticed many potential solutions which, once implemented, could enrich the available support package in Poland. What is more, they believe that the educational setting induced by the SARS-CoV-2 pandemic has accelerated the introduction and improvement of conventional solutions and e-solutions regarding the mental health of students in Poland. They are also convinced that the proper evaluation of these initiatives should be considered. Perhaps good solutions have already been developed and could inspire others. Quick support would eliminate possible complications and more serious mental problems, and it may also prevent major crises in future doctors.
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