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ABSTRACT

School Selectivity, Peers, and Mental Health^{*}

Although many students suffer from anxiety and depression, and students often identify school pressure and concerns about their futures as the main reasons for their worries, little is known about the consequences of a selective school environment on students' physical and mental health. In this paper, we draw on rich administrative data and the features of the high school assignment system in the largest Norwegian cities to consider the long-term consequences of enrollment in a more selective high school. Using a regression discontinuity analysis, we show that eligibility to enroll in a more selective high school increases the probability of enrollment in higher education and decreases the probability of diagnosis or treatment by a general medical practitioner for psychological symptoms and diseases. We further document that enrolling in a more selective high school has a greater positive impact when there are larger changes in the student–teacher ratio, teachers' age, and the proportion of female teachers. These findings suggest that changes in teacher characteristics are important for better understanding the effects of a more selective school environment.

JEL Classification: 121, 126, 112

Keywords: selective high schools, higher education, health, mental health,

peers

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1 Introduction

Depression and anxiety are among the leading causes of illness and disability among adolescents (WHO, 2019). For instance, roughly one in three high school students in the US report suffering from depression or anxiety symptoms in a given year (HHS, 2017). Adolescent mental illness is also widespread in countries that conventionally rank among the happiest countries according to the World Happiness Report. In Norway, for example, 22% of high school students report depression or anxiety issues (Ungdata, 2018). This is important because mental health problems among adolescents are associated with various costly long-term outcomes such as lower labor market productivity, less marriage stability, and other adult health problems (Currie et al., 2010; Goodman et al., 2011; Lundborg et al., 2014).

Survey evidence indicates that school pressure is one of the main causes of adolescent worries (see e.g., Eriksen et al., 2017). However, we know little about the relationship between the school environment, and in particular school selectivity, and adolescent mental health. As it stands, the potential effects of school selectivity on mental health are ambiguous. On the one hand, a selective school, with more high-ability peers, might be a more stressful experience negatively affecting student mental health. On the other hand, peers at more selective schools may have different health care usage and display better health behaviors such as lower smoking rates or greater physical activity. Moreover, enrolling in a more selective school could result in different teacher characteristics and may be an inspiring experience that opens up new perspectives. This could positively influence student aspirations and mental health in both the short and long term. Because common determinants likely influence student choice of enrolling in a more selective high school and student health and health behaviors, and because data linking detailed school and health outcomes are not easily available, evidence on the causal effects of the school environment on student mental health remains very scarce.

This paper overcomes these identification and data challenges, providing new insights into how high school selectivity affects mental health. First, to overcome the identification problem, we build on the features of the high school assignment system in the two largest Norwegian cities, which assign students to high schools through a centralized process giving priority to students with the best average grades in middle school. This assignment system enables a regression discontinuity analysis, where we compare the long-term outcomes of students that are very similar at the end of middle school but are eligible to enroll in less or more selective high schools. Second, we link several administrative data sources, including information about

educational institutions and school grades, as well as health care take-up, and create a long panel allowing us to document the effects on outcomes during and beyond high school.

The available data also enable us to characterize the features of a more selective school environment with respect to peer and teacher characteristics, school size, and the number of students per teacher. These features may differ across countries and contexts and are therefore important to consider. Abdulkadiroğlu et al. (2014), for example, demonstrate that going to an exam school in Boston implies going to a school with higher-achieving peers, fewer Black and Hispanic students, more experienced teachers, and larger class sizes. In the context of Romania, Pop-Eleches and Urquiola (2013) also find variations in teacher characteristics across selective schools. In France, where the central administration attempts to equalize resources across schools, Landaud et al. (2018) reveal little variation in teacher characteristics or class sizes across selective Parisian high schools, despite large variation in student ability. Beyond documenting the implications of enrolling in a more selective high school in terms of peers, teachers, and other school features, we make use of the fact that we have variation in which of these school inputs changes more when enrolling in a more selective high school and implement a heterogeneity analysis. In essence, we estimate our regression discontinuity model for each of the 84 admission thresholds and each school feature separately and estimate whether changes in longer-term outcomes are greater when students gain eligibility to schools where peer and teacher characteristics or school resources change by a larger margin at the admission thresholds.

We present four key findings. First, we find that students that are eligible to enroll in a more selective high school are 8.3 percentage points more likely to enroll in the more selective school. Further, we show that eligibility to enroll in a more selective high school increases the likelihood of high school completion by 2.3 percentage points (4.2%) and the likelihood of enrollment in higher education by 1.6 percentage points (4.0%). Students gaining access to the most selective schools in our sample mostly drive these improvements in educational outcomes. Second, we document that eligibility to enroll in a more selective school does not affect the use of primary care services up to six years after high school completion but does decrease the likelihood of diagnosis or treatment for mental health issues. In particular, we estimate that eligibility for enrollment in a more selective school reduces the likelihood of mental health diagnosis or treatment (driven by a reduction in anxiety and depression) by 1.7 percentage points (5.2%). In particular, we conclude that female students and students gaining access to the most selective schools drive these estimated effects, whereas the mental health of male students is largely unaffected. Hence, our findings indicate that eligibility for enrollment in a more selective school is protective of the mental health of girls. Third, we investigate

what features of the school environment change at the threshold. We document that eligibility for enrollment in a more selective high school significantly changes the ability level of peers, peers' parental education and income, the number of students per teacher, and the share of female teachers. Lastly, our heterogeneity analysis suggests that changes in teacher characteristics—and not necessarily peer characteristics—could be important for explaining our main findings. Taken together, our findings provide key implications for ongoing policy debate over the consequences of school selectivity and the role of school inputs for student educational and health outcomes.

This paper particularly contributes to the literature on the relationships between education and health and school selectivity. Most empirical research identifying the causal effects of education on physical or mental health exploits exogenous variations from compulsory schooling reforms, regulations on school starting age, or school tracking (see, e.g., Böckerman et al., 2019; Clark and Royer, 2013; Crespo et al., 2014; Dursun and Cesur, 2016; Lager et al., 2016; Lleras-Muney, 2005; Meghir et al., 2018). We expand this literature by moving beyond changes in compulsory education, which mostly target individuals at the lower end of the educational distribution, and analyze the extent to which the high school environment links to health. Because the selectivity of higher education institutions correlates with student mental health and wellbeing (Fletcher and Frisvold, 2011, 2014; Frisvold and Golberstein, 2011), it is important to understand better the effect of high school selectivity, as well as the influence of high school peers, teachers, and financial resources on student health. Establishing this link is crucial for education policies aiming at improving the learning environment for students to increase their long-term welfare.

In addition, this paper complements the growing literature on the consequences of school selectivity (see e.g., Abdulkadiroğlu et al., 2017, 2014; Clark and Del Bono, 2016; Cullen et al., 2006; Dobbie and Fryer Jr, 2014; Jackson, 2013; Landaud et al., 2018; Pop-Eleches and Urquiola, 2013).¹ First, we expand the set of outcomes by studying the effects on health and educational outcomes after high school to provide a more complete longer-term picture of the effects of a more selective school environment. Our second contribution concerns the mechanisms behind the estimates. We combine a unique setting of 84 different school admission thresholds with detailed information on several school inputs (characteristics of peers, teachers, school size, and the number of students per teacher) to investigate which features of a more selective school environment may help explain our findings. Understanding the role of school inputs for educational outcomes or mental

 $^{^{1}}$ Note that our paper mostly relates to studies on selectivity in the context of nonelite schools. In our setting, school admission cutoffs are located between the 4^{th} and the 97^{th} percentile of the test score distribution after middle school in the areas of interest and on average located around the 40^{th} percentile.

health is important for explaining in what context selectivity matters. This could help reconcile why selective schools have negative or no effects in some contexts and positive effects in others.

2 Institutional Context

2.1 The Norwegian School System

The Norwegian education system consists of four levels: primary school (grades 1–7), middle school (grades 8–10), high school with academic (grades 11–13) and vocational (grades 11–14) tracks, and college and university education. Norwegian compulsory education starts at age six years, lasts for 10 years, and consists of primary and middle school. Compulsory schooling is organized by Norwegian municipalities and the vast majority (98%) of pupils attend local public schools. The curriculum is identical in all primary and middle schools, there is no streaming by ability, and all pupils are allocated to schools based on fixed school catchment areas within municipalities.

While there are no grades in primary school, the school system becomes more competitive from middle school onward, where exit exams and teacher grades are crucial for admission into the best high schools. At the end of grade 10, all students obtain a diploma with a total grade point average (hereafter, middle school GPA). This is the weighted total of all teacher-awarded grades, combined with the grades from written and oral exams in randomly drawn subjects.² The middle school GPAs possible range is from zero to 60, where 60 is the best possible grade. Assignment to high schools varies across counties.³ The two largest cities in Norway—Oslo and Bergen—have varied their intake systems over recent years. In this paper, we consider those years where they followed a free school choice system with a centralized intake based on the middle school GPA. That is, we study enrollment in general study programs in high schools located in Bergen from 2006 to 2010 and in Oslo from 2009 to 2010.

In contrast to the compulsory middle schools, enrollment in high schools is voluntary. Nevertheless, all students aged 16 to 23 years in Norway have a statutory right to enrollment at this level. However, this right is at the county level and does not ensure enrollment in a specific school or program. First time enrollment in high school in Norway is high: 98% of students enroll in the first year. Students enroll either in general studies

²The subjects of the teacher-awarded grades are written (two courses) and oral Norwegian, written and oral English, mathematics, nature and science, social sciences, religion, home economics, physical education, music, and arts and craft.

³Twelve of the 19 counties in Norway had a free school choice system in 2016. In rural counties, geographic criteria still largely determine student high school choice.

(50%), in vocational programs (45%), or in alternative training plans (3%). There is, however, considerable dropout in the second and third years: only 80% of students initially enrolled in general studies programs graduate. Graduation rates for vocational programs are even lower. Graduating in general studies provides students with the required qualifications for enrollment in higher education, while students graduating in the vocational track need to spend an additional year of study before reaching similar qualifications.

Although high school ranks are not important for access to higher education, high school grades and national exams at the end of high school determine access to higher education. In Norway, the intake to public higher education follows a centralized admission system based on total grade points from high school (hereafter, high school GPA). For those graduating high school with a general studies degree, about 40% do not enroll in any general higher education program.

2.2 High Schools in Oslo and Bergen

There are 15 public high schools in Bergen offering general education programs and 20 in Oslo. For Bergen, we focus on the five cohorts of students completing middle school between 2006 and 2010. For Oslo, we consider the two cohorts of students completing middle school between 2009 and 2010.⁴ During these periods, assignment to general programs in high school worked through a centralized system where students ranked schools and education programs, and were then assigned based on their ranked-ordered list and middle school GPA. Students could rank up to six different schools for enrollment in general studies. The key feature of this assignment system is that there is a minimum admission score for enrollment in general studies for each oversubscribed high school. Oversubscribed high school are high schools that receive more applications than they can accommodate. In the years we study, the majority of high schools in Bergen and Oslo were oversubscribed for enrollment in general studies, and we observe significant discontinuities in the rate of enrollment of students at specific cutoff points of the distribution of middle school GPA. This feature makes it possible to implement a regression discontinuity analysis to assess the effect of enrollment in general education programs in more or less selective high schools on subsequent health and educational outcomes.

To help with interpretation, we now briefly describe the Oslo and Bergen high schools. We focus on how they are similar and how they differ along key dimensions, such as peer and teacher quality and financial

⁴The health data we are using covers the years 2006–2016 which is why we start with the graduating cohort of 2006 in Bergen. For Oslo, we start in 2009 because high school assignment was based on geographical criteria rather than on the middle school GPA for the graduating cohorts between 2006 and 2008.

resources. High schools in Oslo and Bergen have on average about 540 students per school, and there are about 15 students per teacher. Resources for high schools are centrally allocated and based on the numbers of students, and there is variation across schools in both financial and teacher resources. For example, the top quartile of schools in terms of the students to teacher ratio has just nine students per teacher, while the lowest quartile of schools have 19.8.⁵ Similarly, the top quartile of schools in terms of teacher diploma have about 65% of teachers with a master's degree, while the lowest quartile of schools have none. Another key difference across high schools is student ability. The top quartile of schools in terms of student ability have students with an average middle school GPA of 50, while the lowest quartile of schools has students with an average GPA of 37.7.⁶ Because middle school GPA is correlated with gender and family background, we also observe significant differences in average student characteristics across high schools. Finally, all general programs offer compulsory core curriculum subjects like languages, natural sciences, and human sciences, but there is greater variety across schools in the availability of more specialized subjects like music, media, arts, and sports.

In section 5, we document how school characteristics vary on average at the admission thresholds and leverage this information on differences in school inputs at the thresholds to provide insights into what school characteristics may explain the average effects on health and education.

2.3 Health Services in Norway

In Norway, health services are publicly financed and universally accessible for all Norwegian citizens. The services are organized in two levels: primary care and specialist care. Primary health care is the responsibility of the municipalities and includes general practitioners, emergency rooms, infant and child health care centers, school health services, and elderly care. Specialist care is the responsibility of the four health regions in Norway and it includes somatic specialist care, psychiatric health services, and private referral specialists.

Primary and Specialist Health Services. General practitioners (hereafter GPs) and local emergency rooms (hereafter ERs) are the basis of the primary care services. The vast majority of Norwegian citizens

⁵Note that the students to teacher ratio does not necessarily reflect classroom size, rather the variety of teachers employed by the school given we measure the number of teachers employed at each school rather than the number of full-time positions.

⁶A middle school GPA of 50 or 37.7 corresponds to the 83rd percentile or the 35th percentile of the distribution of middle school GPA, respectively.

belong to a specific GP's list, and GPs are responsible for providing primary health care services to the patients on their list. GPs diagnose their patients, certify sick leave, prescribe treatments, and refer their patients to specialist care when needed. They also follow up on their patient after they have received care in the specialist system. In general, the GPs serve as gatekeepers to the specialist care system and health-related welfare benefits.

Most specialist care is provided through public hospitals and outpatient care clinics, but contracted private specialists can also provide specialist care. In general, the first contact with specialist care takes place via the referral of the patient by the GP or the ER because it is not possible for a patient to proceed directly to specialist care within the public health system.

School Health Services. All Norwegian school children and youth are entitled to vaccinations, health education, and guidance, as well as medical examinations and access to health care professionals when needed (Helse- og omsorgsdepartementet, 2003). For school-age children, these are responsibilities of the school health services. School health care services are easily accessible to students and are free of charge. These services are available at school premises during school hours and primarily provided by school nurses. School nurses are employed by municipalities and not by schools and may provide services to more than one school simultaneously. Importantly, the school health services are preventive. For curative purposes, the children are referred to primary or specialist care services (Helsetilsyn, 1998). One exception is that school nurses are entitled to prescribe birth control pills (free of charge) to young women aged 16–19 years.

There is no systematic registry of the actual use of school health services by students (Abrahamsen et al., 2019). Survey information from 2013 shows that about 25% of the students in high school use school health services at least once a year (Bakken, 2018). However, there are substantial gender differences in use: only about 13% of high school boys consult school nurses at least once a year, but 35% of high school girls. The most common reason for using school health services during high school are matters regarding sexuality and contraception.

⁷Younger children receive these services in child health care centers that also provide pre- and postnatal services for mothers and newborns.

3 Data and Empirical Strategy

3.1 Data

The data for this paper is compiled from several Norwegian administrative records, including the national educational registers, tax records, family registers, and health registers. We consider the sample of students that completed 10th grade between 2006 and 2010 in Bergen and in 2009 or 2010 in Oslo. In total, our sample comprises 19,932 individuals attending 87 different middle schools.

3.1.1 Demographic and Socioeconomic Information

The demographic and socioeconomic information is from registers covering the entire resident population in Norway up to 2014, which includes information such as the year and month of birth, gender, immigration status, municipality of residence in each year, and highest educational attainment. Information on earnings is from the tax registers. All registers include unique identifiers, and the population register specifies unique identifiers for the parents of each individual. This enables us to recover for each individual and his/her parents all relevant socioeconomic information.⁸

3.1.2 Schools and Educational Data

Information on enrollment in middle school, high school, and university is from the national educational registers and is available up to 2014. For each individual in our sample, we observe the middle and high schools attended, as well as the track in which the student enrolled, and the degrees, if any, completed. Educational choices and attainments are reported by the schools directly to Statistics Norway, thereby minimizing any measurement error from misreporting. For each student, we also observe the 10th grade GPA and the GPA upon completion of high school. Finally, these registers contain information about whether individuals enrolled in college up to four years after completion of middle school, including those who enroll in college immediately after graduating from high school or following a gap year.

For each high school, we have information about its staff from the Social Security records. This information allows us to construct proxies for teacher quality and school financial resources. In particular, we specify variables indicating the share of teachers with a master's degree, the average age of teachers,

⁸Both parental income and education are measured when students complete grade 10. For parental income, we specify the sum of the earnings of the mother and father. For parental education, we create an indicator variable taking a value of one if at least one parent completed a higher education degree.

the proportion of female teachers, students per teacher, students per non-educational staff, and the number of students per program. We also use information on student characteristics and high school enrollment to construct variables indicating for each student the average characteristics of peers in high school, such as the middle school GPA of peers, gender, parental education, and parental income.

3.1.3 Health Data

Information on visits to GPs and ERs is from the Control and Payment of Health Refunds database (acronym *KUHR* in Norwegian), which is available between 2006 and 2016. GPs and ERs are obliged to report all consultations and relevant International Classification of Primary Care (ICPC-2) codes to this national claims database to receive payment. ICPC codes convey information about the GPs' assessment of the patient's health problems and the type of care provided. Specifically, each ICPC code is made of one letter, indicating where the symptoms or diseases are located in the body, and two numbers indicating whether the GPs assessed health symptoms, diseases, prescribed a screening or preventive procedure, prescribed medication or treatments, analyzed test results, or performed an administrative task.9

Using this information, we constructed variables indicating whether and how many times each student visited a GP or ER between middle school completion and up to six years later, that is during the three years of high school and the first three post-high school years. In addition, as a selective school environment may have specific impacts on mental health issues, we constructed for each student a variable indicating whether during any consultation a GP assessed psychological symptoms or disease (ICPC codes beginning with the letter "P"). 10 When constructing these variables, we consider academic rather than calendar years, that is, we consider for each year t visits between August t and July t + 1.

3.2 Cutoff Admission Scores

Our data provide detailed information on student demographic characteristics, school environment, health, and education. However, we do not have information on student applications to and rankings of high schools. As a result, it is not possible directly to identify high school admission thresholds from the data.¹¹

⁹See Appendix B for the list of ICPC-2 codes.

¹⁰Note that we do not know whether students are diagnosed or treated for a psychological issue for the first time because we only observe GP and ER visits since 2006.

¹¹Unlike admissions to universities, which follow a nationwide assignment mechanism used in Kirkeboen et al. (2016), at high school level the admission system is decentralized at the county level. Unfortunately, we do not have information on student applications in these decentralized systems.

We, therefore, build on the methodology in Hansen (2000) to overcome this issue. This method was recently used by Hoekstra (2009) to identify admission thresholds and estimate the effect of going to a flagship university in the US and by Landaud et al. (2018) to study the effect of enrollment in selective Parisian high schools.¹² In addition, Porter and Yu (2015) show that this procedure can be used in combination with a standard regression discontinuity (RD) analysis without further adjustment or assumptions. In short, we identify schools for which there exists a significant positive discontinuity in enrollment rates and the procedure selects for each school the threshold that minimizes the number of incorrectly assigned students (i.e., enrolled students below the threshold or unenrolled students above the threshold).

In practice, for each cohort and high school in Bergen, we focus on the sample of 10^{th} graders in Hordaland county (the county where the city of Bergen is located). For high schools in Oslo, we consider the sample of 10^{th} graders in Oslo county. For each value g of the 10^{th} grade GPA score distribution, we define a dummy which takes a value of one if student's i score, f_i , is greater than or equal to the cutoff score g, $D_i^g = 1$ [$f_i \ge g$]. For each high school g in year g, we estimate the following regression for each value g (omitting subscript g):

$$E_{iz} = \alpha + \psi_z D_i^g + \varepsilon_{iz},\tag{1}$$

where E_{iz} takes a value of one if student i enrolls in high school z in year t, and zero otherwise. For each high school z in year t, we select as admission cutoff, f_z , the value of the 10^{th} grade GPA score g that maximizes the R^2 of equation (1) with a significantly positive $\hat{\psi}_z$. Further, we exclude a few admission thresholds with very small estimated discontinuities in enrollment rates around these cutoffs. For each oversubscribed high school z, we then define the subsample of 10^{th} graders whose middle school is located within eight kilometers of z. Then, for each student, we define his/her GPA score-distance $f_i - f_z$ to the cutoff admission score of high school z, and we use regression discontinuity analysis where we pool all subsamples of students and

¹²This approach has also been used in other settings, such as testing for discontinuities in the dynamics of neighborhood racial composition (see e.g., Card et al., 2008), or evaluation of social programs (see e.g., Carneiro et al., 2019).

¹³From the 105 estimated cutoffs, we exclude 21 with estimated discontinuities in enrollment rates below 0.015 percentage points, obtaining 84 oversubscribed high schools during the period of interest. In detail, we obtain 11 oversubscribed high schools in Bergen in 2006, 2008, and 2010, 10 in 2007, and 12 in 2009. For Oslo, we obtain 14 oversubscribed high schools in 2009 and 15 in 2010. Within each city and year, the admission cutoffs vary on average by two points between every two high schools of adjacent selectivity level.

¹⁴We use this criterion to maximize our first stage results because Fack et al. (2019) provide evidence that geographical proximity is a strong driver of student preferences over high schools. In addition, about 90% of students graduating from middle schools located in Bergen or Oslo during the years of interest and enrolled in general studies went to high schools located within eight kilometers of their middle school. The results are robust with respect to longer or smaller distance criteria when constructing the working sample.

use $f_i - f_z$ as a running variable.

3.3 Empirical Approach

To estimate the effects of a more selective school environment, following Lee and Lemieux (2010), we implement a standard regression discontinuity analysis where we compare students whose middle school GPA fell either just above or below the admission threshold of an oversubscribed high school. For each educational or health outcome Y_i in our data, we start by estimating the following model (omitting subscript t):

$$Y_i = \delta + \alpha \mathbb{1} \{ f_i - f_z \ge 0 \} + \eta (f_z - f_i) + \lambda (f_i - f_z) \times \mathbb{1} \{ f_i - f_z \ge 0 \} + X_i \gamma + \omega_z + u_i, \tag{2}$$

where $f_i - f_z$ measures the distance in points between school z's admission threshold and student i's middle school GPA. X_i is a set of control variables, which includes student age, gender, family background, and average GPA in grade 10 in mathematics and Norwegian. We also include as control variables a full set of cutoff dummies, ω_z , and u_i represents the unobserved determinants of student health and education. Under the maintained assumption that there is no discontinuity in the distribution of u_i at the cutoffs, the parameter α can be interpreted as the causal effect of eligibility for admission in a more selective high school on the outcome Y_i . The standard errors are clustered at the individual level, and we exclude students whose middle school GPA fell within 0.1 points of the admission thresholds from the analysis to avoid measurement error issues due to estimated cutoffs. We follow Calonico et al. (2014) to choose an optimal bandwidth around admission thresholds, which is 5.19 points. Finally, we use a triangular kernel centered on the admission cutoffs. In the following sections, we show that our results are robust to alternative functional forms, bandwidths, and sets of control variables.

Because we study the effects on a relatively large number of potentially correlated outcomes, we test which of the estimated impacts survive adjustment for multiple hypothesis testing. We use the procedure in algorithms 4.1 and 4.2 of Romano and Wolf (2005), which account for testing several hypotheses simultaneously. Romano and Wolf (2005) propose an iterative rejection/acceptance procedure for a fixed level of significance. We use 1,000 block-bootstrap replications to obtain the adjusted critical values (the block is the individual). The result tables indicate whether the coefficients remain significant at a level of 1, 5, or 10 percent after using this procedure.

In our context, the mapping from eligibility to enrollment is not one-to-one because students may not effectively enroll in the high schools for which they are eligible due to, for example, preferences for other programs or locations. Therefore, we present instrumental variable (IV) estimates where enrollment in a given selective high school is instrumented with eligibility for enrollment in this high school (Hahn et al., 2001). Note that these results should be interpreted cautiously because IV requires that the exclusion restriction and monotonicity hold. Eligibility for a more selective school increases enrollment to a preferred school, but could also have indirect effects via changes in psychological factors such as aspirations and disappointment. We provide suggestive evidence that this is unlikely to be a major factor in that the estimated effects on mental health appear mostly after high school, and thus do not reflect the mere short-term effect of enrolling (or failing to enroll) in a preferred school. We also emphasize that we estimate the IV on a set of compliers that may have different characteristics than the average students at the thresholds.

Descriptive Statistics. Table A1 provides descriptive statistics for the students in our working sample. For the sake of comparison, the table includes three samples: all students completing 10th grade in Norway between 2006 and 2010, students completing 10th grade in the county of Hordaland (where the city of Bergen is located) between 2006 and 2010 and in Oslo in 2009 and 2010, and our regression discontinuity sample. The main takeaway is that the average student in Hordaland or Oslo (Column (3)) is comparable to our RD sample of students (Column (5)). However, when compared with the average student in Norway (Column (1)), we can see that students in Oslo and Bergen are positively selected on educational outcomes and demographic characteristics. For example, students in Oslo and Bergen area in our RD sample specialize more often in the general education track compared with the average student in Norway. In addition, these students have better-off peers with higher middle school GPAs. They are also more likely to graduate from high school and enroll in higher education up to four years after commencing high school. Interestingly, students in Oslo and Bergen and our RD sample are as likely to visit a GP or an ER as the average student completing 10th grade in Norway. There are also no differences in the use primary health care services or likelihood of being diagnosed or treated by GPs for mental health problems.

In section 4, we present the results for the RD sample, and, in addition, separately by the level of school selectivity, where schools with high (low) selectivity levels are schools whose admission threshold fell in the

¹⁵Violations of the monotonicity assumption are unlikely in our setting because this would mean that students eligible to enroll in a more selective school are less likely to enroll in the more selective school compared with the lower-ranked school. In addition, strong first stages (results available upon request) across subgroups support the monotonicity assumption.

top (bottom) half of the distribution of cutoffs by city and year.

3.4 Tests of Identifying Assumptions

Students just above and below the cutoffs differ in their eligibility to enroll in a more selective high school, but we assume that they are similar in all other (observable and unobservable) predetermined dimensions. Below, we present evidence for the validity of our identification assumption.

Strategic Manipulation around Cutoff. One threat to identification would be that students willing to enroll in specific high schools manage to earn a score just above the admission thresholds. To provide empirical evidence that there is no strategic manipulation of the running variable at the cutoffs, Figure A1 presents the results when implementing the density tests suggested in McCrary (2008) on the full sample and separately by selectivity level. The panels in the figure illustrate that the density of the running variable is continuous at the cutoffs for the three samples, providing evidence supporting our identifying assumption.

Covariate Balance. Further, to assess the validity of our identification assumption of no discontinuity in unobserved determinants of students' health and education at the cutoffs, Table A2 reports the results of estimating model (2) using student baseline characteristics such as gender, nationality, and parental background as dependent variables. Consistent with our identification assumption, we do not observe systematic discontinuities in the predetermined characteristics of students whose middle school GPA fell just above or below the admission threshold of an oversubscribed high school. This is shown in Figure A2 in the Appendix including the corresponding graphical estimates of model (2), excluding controls X_i and ω_z , for the three samples we examine. The last row of each panel in Table A2 presents the F-test of joint significance obtained from regressing the eligibility dummy $\mathbb{1}\{f_i - f_z \ge 0\}$ on the full set of baseline variables. The F-tests presented in each panel suggest that there is no systematic manipulation around the cutoff because they do not reject the null hypothesis that the coefficients are jointly equal to zero.

The finding that student characteristics are continuous around admission thresholds is not very surprising in the setting we consider in that school admission cutoffs are ex ante impossible to predict precisely or manipulate. On average, school admission thresholds vary by 3.4 points from one year to the next, and they

¹⁶When estimating model (2) for balancing tests, we include a full set of cutoff/year dummies as control variables but do not control for student baseline characteristics.

are jointly determined by the preferences and middle school GPAs of all 10th graders in Hordaland or Oslo, which are unknown at the time of application.

Note that the results reported in Table A2 and Figure A2 do not rule out that the average ability of student peers varies discontinuously at the thresholds, along with other characteristics of peers and the school environment. For example, a more selective school might be able to attract better teachers. In section 5, we discuss this in detail and attempt to quantify whether the changes in a high school's environment at the cutoff explains the effects of enrollment in a more selective high school on student education and health.

4 Empirical Results

In this section, we first investigate how eligibility for enrollment in a more selective school affects actual enrollment. We then turn to consider the impacts on subsequent education and health.

4.1 First Stage Results

Figure 1 presents our first stage results, that is, the effect of eligibility for enrollment in a more selective school on actual enrollment in this high school. For each figure, the solid lines plot the fitted regression lines after estimating model (2) without controls for student baseline characteristics or cutoff dummies (i.e., X_i and ω_z). The plotted points are the conditional means of the dependent variable for students in a one-unit binwidth. At the top of each figure, we report the estimated α , which is the estimated effect of eligibility for enrollment in a more selective high school on actual enrollment, and its standard error. There is one figure for each sample under consideration: the whole sample (Panel a), students located around the admission thresholds of schools with above-median selectivity level (Panel b), and students located around the admission thresholds of schools with below-median selectivity level (Panel c). The three figures depict a significant increase in enrollment probability at the cutoffs. More precisely, the figures show that the enrollment probability of students is close to 2% below admission cutoffs, and increases by about eight percentage points for students scoring just above the cutoffs. This indicates that a significant share of students wants to attend a more selective school when offered this opportunity, and student willingness to attend more selective schools is somewhat higher for schools with higher selectivity levels.¹⁸ The estimates

¹⁷Note that one reason why the enrollment probability is not zero below the cutoff is that students with special needs (e.g., physical disabilities) may be accepted with a lower GPA to the geographically closest school.

¹⁸Recall that we do not know individual student preferences, hence many students could have preferences for other programs or school locations, explaining why enrollment is not increasing even more at the threshold.

for α in model (2) in Column (1) in Table 1 confirm these results.

4.2 Educational Outcomes

Figure 2 and Figure 3 present the estimated effects of eligibility for enrollment in a more selective school on the subsequent education of students. We focus on two outcomes: high school graduation in the general track and enrollment in general higher education, either on time or after a gap year. Figure 2 shows a discontinuity of 2.4 percentage points at the cutoff on the likelihood of high school graduation, driven entirely by the most selective high schools (Panel b). Figure 3 exhibits no average impact on enrollment in higher education (Panel a). However, there is an increase of 2.9 percentage points for the most selective high schools (Panel b). Columns (2) and (3) in Table 1 confirm these results. Note that the main findings remain significant after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).¹⁹

Our finding that eligibility for enrollment in a more selective school has positive effects on student educational outcomes differs from previous studies showing that elite school attendance in the US does not affect educational outcomes (see e.g., Abdulkadiroğlu et al., 2017, 2014; Dobbie and Fryer Jr, 2014)). However, it is in line with Pop-Eleches and Urquiola (2013) and Jackson (2013) who also consider nonelite settings and document the positive effects of attending more selective schools.²⁰ Hence, our focus on nonelite high schools—implying that the marginal students differ by context—may be an explanation for the differences in effects compared with the US. Other features of the education system, such as the centralized admission system to higher education in Norway, may also play a role in our findings. In particular, student ranks within their class or school are not of direct importance for access to higher education because only their rank in the national high school GPA distribution is crucial for the centralized admission system. This setting is different from the setting in the US or France where rank in a class or school is a central factor in college applications (Dobbie and Fryer Jr, 2014; Landaud et al., 2018).

Columns (1) and (2) in Table A3 in the Appendix present the IV estimates, where we rescale the intention-to-treat estimates by the probability of enrollment in a selective high school upon gaining eligibility for enrollment. Panel A shows that enrollment in a more selective high school increases the probability of

¹⁹The effects on educational outcomes are greater for boys and for the children of less-educated parents, although the differences are not significant (see Table A9).

 $^{^{20}}$ Even for the sample of above-median selectivity, we cover a large part of the GPA distribution. The more selective school admission cutoffs are located between the 39^{th} and the 97^{th} percentiles of the test score distribution after middle school in the areas of interest and on average located around the 63^{rd} percentile.

high school graduation and enrollment in higher education by 28 and 19 percentage points, respectively. While these estimates are large, the results are quite imprecise, and we cannot rule out quite modest effects. In most cases though, the IV estimates are statistically different from zero for the same outcomes as the reduced form effects. As discussed in subsection 3.3, we should interpret these results cautiously for several reasons. First, while the effects sizes are large in magnitude, the confidence intervals are also large and so we cannot rule out quite modest effects. Second, the compliers may differ from the average student around the discontinuity. Lastly, there could be violations of the exclusion restriction if eligibility operates through mechanisms other than enrollment. However, the fact that we find that many of the impacts evolve after high school suggests that this is likely not the main driver.

4.3 Health Outcomes

Next, we analyze the impacts of eligibility for enrollment in a more selective school on student health during and following high school. We first focus on the probability and number of visits to GPs or ERs. We then split the visits into two types: visits during which patients are diagnosed or treated for a mental health issue (i.e., ICPC-02 codes beginning with a "P" as described in Appendix B) and visits for other health assessments or treatments. Figure 4 depicts no discontinuities around the eligibility cutoffs in the probability of consulting with GPs or ERs (for any type of visit) during the six years after middle school graduation. However, Figure 5 shows a reduction of 1.7 percentage points in the likelihood of being diagnosed or treated for a mental health problem during GP or ER visits (Panel a). Individuals gaining access to high schools with above-median selectivity levels (Panel b) drive this fall. The estimates in Columns (4)–(7) in Table 1 present the corresponding point estimates for α in model (2). As shown, the estimated effect on mental health is driven by female students (see Column (5) in Table A9) and is stronger post high school (see Table A5).²¹

In Table 2, we examine the use of primary health care services in detail. In particular, we use the ICPC-2 codes to classify the different types of mental health problems, and create four categories: anxiety or depression symptoms and diseases, substance use, hyperkinetic disorders, and other psychological symptoms or disorders (see Table A4 for the classification of mental health conditions).²² As shown, the reduction in

²¹Columns (3) and (4) in Table A3 in the Appendix present the corresponding IV estimates, carrying with them the same cautiousness in interpretation as discussed for educational outcomes. Enrollment in a more selective high school instrumented by eligibility reduces the likelihood of being diagnosed or treated by a GP or an ER for psychological symptoms and diseases by 21 percentage points.

²²We bundle anxiety and depression together given the possibility of co-diagnoses and common treatments for both conditions (see, e.g., Pratt et al. (2017)). Hyperkinetic disorders include inattention, overactivity, and impulsivity. They include a variety of attention disorders such as attention deficit disorder (ADD) and attention deficit hyperactivity disorder (ADHD).

visits with depression or anxiety drives the reduction in the likelihood of consultations with mental health diagnoses or treatments. Note that this finding remains significant after adjusting the inference for multiple hypothesis testing.

4.4 Robustness Checks

To assess the robustness of our results, we check whether our main findings are sensitive to the choice of control variables, to different functional forms, to alternative bandwidths, and to focusing separately on the two cities we consider.

In our main specification, model (2), we control for several predetermined individual characteristics. In Table A6 we check that our main findings are robust to excluding these control variables, or to selecting a smaller set of control variables. Table A6 presents estimates for five outcomes: high school enrollment, high school graduation, enrollment in higher education, the probability of visits to GP/ER, and the probability of mental health diagnosis or treatment. For each outcome in Table A6, the first column does not include controls for the predetermined individual characteristics. In the second column, we select relevant control variables using the double lasso procedure suggested in Belloni et al. (2013). The point estimates remain nearly unchanged relative to our baseline results.

In addition, the estimates reported in Table A7 show that our main findings are robust to different functional forms for the running variable. Our preferred model controls for a linear spline function of the running variable with triangular weights. Table A7 presents the results with alternative functional forms for each of the five main outcomes. For each of the outcomes in Table A7, we allow for cutoff-specific trends when estimating model (2) in the first column. In the second column, we follow Lee and Lemieux (2010) who propose goodness-of-fit tests as an ancillary means to select an optimal polynomial function. In the third column, we employ nonparametric estimations using local linear regressions. The results are again similar to our baseline estimates.

In Figure A4, we report the point estimates and confidence intervals for our main outcomes for a wide range of bandwidths. The estimates show that our baseline estimates are highly robust to the choice of bandwidths in the neighborhood of the optimal bandwidth (i.e., the bandwidth that minimizes the mean square error).

Last, we turn our attention to see if a particular city is driving our main results. Table A8 presents estimates for α in equation 2 separately for each city (Bergen and Oslo). The estimates for α are similar

for both cities, suggesting that the main findings are not driven by one city alone. This provides suggestive evidence regarding the external validity of our results across cities.

There are different explanations for our estimated impacts on mental health. More selective schools could have an incapacitation effect if, for example, students have to study longer hours in more selective schools and do not have time to visit health services. This does not appear as a likely mechanism because we do not find any impact on the extensive or intensive margin of visits to GP/ER (Columns (4) and (5) of Table 1). Alternatively, our effects could reflect differences across schools in the availability or quality of school nurses.²³ To shed light on this potential mechanism, we evaluate year by year how GP or ER consultations with a psychological diagnosis or treatment vary across our sample. If school nurses were substitutes for psychological consultations during high school years, we would expect a sharp rise in the number of consultations with a psychological diagnosis or treatment after high school graduation (i.e., between year three and year four post-middle school graduation). Figure A3 in the Appendix reports the prevalence of mental health diagnoses or treatments upon GP/ER visits in our sample for each year after middle school graduation. The figure depicts a stable increase in the prevalence of primary health services with mental health diagnoses or treatments, which provides suggestive evidence that school nurses do not seem to act as substitutes for GP/ER visits. Finally, in our setting, gaining access to a more selective school also implies gaining access to a preferred school. As discussed earlier, our estimated effects on mental health appear mostly after high school (see Table A5), providing suggestive evidence that our effects do not reflect the mere short-term effect of enrolling (or failing to enroll) in a preferred school. Overall, our results do not seem driven by incapacitation effects, differences in the supply of health services, nor do they seem to link to a short-term feeling of success or failure. Rather, our results suggest that a more selective schooling environment is protective of (female) mental health. It is still possible that students perceive a more selective high school environment as more stressful, but our results suggest that the positive aspects of a more selective environment outweigh any potential increase in school pressure.

In section 5, we turn to studying whether peer and teacher characteristics or other school features vary discontinuously at the thresholds and whether these changes in school characteristics help to explain the effects on student mental health and longer-term educational outcomes.

²³As discussed in Section 2.3, school nurses are employed by municipalities not by schools.

5 Suggestive Mechanisms

Although all public Norwegian high schools follow a similar national curriculum, high schools vary along several dimensions. Because high school assignment is based on middle school GPA, student average ability varies significantly from one high school to another. Further, as a student's middle school GPA is correlated with their gender and family background, the proportion of female students and student parental backgrounds may also vary significantly across high schools. In addition, schools are independent in their hiring decisions resulting in a heterogeneous distribution of teacher characteristics across schools. Moreover, the allocation of financial resources to schools depends on the number of students, so that financial resources also vary by school size. To provide insights into what features of the schooling environment may influence student health and education outcomes, we also investigate changes in school characteristics at the thresholds. In a second step, we implement a heterogeneity analysis where we estimate our regression discontinuity model for each admission threshold and each school feature separately. This helps us to consider whether changes in longer-term educational choices and health outcomes are larger when students gain eligibility to schools where peer characteristics, teacher characteristics, or school resources change by a larger margin at the admission threshold.

First, Table 3 documents changes in peer characteristics at the threshold. Panel A of Table 3 shows that eligibility for enrollment in a more selective school improves the ability level of peers, increasing peer average middle school GPA by 4.4% of a standard deviation.²⁴ Just above the threshold, peers also have more educated parents with higher income levels. In contrast, we do not identify differences in the gender composition of peers on average (Panel A). The estimated impacts on peer ability are similar for high schools in the top and bottom halves of the selectivity distribution (Panels B and C). However, eligibility to enroll in a more selective school increases the share of female peers for the top half of the selectivity distribution but does not change peer parental background. On the contrary, there is no effect on the share of female peers, but a significant impact on peers' parental income and education for schools with lower selectivity levels.

Next, we explore how eligibility for enrollment impacts the high school educational program and school and teacher characteristics (see Table 4). The estimates in Columns (1) and (2) show that eligibility to enroll in a more selective high school increases the likelihood of enrolling in the general track, and correspondingly decreases the probability of enrolling in the vocational track. There are no impacts on high school programs

²⁴For each student, we computed the average standardized middle school GPA among students enrolled in the same track and high school in August following middle school completion.

around the cutoffs of highly selective high schools (Panel B); instead, schools in the bottom half of the selectivity distribution (Panel C) appear to drive this program substitution.

Then, we study school financial resources and the number of teachers and staff members per student. As discussed, the central allocation of financial resources is to schools based on the number of students. Hence, we proxy financial resources by the number of students enrolled in the same program-cohort. The estimates in Column (3) show that eligibility to enroll in a more selective high school is associated with 4.76 extra students in each student's own program at the cutoff (i.e., about 7% of the control mean). This appears driven by high schools in the bottom half of the selectivity distribution. Eligibility to enroll in a more selective high school also decreases the number of students per teacher but does not change the number of students per nonteaching staff (Columns (4) and (5)).

Lastly, we consider variations in teacher characteristics. In particular, we study whether eligibility to enroll in a more selective school changes the proportion of teachers with a master degree, the average age of high school teachers, and the proportion of female teachers. Panel A shows no significant discontinuities in teacher characteristics, expect for the proportion of female teachers.

In sum, enrollment in a more selective high school not only directly affects the characteristics of the peers with whom students interact but also the types of programs in which students enroll, the characteristics of their teachers and their number, and the financial resources of their school. The impacts on peers, teachers, and resources vary across the selectivity distribution and motivate the next section where we use these variations to explore the most likely mechanism driving our estimates.

5.1 Heterogeneity Analysis by Changes in School Inputs at the Thresholds

5.1.1 Empirical Approach

To further our understanding of selective school effects on education and health, we develop a heterogeneity analysis, which makes use of the fact that we have 84 different admission cutoffs with variations in how school characteristics change around these cutoffs. In our setting, for each admission threshold, the magnitude of the estimated eligibility effects on school inputs depends on two parameters: (1) the characteristics of the high school corresponding to the admission threshold under consideration and (2) the characteristics of high schools with lower selectivity levels. In this section, we analyze whether we obtain larger estimated effects on health and education around thresholds with larger changes in peer characteristics,

teacher characteristics, or other school features.

We restrict the analysis to two outcomes of interest: student enrollment in higher education and the probability of diagnosis or treatment of students by GPs or ERs for psychological conditions. We consider 11 different school inputs: the average middle school GPA of peers, the proportion of female students among high school peers, the parental education of peers, peers' parental income, the proportion of teachers with a master degree, the average age of teachers, the proportion of female teachers, the number of students per teacher, school size, the number of students per nonteaching staff, and student probability of enrolling in the general track. For each admission threshold z and each school input m, we estimate our standard RD model described in the previous section:

$$Y_{m,z,i} = \delta_{m,z} + \alpha_{m,z} \mathbb{1} \{ f_i - f_z \ge 0 \} + \eta_{m,z} (f_z - f_i) + \lambda_{m,z} (f_i - f_z) \times \mathbb{1} \{ f_i - f_z \ge 0 \} + X_i \gamma + u_{m,z,i}.$$
 (3)

The only difference relative to model (2) is that we estimate model (3) for each admission threshold separately, rather than pooling all admission thresholds with cutoffs by year fixed effects. For each school input and each admission threshold, we obtain the estimated parameters $\widehat{\alpha_{m,z}}$, which indicate the magnitude of the variation in the school input m around the admission threshold z. For each school input separately, we then divide the sample depending on whether the estimated effect on the input under consideration is above or below the median estimated effect, $\widehat{\alpha_{m,z}}$.

For each outcome and school input, we then estimate our basic RD model separately on subsamples characterized by the magnitude of the change in the school input under consideration at the thresholds. We use this heterogeneity analysis to respond to the following question: do larger changes in peer characteristics or teacher characteristics or in other school features coincide with greater estimated effects on student education and mental health?

5.2 Findings

Figure 6 provides the results of our heterogeneity analysis. First, Panel a in Figure 6 documents that there are significant differences in how each school input varies at the thresholds. Along all the dimensions we consider, the average change at the threshold in the input under consideration is significantly different for schools with a below- or above-median change. For example, for one group of schools, eligibility for

enrollment in a more selective school implies an increase in the share of female peers, while it implies a decrease in the share of female peers in the second group of schools. Similarly, for one group of schools, eligibility for enrollment in a more selective school implies an increase in the ratio of students per teacher, but a decrease in this ratio for the second group of schools.

Panel b of Figure 6 reports the RD results on enrollment in higher education using the same subsamples as in Panel a. This figure documents two significant differences: larger changes in the student–teacher ratio and the age of teachers coincide with larger estimated effects on enrollment in higher education. Panel c of Figure 6 reports the results for the probability of diagnosis or treatment by a GP for psychological symptoms or diseases. We identify significant differences in the estimated effects depending on the changes in the proportion of female teachers. By contrast, we find no empirical evidence that larger changes in peer ability or gender are important drivers of the results for education or health outcomes. Overall, our heterogeneity analysis suggests that changes in teacher characteristics are probably important to explain the observed positive impacts of attending a more selective high school.

Note that this analysis is only descriptive and that we should not interpret the findings as causal effects. The estimates are also not fully robust to the adjustments for multiple hypothesis testing. Moreover, the analysis does not exclude alternative mechanisms such as changes in student ambitions or confidence in the future.

6 Conclusion

This paper provides new insights into the relationship between the selectivity of the schooling environment and student educational outcomes and mental health. To identify causal effects, we build on the features of the high school assignment system in the two largest Norwegian cities, where the assignment of middle school students to high school is through a centralized process that gives priority to students with the best average middle school grades. This assignment system enables a regression discontinuity analysis, where we compare the education and health outcomes of students that are similar at the end of middle school but are eligible to enroll in more or less selective high schools. The direction of the effect on health and education outcomes is theoretically ambiguous. On the one hand, a selective school environment might be a stressful experience for marginal students and increase their (mental) health problems. On the other hand, a more selective school with better peers and different teachers might be an inspiring experience that opens up new

perspectives and improves student (mental) health in both the short and long term.

Our results show that eligibility for enrollment in a more selective school significantly improves school outcomes, increasing the likelihood of both high school completion and enrollment in higher education. In addition, we document that the eligibility to enroll in a more selective school does not affect the overall use of primary care services up to six years after high school completion, but does decrease a student's likelihood of diagnosis or treatment by a GP for mental health issues. These estimated effects on education and mental health appear driven by access to schools in the top half of the selectivity distribution, whereas female students drive the health effects.

Our heterogeneity analysis exploiting the 84 different admission cutoffs reveals that larger changes in the student–teacher ratio and age of teachers coincides with larger estimated effects on enrollment in higher education, and that larger changes in the share of female teachers coincide with larger estimated effects on student mental health. Overall, our heterogeneity analysis suggests that changes in teacher characteristics—and not necessarily peer characteristics—could be important for explaining the effects of a more selective school environment for a student's subsequent education and health.

An important open question for future research concerns the relationship between the estimated effects on health and educational outcomes. Do students graduate more from high school and enroll more in higher education because they are in better health (especially better mental health), or are they in better health because they are boosted by better educational prospects? Previous literature analyzing the effect of increases in compulsory education or changes in school tracking suggests that there are positive effects of expanding compulsory schooling on women's mental health and particularly self-reported depressive symptoms (Böckerman et al., 2019; Crespo et al., 2014; Dursun and Cesur, 2016). A question remains whether better educational prospects by the end of high school have similar positive effects on mental health. Alternatively, it could also be the case that similar improvements in school inputs drive both health and longer-term educational outcomes, even if they do not affect each other. For example, Elsner and Isphording (2017) argue that the ordinal ability rank of students in their cohort, which is negatively impacted when students gain eligibility to a more selective school, is an important determinant of engaging in risky behaviors that can impact both educational and health outcomes.

Besides complementing the existing literature on the effects of school selectivity on educational outcomes, we provide new knowledge on the relationship between school selectivity and mental health, and demonstrate that access to more selective schools decreases the risk of mental health problems. While a selective school

environment might still be a stressful experience for marginal students, our results suggest that the positive effects of enrolling in a more selective school outweigh this extra pressure over the long term.

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Figure 1 – Enrollment probability

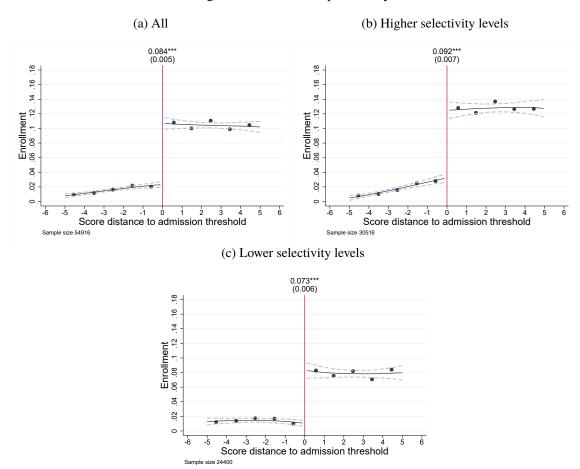
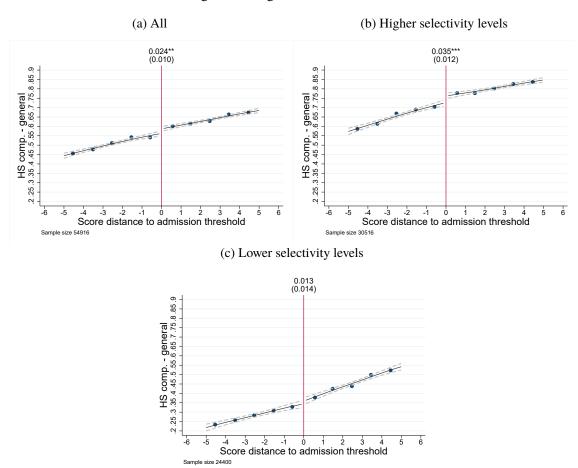
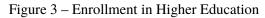


Figure 2 – High School Graduation





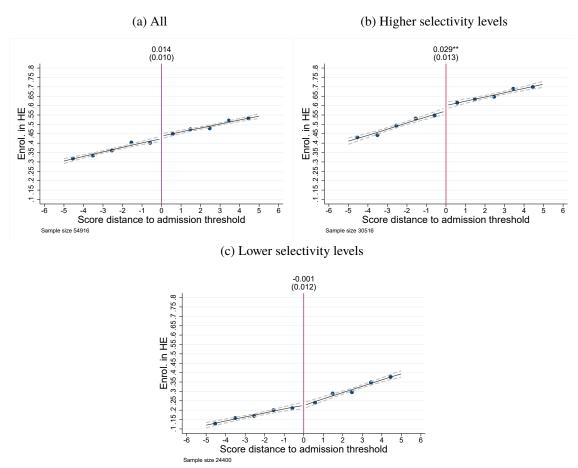


Figure 4 – Probability of Consulting with a GP or an ER

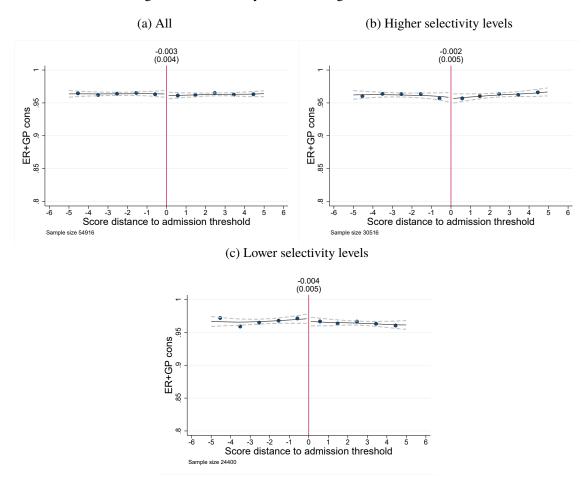


Figure 5 – Probability of being Diagnosed or Treated for a Mental Health Issue

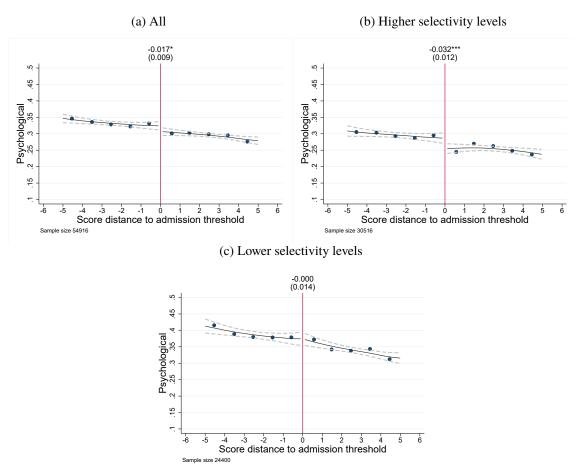
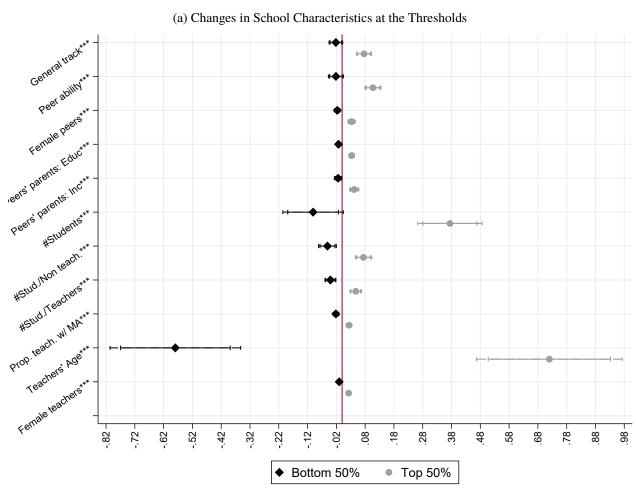
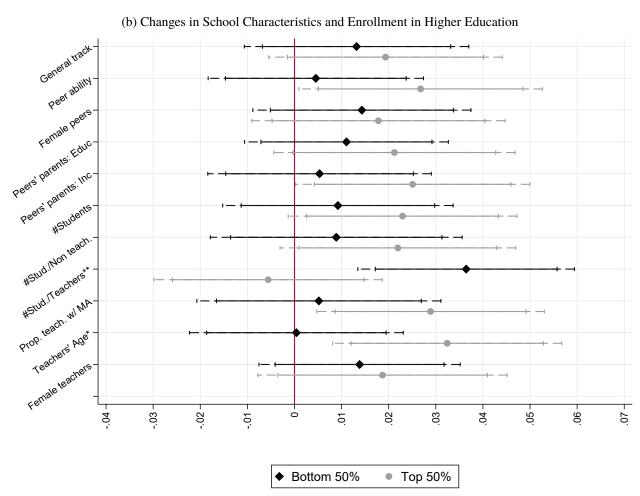


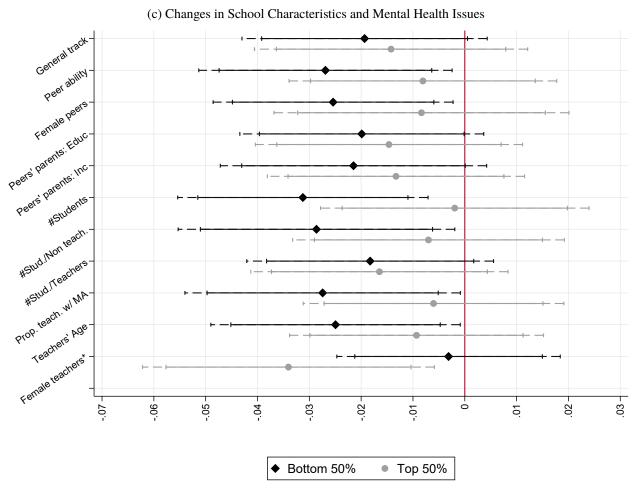
Figure 6 – Heterogeneity of Selective School Effects by Changes in School Characteristics



Note: Asterisks refer to the results of tests of the null hypothesis of no difference in the changes in inputs above or below the median estimated parameter where *** p<0.01, ** p<0.05, * p<0.1. All estimates are statistically different at the 5% level after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).



Note: Asterisks refer to the results of tests of the null hypothesis of no difference in the changes in inputs above or below the median estimated parameter where *** p<0.01, ** p<0.05, * p<0.1. Joint tests of the estimates are no longer statistically different at the 10% (or lower) level after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).



Note: Asterisks refer to the results of tests of the null hypothesis of no difference in the changes in inputs above or below the median estimated parameter where *** p<0.01, ** p<0.05, * p<0.1. Joint tests of the estimates are no longer statistically different at the 10% (or lower) level after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

Table 1 - High School Selectivity, Education, and Health

	(1) First stage enrollment	(2) High School graduation	(3) Enrollment in HE	(4) GP - ER cons.	(5) Nb. of GP - ER cons.	(6) Mental health issue	(7) Other health issue
Panel A: All Eligibility	0.083***	0.023***	0.016*	-0.003	-0.343	-0.017*	-0.004
Control mean N	.021	.542 54916	.402 54916	.964 54916	17.7 54916	.327 54916	.962 54916
<i>Panel B: Highe</i> Eligibility	ier selectivity Levels 0.091*** 0.0 (0.007)*** (0.	Levels $0.031***$ $(0.011)^{+}$	0.026**	-0.003	-0.738	-0.032***	-0.004
Control mean N	.027 30516		.539 30516	.961	16.6 30516	.291 30516	.960 30516
Panel C: Lower Eligibility	r selectivity Levels 0.073*** (0.006)***	evels 0.015 (0.013)	0.004	-0.005	0.185	0.002 (0.014)	-0.006
Control mean N	.013	.321 24400	.206 24400	.969 24400	19.2 24400	.380	.965 24400

Note: This table reports point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.01; *** p<0.01, ** p<0.01

Table 2 – High School Selectivity and Mental Health Diagnoses and Treatments

	(1)	(2)	(3)	(4)
	Depression/Anxiety	Subs. abuse	ADHD	Other psy.
Panel A: All				
Eligibility	-0.015*	0.001	-0.004	-0.008
	(0.008)	(0.004)	(0.003)	(0.007)
Control mean	.233	.0514	.0334	.153
N	54916	54916	54916	54916
Panel B: High	er Selectivity Levels			
Eligibility	-0.028***	-0.001	-0.006	-0.013
	$(0.010)^{+++}$	(0.005)	(0.004)	(0.009)
Control mean	.211	.0384	.024	.134
N	30516	30516	30516	30516
Panel C: Lowe	r Selectivity Levels			
Eligibility	0.002	0.004	-0.001	-0.001
	(0.013)	(0.008)	(0.006)	(0.011)
Control mean	.264	.0701	.0468	.18
N	24400	24400	24400	24400

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; **+ p<0.01, **+ p<0.05, * p<0.1 after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

Table 3 – Characteristics of High School Peers

	(1)	(2)	(3)	(4)
	Peers' av. MS GPA	Prop. of female peers	Parents o	f Peers
			Av. inc. (log)	Education
Panel A: All				
Eligibility	0.044***	0.006	0.016***	0.011***
	$(0.010)^{+++}$	(0.004)	$(0.005)^{+++}$	$(0.003)^{+++}$
Control mean	.0644	.463	13.5	.481
N	54916	54916	54916	54916
Panel B: Highe	er Selectivity Levels			
Eligibility	0.039***	0.012***	0.011	0.007
	$(0.012)^{+++}$	$(0.004)^{+++}$	(0.007)	(0.004)
Control mean	.353	.496	13.8	.568
N	30516	30516	30516	30516
Panel C: Lowe	r Selectivity Levels			
Eligibility	0.046***	0.000	0.018***	0.015***
ζ ,	$(0.015)^{+++}$	(0.007)	$(0.007)^{+++}$	$(0.005)^{+++}$
Control mean	349	.416	13.1	.357
N	24400	24400	24400	24400

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; **+ p<0.01, **+ p<0.05, * p<0.1 after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

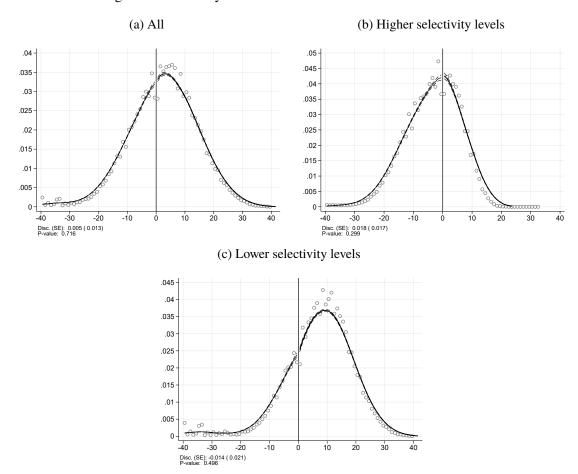
Table 4 - High School Education and Characteristics of High Schools Attended

(1) (2) General Vocational track track track (0.002** -0.018** (0.009)** (0.009)** (0.009)** (0.009)** (0.007) (0.010) **Per Selectivity Levels (0.012) (0.010) (0.012) (0.010) (0.010) (0.014) (0.013)*** (0.014)*** (0.013)**** (0.014)*** (0.013)****			1	i	ĺ	
track 0.0.018** 0.0.08** 0.008) ⁺⁺ .403 54916 -0.002 (0.010) .241 30516 els 0.041***	(3) nal #Stud.	(4) #Stud.	(5) #Stud.	(6) Share teachers	(7) Teachers'	(8) Share female
0.018** 0.008)+ .403 54916 vels -0.002 (0.010) .241 30516 els 0.041***	OW	/teachers	/non-teacher	w. masters	mean age	teachers
0.008)** 0.008)** .403 .54916 .els -0.002 .241 .30516 30516 5.013)***						
0.008)+ .403 54916 vels -0.002 (0.010) .241 30516 els 0.041***		-0.475*	0.189	-0.001	0.049	0.005**
.403 54916 vels -0.002 (0.010) .241 30516 els 0.041***		(0.280)	(0.348)	(0.003)	(0.089)	$(0.002)^{+}$
vels -0.002 -0.002 (0.010) .241 30516 els 0.013)****		15	21.2	.225	45.6	.498
vels -0.002 (0.010) .241 30516 els 0.041***		54916	54916	54916	54916	54916
0.007 -0.002 (0.012) (0.010) .673 .241 30516 30516 er Selectivity Levels 0.042*** -0.041*** (0.014)*** (0.013)***						
(0.012) (0.010) .673 .241 30516 30516 er Selectivity Levels 0.042*** -0.041*** (0.014)*** (0.013)***		-0.539	-0.142	-0.007	0.104	0.005
.673 .241 30516 30516 er Selectivity Levels 0.042*** -0.041*** (0.014)*** (0.013)***		(0.351)	(0.430)	(0.005)	(0.124)	(0.003)
30516 els 0.041***	92.1	15.6	22.8	.244	45.7	.517
els 0.041*** 0.013)***		30516	30516	30516	30516	30516
0.042*** -0.041*** (0.014)*** (0.013)***						
$(0.014)^{+++}$ $(0.013)^{+++}$		-0.450	0.569	900.0	-0.024	0.006
376 635	$\overline{}$	(0.530)	(0.552)	(0.005)	(0.124)	(0.004)
		14.2	18.8	.197	45.4	.472
N 24400 24400 2		24400	24400	24400	24400	24400

outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.01, ** p<0.01, Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the

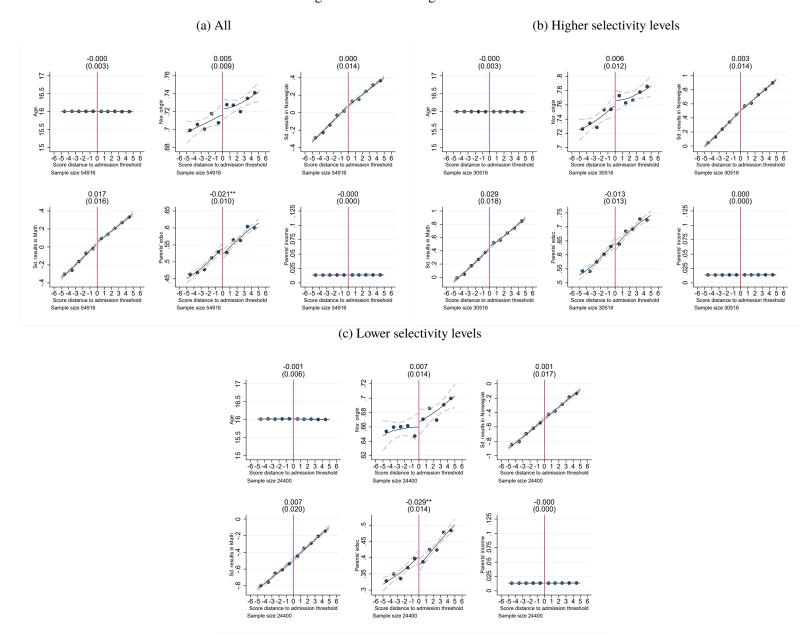
Appendix A

Figure A1 – Density of Observations around Admission Cutoffs



Note: These figures present nonparametric estimates of the density of observations on either side of the cutoff score following McCrary (2008). Each circle shows the average frequency of students per bin of the running variable. The solid lines represent estimated density functions, and the dashed lines are the 95 percent confidence intervals around it. The bottom right of each figure includes the estimated discontinuity for the density at the cutoff (standard errors in parentheses).

Figure A2 – Balancing of Covariates



Note: These figures plot the point estimates of α from equation (2) using a linear trend specification and triangular weights. The standard errors for the point estimates are clustered at individual level. The dashed lines are 95 percent confidence intervals. *** p<0.01, ** p<0.05, * p<0.1.



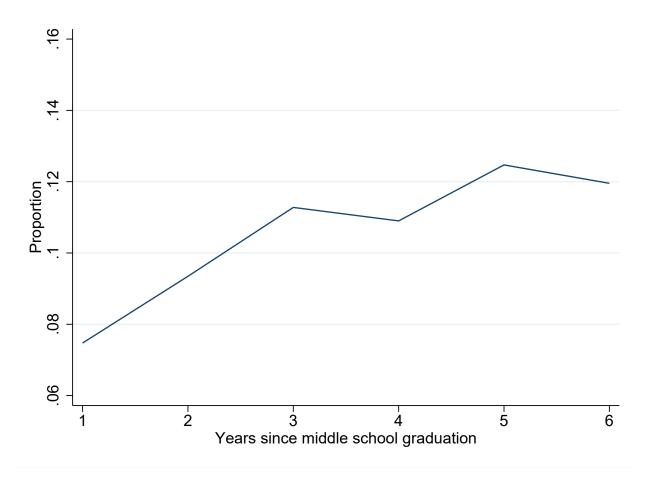
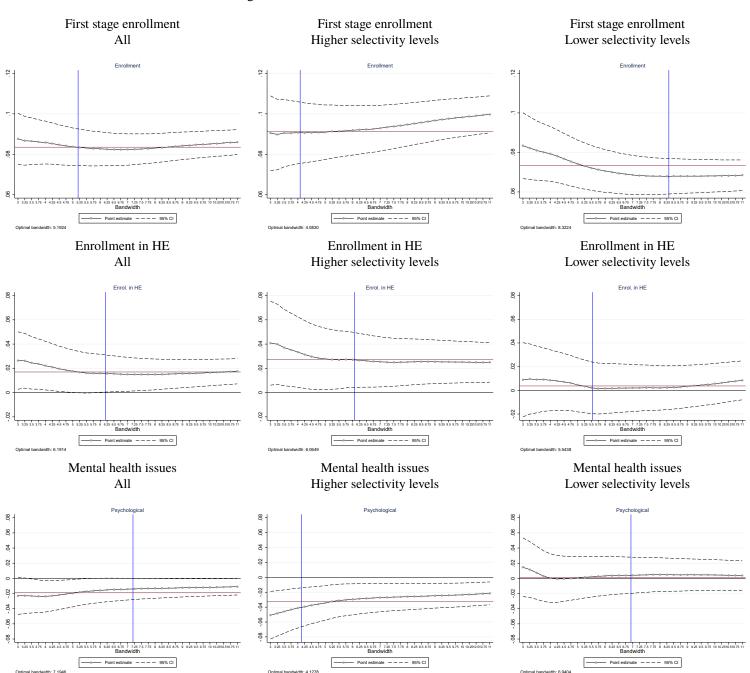


Figure A4 – Robustness to Bandwidth Selection



Note: Each point reports α from equation (2) with varying bandwidths. The solid red line represents the point estimates from a global linear specification with triangular weights. The vertical blue line shows the optimal bandwidth. The dashed lines are 95 percent confidence intervals.

Table A1 – Descriptive Statistics

	(1)	(2)	(3) Bergen are	(4)	(5) RD Sa	(6)
	Mean	SD	Mean	SD	Mean	ampie SD
	Mean	SD	Mean	3D	Mean	SD
Female	0.486	0.500	0.486	0.500	0.476	0.499
Age	16.078	0.906	16.038	0.649	16.008	0.154
Norwegian origin	0.827	0.378	0.793	0.405	0.734	0.442
Sd. results in Norwegian	0.000	0.987	0.112	0.965	0.081	0.858
Sd. results in Math	-0.000	0.985	0.074	0.982	0.054	0.916
Parental Background						
Parents' educ.	0.429	0.495	0.460	0.498	0.516	0.500
Parents' income	1018.177	1052.238	1091.964	1648.111	1159.468	1355.331
School Environment						
General studies	0.398	0.489	0.462	0.499	0.541	0.498
Vocational studies	0.509	0.500	0.475	0.499	0.405	0.491
#Students/Teacher	13.021	17.246	13.117	14.509	14.862	16.794
#Students/Non-Teacher	20.701	15.225	19.922	13.803	21.084	16.145
Share Teachers with Masters	0.308	0.206	0.276	0.232	0.253	0.253
Teachers age	48.308	4.031	48.122	4.379	47.470	4.628
Sh Female Teachers	0.508	0.125	0.499	0.133	0.518	0.132
#Stud own Program	53.859	71.566	55.685	64.991	71.757	71.139
Peers' Characteristics						
Peers' mean MS GPA	-0.010	0.693	0.104	0.703	0.134	0.715
Prop of female peers	0.461	0.285	0.462	0.277	0.472	0.251
Av Inc of Peers' parents	973147.298	345181.207	1039018.858	406465.607	1128266.195	447111.263
Education of Peers' parents	0.405	0.219	0.432	0.230	0.485	0.225
Mental Health of Peers' parents	0.243	0.090	0.243	0.086	0.248	0.078
Education						
HS graduation	0.615	0.487	0.634	0.482	0.657	0.475
Enrollment in HE	0.381	0.486	0.394	0.489	0.423	0.494
General Health						
GP - ER cons.	0.975	0.155	0.970	0.170	0.966	0.181
Nb. of GP - ER cons.	20.654	21.987	18.980	20.955	17.672	19.398
Physical health issue	0.973	0.163	0.968	0.177	0.963	0.188
Mental health issue	0.320	0.466	0.326	0.469	0.314	0.464
Mental Health Disorders						
Depression/Anxiety	0.220	0.414	0.232	0.422	0.223	0.416
Substance Use	0.053	0.223	0.057	0.232	0.052	0.222
ADHD	0.041	0.199	0.035	0.185	0.031	0.174
Other Psychological	0.155	0.361	0.153	0.360	0.143	0.350
N	312267		41306		19932	

Note: Means and (standard deviations) of background, school environment, education, and health during the period studied (i.e., 10^{th} graders completing middle school between 2006 and 2010). The table includes three samples: all students completing the 10^{th} grade in Norway between 2006 and 2010, students completing the 10^{th} grade in the county of Hordaland (where the city of Bergen is located) between 2006 and 2010 and in Oslo in 2009 and 2010, and our regression discontinuity (RD) sample.

Table A2 – Balancing tests

	(1) Female	(2) Age	(3) Nor. origin	(4) Sd. results in Norwegian	(5) Sd. results in Math	(6) Parents' educ.	(7) Parents' Income (log)
Panel A: All Eligibility	0.015	0.000	-0.002	900.0-	0.014	-0.020**	-0.018
·		(0.003)	(0.008)	(0.008)	(0.011)	+(0.009)+	(0.019)
Control mean	.451	16	.713	00739	0467	.532	13.8
Z	54916	54916	54916	54916	54916	54916	54916
p-value F-Test	0.878						
Panel B: Higher Selectivity Levels	er Selectiv	ity Levels					
Eligibility	0.021	-0.000	0.003	-0.009	0.020	-0.015	0.004
	(0.013)	(0.003)	(0.011)	(0.010)	(0.015)	(0.012)	(0.023)
Control mean	.486	16	.748	.391	.316	.622	13.9
Z	30516	30516	30516	30516	30516	30516	30516
p-value F-Test	0.715						
Panel C: Lower Selectivity Levels	r Selectivii	ty Levels					
Eligibility	0.006	0.000	-0.007	-0.003	0.005	-0.026*	-0.043
	(0.015)	(0.006)	(0.013)	(0.012)	(0.016)	(0.014)	(0.029)
Control mean	4.	16	.664	582	577	4.	13.7
Z	24400	24400	24400	24400	24400	24400	24400
p-value F-Test	0.529						

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.01, ** p<0.

Table A3 – Local Average Treatment Effects

	(1) High School Graduation	(2) Enrollment in HE	(3) GR - ER cons.	(4) Mental health issue
Panel A: All				
Enrollment	0.280***	0.191*	-0.041	-0.208*
	$(0.103)^{+++}$	$(0.104)^{+}$	(0.044)	$(0.107)^{+}$
N	54916	54916	54916	54916
Panel B: Hig	gher selectivity	Levels		
Enrollment	0.348***	0.292**	-0.032	-0.356***
	$(0.127)^{+++}$	$(0.139)^{++}$	(0.057)	$(0.129)^{+++}$
N	30516	30516	30516	30516
Panel C: Lo	wer selectivity I	Levels		
Enrollment	0.208	0.055	-0.064	0.025
	(0.176)	(0.155)	(0.071)	(0.191)
N	24400	24400	24400	24400

Note: This table reports the point estimates when instrumenting enrollment in a higher-ranked school by eligibility for enrollment, using a linear trend specification and triangular weights. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; **+ p<0.01, **+ p<0.05, * p<0.1 after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

Table A4 – Classification of Mental Health Conditions

Mental Health Condition Group	ping
Anvioty	DO1 Faaling anvious/narvous/tones
Anxiety	P01 Feeling anxious/nervous/tense P02 Acute stress reaction
	P06 Sleep disturbance
Danasaisa	P74 Anxiety disorder/anxiety state
Depression	P03 Feeling depressed
	P76 Depressive disorder
C. L. dans a III.	P77 Suicide/suicide attempt
Substance Use	P15 Chronic alcohol abuse
	P16 Acute alcohol abuse
	P17 Tobacco abuse
	P18 Medication abuse
	P19 Drug abuse
Hyperkinetic Disorders	P81 Hyperkinetic disorder
Other	P04 Feeling/behaving irritable/angry
	P07 Sexual desire reduced
	P08 Sexual fulfilment reduced
	P09 Sexual preference concern
	P10 Stammering/stuttering/tic
	P11 Eating problem in child
	P12 Bedwetting/enuresis
	P13 Encopresis/bowel training problem
	P20 Memory disturbance
	P22 Child behaviour symptom/complaint
	P23 Adolescent behav. Symptom/complt.
	P24 Specific learning problem
	P25 Phase of life problem adult
	P27 Fear of mental disorder
	P28 Limited function/disability (p)
	P29 Psychological symptom/complt other
	P70 Dementia
	P71 Organic psychosis other
	P72 Schizophrenia
	P73 Affective psychosis
	P75 Somatization disorder
	P78 Neuraesthenia/surmenage
	P79 Phobia/compulsive disorder
	P80 Personality disorder
	P82 Post-traumatic stress disorder
	P85 Mental retardation
	P86 Anorexia nervosa/bulimia
	P98 Psychosis NOS/other
	P99 Psychological disorders, other

Note: This table presents the grouping of mental health problems based on the ICPC-02 diagnoses.

Table A5 – Reduced Form Estimates: Mental Health Impacts During and After High School Years

	(1)	(2)
	High School Years	Post-High School Years
Panel A: All		
Eligibility (α)	0.004	-0.018**
	(0.007)	$(0.008)^{++}$
Control Mean	.182	.239
N	54916	54916
P-Value: HA: $\alpha_{col1} < \alpha_{col2}$	0.008	
Panel B: Higher Levels of S	electivity	
Eligibility (α)	-0.006	-0.027***
3 7 7	(0.009)	$(0.010)^{++}$
Control Mean	.155	.211
N	30516	30516
P-Value: HA: $\alpha_{col1} < \alpha_{col2}$	0.036	
Donal C. Lawan Lavala Cala	-4::4	
Panel C: Lower Levels Selec	•	0.005
Eligibility (α)	0.018	-0.006
	(0.012)	(0.013)
Control Mean	.220	.279
N	24400	24400
P-Value: HA: $\alpha_{col1} < \alpha_{col2}$	0.048	

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; **+ p<0.01, ** p<0.

Table A6 – Robustness Checks: Controls

	First stage enrollment	stage ment	High School Graduation	chool	Enrollment in HE	nent E	GR - ER cons.	R .	Mental health issue	lealth
	No controls Double Lasso	Double Lasso	No controls	Double Lasso	No controls	Double Lasso	No controls	Double Lasso	No controls	Double Lasso
Panel A: All Eligibility	<i>u</i> 0.083*** (0.005)	0.082***	0.024***	0.022**	0.017**	0.015*	-0.003	-0.003	-0.016*	-0.018**
Panel B: H Eligibility	Panel B: Higher Selectivity Levels Eligibility 0.090*** 0.091** (0.007) (0.007)	ity Levels 0.091*** (0.007)	0.033***	0.032***	0.029**	0.025**	-0.002	-0.002 (0.005)	-0.031*** (0.012)	-0.032*** (0.011)
Panel C: L. Eligibility	Panel C: Lower Selectivity Levels Eligibility 0.073*** 0.070* (0.006) (0.000)	ty Levels 0.070*** (0.006)	0.015 (0.013)	0.015 (0.012)	0.004	0.001	-0.004	-0.005	0.001	-0.000 (0.014)

Note: In this table, for each outcome presented, the first column reports estimates of model (2) without any control variable for the predetermined individual characteristics. The second column provides the point estimates of α where the relevant control variables are selected using the double lasso procedure in Belloni et al. (2013). Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1.

Table A7 – Robustness Checks: Functional Forms

(I)	(2) First stage enrollment	(3)	(4)	(5) High School Graduation	(9)	(7)	(8) Enrollment in HE	(6)	(10)	(11) GR - ER cons.	(12)	(13)	(14) Mental health issue	(15)
Cutoffs trends	Optimal	Local linear	Cutoffs trends	Optimal	Local linear	Cutoffs	Optimal	Local	Cutoffs trends	Optimal	Local linear	Cutoffs trends	Optimal	Local linear
Panel A: All Eligibility 0.084*** (0.005) Degree of opt. poly.	* 0.083*** (0.005)	0.084***	0.025***	0.023*** (0.009)	0.024**	0.017*	0.016* (0.009) 1	0.014	-0.004	-0.003 (0.004)	-0.003	-0.019**	-0.017* (0.009) 1	-0.017*
Panel B: Higher selectivity Levels Eligibility 0.091*** 0.091*** (0.007) (0.007) 0.0007 Degree of opt. poly. 1	ctivity Levels * 0.091*** (0.007)	0.092***	0.033***	0.054*** (0.018) 2	0.035***	0.027**	0.026** (0.012)	0.029**	-0.003	-0.003 (0.005)	-0.002	-0.033***	-0.052*** (0.018)	-0.032** (0.013)
Panel C: Lower selectivity Levels Eligibility 0.073*** 0.089*** (0.006) (0.010) Degree of opt. poly. 2	tivity Levels * 0.089*** (0.010)	0.073***	0.015	0.015 (0.013) 1	0.013	0.004	0.004 (0.011) 1	-0.001	-0.005	-0.005 (0.005) 1	-0.004	0.001	0.036 (0.033) 3	-0.000

Note: In this table, for each outcome presented, the first column reports estimates of model (2) controlling for cutoff-specific trends. The second column provides the point estimates of a where the polynomial is obtained from a bins test (i.e., estimating models with a full set of score dummies together with the different parametric trends for order 1 to 4 polynomials, and where the recommended polynomial is the specification in which the set of bin dummies are jointly insignificant). The third column reports point estimates of a using local linear estimations. All estimates include triangular weights. $\bar{\ }^{***}$ p<0.01, ** p<0.05, * p<0.1.

Table A8 - Robustness Checks: Analysis by City

		(2)	(3)	(4)	(5)	(9)	(7)	(8)	(6)	(10)
	First	First stage	High {	High School	Enrol	Enrollment	GR-	GR - ER	Menta	Mental health
	enroll	enrollment	Gradı	nation	in J	HE	cons.	ıs.	iss	issue
	Bergen	Oslo	Bergen	Oslo	Bergen	Oslo	Bergen	Oslo	Bergen	Oslo
Panel A: All	***************************************	***************************************	***************************************	*200	2100	0.018	0.003	0.00	0.015	9100
Lugioliuty	_	(0.006)+++	$(0.011)^{+}$	(0.013)	(0.011)	(0.014)	(0.005)	(0.006)	(0.011)	(0.014)
Control mean	0.029	0.013	0.547	0.537	0.352	0.455	0.966	0.962	0.334	0.321
Z		26400	28516	26400	28516	26400	28516	26400	28516	26400
Panel B: Higher s	er selectivity i	Levels								
Eligibility	0.107***	0.075***	0.030**	0.035**	0.025	0.030*	-0.002	-0.004	-0.028*	-0.035**
	$(0.011)^{+++}$ (0.008)	$(0.008)^{+++}$	$(0.015)^{+}$	$(0.017)^{+}$	(0.017)	(0.018)	(0.007)	(0.008)	(0.015)	$(0.017)^{+}$
Control mean	.040	.014	.718	929.	.498	.577	966	.963	.282	.299
Z	14809	15707	14809	15707	14809	15707	14809	15707	14809	15707
Panel C: Lower se	r selectivity L	evels								
Eligibility	0.090*** 0.05		0.016	0.012	0.005	0.002	-0.005	-0.004	-0.001	0.007
	$(0.009)^{+++}$	$(0.008)^{+++}$	(0.017)	(0.020)	(0.014)	(0.019)	(0.007)	(0.008)	(0.018)	(0.021)
Control mean	.015		.336	.302	.172	.249	.974	.961	398	.356
Z	13707	10693	13707	10693	13707	10693	13707	10693	13707	10693

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. Equation (2) estimated separately for students located in Hordaland (Bergen) or Oslo. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; +++ p<0.01, ** p<0.05, * p<0.1 after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

Table A9 – Heterogeneity Analysis by Student Gender and Social Background

	(1) First stage enrollment	(2) High School Graduation	(3) Enrollment in HE	(4) GR - ER cons.	(5) Mental health issue
Panel A: Girls					
Eligibility	0.076***	0.019	0.010	-0.001	-0.032**
	$(0.007)^{+++}$	(0.013)	(0.013)	(0.004)	$(0.014)^{++}$
Control mean	0.023	0.620	0.481	0.986	0.386
N	25561	25561	25561	25561	25561
Panel B: Boys					
Eligibility	0.089***	0.029**	0.022*	-0.005	-0.005
8 - 3	$(0.006)^{+++}$	$(0.011)^{++}$	$(0.011)^{+}$	(0.006)	(0.012)
Control mean	0.020	0.478	0.338	0.947	0.279
N	29355	29355	29355	29355	29355
Panel C: Paren	its with highe	r education			
Eligibility	0.099***	0.012	0.012	-0.002	-0.015
8	$(0.007)^{+++}$	(0.012)	(0.012)	(0.005)	(0.012)
Control mean	0.026	0.631	0.471	0.958	0.311
N	29478	29478	29478	29478	29478
Panel D: Parer	ıts without hi	gher education			
Eligibility	0.064***	0.035***	0.020*	-0.005	-0.020
2 ,	$(0.006)^{+++}$	$(0.013)^{+++}$	(0.012)	(0.005)	(0.013)
Control mean	0.016	0.444	0.327	0.971	0.346
N	25438	25438	25438	25438	25438
Panel E: high	parental inco	me			
Eligibility	0.097***	0.024**	0.006	-0.007	-0.026**
<i>Gj</i>	$(0.007)^{+++}$	$(0.012)^+$	(0.012)	(0.006)	$(0.012)^{++}$
Control mean	0.023	0.634	0.481	0.962	0.292
N	27738	27738	27738	27738	27738
Panel F: low p	arental incom	ie			
Eligibility	0.068***	0.021*	0.025**	0.001	-0.010
2 5	$(0.006)^{+++}$	(0.012)	$(0.012)^{++}$	(0.005)	(0.013)
Control mean	0.020	0.455	0.327	0.966	0.361
N	27178	27178	27178	27178	27178

Note: This table reports the point estimates of α from equation (2) using a linear trend specification and triangular weights. The calculated mean of the outcome variable is for the control group, i.e., those with a score distance to admission cutoffs at most two points below the cutoff. Clustered standard errors (at individual level) in parentheses. *** p<0.01, ** p<0.05, * p<0.1; +++ p<0.01, ++ p<0.05, + p<0.1 after accounting for multiple hypothesis testing using the procedure described in Romano and Wolf (2005).

Appendix B

Blood, Blood Forming ICPC-2 - English Musculoskeletal Eye Neck symptom/complain **International Classification of Organs and Immune** Back symptom/complaint Red eye Eye discharge Visual floaters/spots Primary Care - 2nd Edition Mechanism F03 Low back symptom/complaint Chest symptom/complaint **Wonca International** F04 Lymph gland(s) enlarged/painful Blood symptom/complaint Visual disturbance other Eye sensation abnormal Flank/axilla symptom/complaint **Classification Committee** Jaw symptom/complaint F13 Wonca Fear of aids/HIV (WICC) Eye movements abnormal L08 Shoulder symptom/complaint Fear cancer blood/lymph Arm symptom/complaint Eye appearance abnormal Eyelid symptom/complaint F15 Fear blood/lymph disease other Limited function/disability B27 Elbow symptom/complaint L10 Wrist symptom/complaint F17 Glasses symptom/complaint **Process codes** Sympt/complt lymph/imm Hand/finger symptom/complaint Hip symptom/complaint Contact lens symptom/complaint L12 Lymphadenitis acute Medical Exam/Eval-Complete F27 Fear of eye disease Limited function/disability (f) B71 Lymphadenitis non-specific Leg/thigh symptom/complaint Knee symptom/complaint Medical Examination/Health Evaluation-L14 Hodgkin's disease/lymphoma Partial/Pre-op check F29 Eye symptom/complaint other Leukaemia B73 Sensitivity Test Conjunctivitis infectious L16 Ankle symptom/complaint Malignant neoplasm blood other Microbiological/Immunological Test Foot/toe symptom/complaint -33 F71 Conjunctivitis allergic Benign/unspecified neoplasm blood Ruptured spleen traumatic B75 -34 -35 Blepharitis/stye/chalazion Muscle pain Muscle symptom/complaint NOS L18 Urine Test F73 Eve infection/inflammation other Injury blood/lymph/spleen other Hereditary haemolytic anaemia **B77** Neoplasm of eye/adnexa L20 Joint symptom/complaint NOS Fear of cancer musculoskeletal Histological/Exfoliative Cytology Other Laboratory Test NEC -37 -38 F75 Contusion/haemorrhage eye B79 Congen.anom. blood/lymph other Iron deficiency anaemia Foreign body in eye L27 Fear musculoskeletal disease other F76 Limited function/disability (l) Injury eye other Blocked lacrimal duct of infant -39 Physical Function Test F79 Anaemia, Vitamin B12/folate def. Diagnostic Endoscopy Diagnostic Radiology/Imaging Sympt/complt. Musculoskeletal other L29 Anaemia other/unspecified Purpura/coagulation defect B82 fections musculoskeletal system -41 F81 Congenital anomaly eye other Detached retina Electrical Tracings Other Diagnostic Procedures Preventive Imunisations/Medications -42 -43 Malignant neoplasm musculoskeletal 1.71 Unexplained abnormal white cells Fracture: radius/ulna F83 Retinopathy Splenomegaly HIV-infection/aids L73 Fracture: tibia/fibula Macular degeneration Fracture: hand/foot bone L74 -45 Observe/Educate/Advice/Diet F85 Corneal ulcer Blood/lymph/spleen disease other Consult with Primary Care Provider Trachoma L75 Fracture: femur Fracture: other Consultation with Specialist Clarification/Discuss Patient's RFE -47 F91 Refractive error 1.77 Sprain/strain of ankle Cataract PROCESS CODES -49 Sprain/strain of knee Other Preventive Procedures F93 Glaucoma Sprain/strain of joint NOS Dislocation/subluxation Medicat-Script/Reqst/Renew/Inject L79 F94 Blindness SYMPTOMS/COMPLAINTS -51 Incise/Drain/Flush/Aspirate F95 Strahismus Injury musculoskeletal NOS Congenital anomaly musculoskeletal -52 Excise/Remove/Biopsy/Destruction/ Eve/adnexa disease, other F99 INFECTIONS Debride Ear H Instrument/Catheter/Intubate/Dilate 1.83 Neck syndrome NEOPLASMS H01 Ear pain/earache Back syndrome w/o radiating pain -54 -55 Repair/Fixate-Suture/Cast/Prosthetic Local Injection/Infiltration L84 Hearing complaint L85 Acquired deformity of spine H02 **INTURIES** Dress/Press/Compress/Tamponade Physical Medicine/Rehabilitation Tinnitus, ringing/buzzing ear L86 Back syndrome with radiating pain -56 H03 Bursitis/tendinitis/synovitis NOS Rheumatoid/seropositive arthritis Ear discharge L87 -57 **CONGENITAL ANOMALIES** -58 Therapeutic Counselling/Listening H05 Bleeding ear Osteoarthrosis of hip Other Therapeutic Procedure NEC Plugged feeling ear L89 -60 -61 Results Tests/Procedures Results Exam/Test/Record Concern with appearance of ears Osteoarthrosis of knee OTHER DIAGNOSES H15 L90 Fear of ear disease T.91 Osteoarthrosis other Limited function/disability ear L92 Shoulder syndrome -62 Administrative Procedure H28 L93 L94 Ear symptom/complaint other Tennis elbow Osteochondrosis Digestive H29 Follow-up Encounter Unspecified Encounter Initiated by Provider Encounter Initiated third person -64 Abdominal pain/cramps general Abdominal pain epigastric H70 Otitis externa Acute otitis media/myringitis 1.95 Osteoporosis H71 -65 -66 -67 Refer to Other Provider (EXCL. M.D.) Referral to Physician/Specialist/ Acute internal damage knee H72 Serous otitis media D03 Heartburn Neoplasm benign/unspec musculo Eustachian salpingitis L97 Rectal/anal pain Acquired deformity of limb Musculoskeletal disease, oth Clinic/Hospital Chronic otitis media D05 Perianal itching Abdominal pain localized other -68 Other Referrals NEC Neoplasm of ear Other Reason for Encounter NEC H76 Foreign body in ear N Neurological D07 Dyspepsia/indigestion Perforation ear drum Flatulence/gas/belching General and D08 N01 Headache H78 Superficial injury of ear D09 Nausea Ear injury other Pain face N03 Unspecified A D10 Vomiting H80 Congenital anomaly of ear D11 Diarrhoea A01 Pain general/multiple sites N05 Tingling fingers/feet/toes Sensation disturbance other Excessive ear wax D12 Constipation Chills A02 H82 Vertiginous syndrome D13 Jaundice A03 Fever Otosclerosis N07 Convulsion/seizure D14 Haematemesis/vomiting blood Weakness/tiredness general A04 Abnormal involuntary movements H84 Presbvacusis D15 Melaena Feeling ill Fainting/syncope Disturbance of smell/taste Vertigo/dizziness A05 Acoustic trauma N16 Rectal bleeding D16 H86 Deafness D17 Incontinence of bowel A07 Coma Ear/mastoid disease, other N18 Paralysis/weakness D18 Change faeces/bowel movements Swelling Speech disorder A08 Cardiovascular K D19 Teeth/gum symptom/complaint Sweating problem Bleeding/haemorrhage NOS Fear cancer neurological system Fear of neurological disease other A09 N26 Mouth/tongue/lip symptom/complt D20 A10 K01 Heart pain D21 Swallowing problem Chest pain NOS Concern/fear medical treatment Pressure/tightness of heart N28 Limited function/disability (n) Neurological symptom/complt. other D23 Hepatomegaly Cardiovascular pain NOS D24 Abdominal mass NOS A16 A18 Irritable infant Palpitations/awareness of heart N70 Poliomyelitis Abdominal distension D25 Concern about appearance Meningitis/encephalitis K05 Irregular heartbeat other D26 Fear of cancer of digestive system A20 Euthanasia request/discussion Risk factor for malignancy Prominent veins N72 Tetanus D27 Fear of digestive disease other Limited function/disability (d) A21 Neurological infection other K07 Swollen ankles/oedema D28 A23 A25 Risk factor NOS Fear of death/dying N74 Malignant neoplasm nervous system Risk factor cardiovascular disease D29 Digestive symptom/complaint other K24 Fear of heart disease N75 Benign neoplasm nervous system Gastrointestinal infection D70 A26 Fear of cancer NOS Fear of hypertension N76 Neoplasm nervous system unspec. D71 Mumps Fear of other disease NOS A27 Fear cardiovascular disease other Limited function/disability (k) N79 Concussion K27 Viral hepatitis A28 Limited function/disability NOS Head injury other General symptom/complaint other D73 Gastroenteritis presumed infection Injury nervous system other Congenital anomaly neurological A29 Cardiovascular sympt./complt. other Infection of circulatory system N81 D74 Malignant neoplasm stomach Tuberculosis N85 A70 K70 Malignant neoplasm colon/rectum A71 Multiple sclerosis Measles Rheumatic fever/heart disease N86 Malignant neoplasm pancreas A72 Chickenpox Neoplasm cardiovascular N87 Parkinsonism K72 Malig. neoplasm digest other/NOS D77 A73 Malaria Congenital anomaly cardiovascular Ischaemic heart disease w. angina N88 Epilepsy Neoplasm digest benign/uncertain Rubella K74 Foreign body digestive system Injury digestive system other D79 A75 Cluster headache Infectious mononucleosis Acute myocardial infarction N90 D80 D81 A76 Viral exanthem other N91 Facial paralysis/bell's palsy Ischaemic heart disease w/o angina K76 Congen. anomaly digestive system Viral disease other/NOS Heart failure Atrial fibrillation/flutter Trigeminal neuralgia Carpal tunnel syndrome A77 K77 K78 N92 Teeth/gum disease Infectious disease other/NOS Mouth/tongue/lip disease Oesophagus disease D83 Malignancy NOS A79 Paroxysmal tachycardia Peripheral neuritis/neuropathy Tension headache Trauma/injury NOS Cardiac arrhythmia NOS Heart/arterial murmur NOS K80 D85 Duodenal ulcer A81 Multiple trauma/injuries K81 Neurological disease, other Secondary effect of trauma Pulmonary heart disease K82 D87 Stomach function disorder Poisoning by medical agent Adverse effect medical agent A84 Heart valve disease NOS Appendicitis K84 Heart disease other D89 Inguinal hernia Hiatus hernia A86 Toxic effect non-medicinal substance Elevated blood pressure Complication of medical treatment K86 Hypertension uncomplicated Abdominal hernia other Diverticular disease D91 **A88** Adverse effect physical factor Hypertension complicated Effect prosthetic device Postural hypotension Congenital anomaly OS/multiple Abnormal result investigation NOS D93 Irritable bowel syndrome A90 Transient cerebral ischaemia Chronic enteritis/ulcerative colitis K90 Stroke/cerebrovascular accident D95 Anal fissure/perianal abscess A92 Allergy/allergic reaction NOS Cerebrovascular disease Worms/other parasites Premature newborn K92 Atherosclerosis/PVD Liver disease NOS Perinatal morbidity other Perinatal mortality A94 Pulmonary embolism Cholecystitis/cholelithiasis K94 Phlebitis/thrombophlebitis Disease digestive system, other A96 Death Varicose veins of leg A97 No disease Haemorrhoids A98 Health maintenance/prevention

General disease NOS

De	ychological P	Sk	in S	TT-	ological U	X75	
	Feeling anxious/nervous/tense	SO1	Pain/tenderness of skin		Dysuria/painful urination	X76 X77	
P02	Acute stress reaction	S02	Pruritus	U02	Urinary frequency/urgency	X78	
P03 P04	Feeling depressed Feeling/behaving irritable/angry	S03 S04	Warts Lump/swelling localized	U04 U05	Incontinence urine Urination problems other	X79	Benign neoplasm breast female
P05	Senility, feeling/behaving old	S05	Lumps/swellings generalized	U06	Haematuria	X80 X81	Benign neoplasm female genital Genital neoplasm oth/unspecied (f)
P06 P07	Sleep disturbance Sexual desire reduced	S06 S07	Rash localized	U07 U08	Urine symptom/complaint other	X82	Injury genital female
P01	Sexual fulfilment reduced	S08	Rash generalized Skin colour change	U13	Urinary retention Bladder symptom/complaint other	X83 X84	
P09	Sexual preference concern	S09	Infected finger/toe	U14	Kidney symptom/complaint	X85	Cervical disease NOS
P10 P11	Stammering/stuttering/tic Eating problem in child	S10 S11	Boil/carbuncle Skin infection post-traumatic	U26 U27	Fear of cancer of urinary system Fear of urinary disease other	X86 X87	
P12	Bedwetting/enuresis	S12	Insect bite/sting	U28	Limited function/disability urinary	X88	Uterovaginal prolapse Fibrocystic disease breast
P13 P15	Encopresis/bowel training problem	S13	Animal/human bite Burn/scald	U29 U70	Urinary symptom/complaint other	X89	Premenstrual tension syndrome
P16	Chronic alcohol abuse Acute alcohol abuse	S14 S15	Foreign body in skin	U71	Pyelonephritis/pyelitis Cystitis/urinary infection other	X90 X91	Genital herpes female Condylomata acuminata female
P17	Tobacco abuse	S16	Bruise/contusion	U72	Urethritis	X92	Chlamydia infection genital (f)
P18 P19	Medication abuse Drug abuse	S17 S18	Abrasion/scratch/blister Laceration/cut	U75 U76	Malignant neoplasm of kidney Malignant neoplasm of bladder	X99	
P20	Memory disturbance	S19	Skin injury other	U77	Malignant neoplasm urinary other		ale Genital Y
P22 P23	Child behaviour symptom/complaint Adolescent behav. Symptom/complt.	S20 S21	Corn/callosity Skin texture symptom/complaint	U78 U79	Benign neoplasm urinary tract Neoplasm urinary tract NOS	Y01 Y02	
P24	Specific learning problem	S22	Nail symptom/complaint	U80	Injury urinary tract	Y03	Urethral discharge
P25 P27	Phase of life problem adult Fear of mental disorder	S23 S24	Hair loss/baldness Hair/scalp symptom/complaint	U85 U88	Congenital anomaly urinary tract Glomerulonephritis/nephrosis	Y04 Y05	Penis symptom/complaint other Scrotum/testis sympt/complt. other
P28	Limited function/disability (p)	S24	Fear of cancer of skin	U90	Orthostatic albumin./proteinuria	Y06	Prostate symptom/complaint
P29	Psychological symptom/complt other	S27	Fear of skin disease other	U95	Urinary calculus	Y07	Impotence NOS
P70 P71	Dementia Organic psychosis other	S28 S29	Limited function/disability (s) Skin symptom/complaint other	U98 U99	Abnormal urine test NOS Urinary disease, other	Y08 Y10	
P72	Schizophrenia	S70	Herpes zoster		egnancy,	Y13	Sterilization male
P73 P74	Affective psychosis Anxiety disorder/anxiety state	S71 S72	Herpes simplex Scabies/other acariasis			Y14 Y16	
P75	Somatization disorder	S73	Pediculosis/skin infestation other		ildbearing, Family	Y24	Fear of sexual dysfunction male
P76	Depressive disorder	S74	Dermatophytosis		anning W	Y25	Fear sexually transmitted dis. male
P77 P78	Suicide/suicide attempt Neuraesthenia/surmenage	S75 S76	Moniliasis/candidiasis skin Skin infection other		Question of pregnancy	Y26 Y27	Fear of genital cancer male Fear of genital disease male other
P79	Phobia/compulsive disorder	S77	Malignant neoplasm of skin	W02 W03	Fear of pregnancy Antepartum bleeding	Y28	Limited function/disability (y)
P80 P81	Personality disorder Hyperkinetic disorder	S78 S79	Lipoma Neoplasm skin benign/unspecified	W05	Pregnancy vomiting/nausea	Y29 Y70	Genital sympt./complt.male other Syphilis male
P82	Post-traumatic stress disorder	S80	Solar keratosis/sunburn	W10 W11	Contraception postcoital Contraception oral	Y71	Gonorrhoea male
P85 P86	Mental retardation Anorexia nervosa/bulimia	S81 S82	Haemangioma/lymphangioma Naevus/mole	W12	Contraception intrauterine	Y72 Y73	Genital herpes male Prostatitis/seminal vesiculitis
P98	Psychosis NOS/other	S83	Congenital skin anomaly other	W13 W14	Sterilization Contraception other	Y74	Orchitis/epididymitis
P99	Psychological disorders, other	S84	Impetigo	W15	Infertility/subfertility	Y75	
Re	spiratory R	S85 S86	Pilonidal cyst/fistula Dermatitis seborrhoeic	W17	Post-partum bleeding	Y76 Y77	Condylomata acuminata male Malignant neoplasm prostate
R01	Pain respiratory system	S87	Dermatitis/atopic eczema	W18 W19	Post-partum symptom/complaint oth. Breast/lactation symptom/complaint	Y78	Malign neoplasm male genital other
R02 R03	Shortness of breath/dyspnoea Wheezing	S88 S89	Dermatitis contact/allergic Diaper rash	W21	Concern body image in pregnancy	Y79 Y80	Benign/unspec. neoplasm gen. (m) Injury male genital
R04	Breathing problem, other	S 90	Pityriasis rosea	W27 W28	Fear complications of pregnancy Limited function/disability (w)	Y81	Phimosis/redundant prepuce
R05 R06	Cough Nose bleed/epistaxis	S91 S92	Psoriasis Sweat gland disease	W29	Pregnancy symptom/complaint other	Y82 Y83	Hypospadias Undescended testicle
R07	Sneezing/nasal congestion	S93	Sebaceous cyst	W70 W71	Puerperal infection/sepsis	Y84	Congenital genl anomaly (m) other
R08 R09	Nose symptom/complaint other Sinus symptom/complaint	S94	Ingrowing nail	W72	Infection complicating pregnancy Malignant neoplasm relate to preg.	Y85	Benign prostatic hypertrophy
	Throat symptom/complaint	S95 S96	Molluscum contagiosum Acne	W73	Benign/unspec. neoplasm/pregnancy	Y86 Y99	Hydrocoele Genital disease male, other
R21				7777C			
R23	Voice symptom/complaint	S97	Chronic ulcer skin	W75 W76	Injury complicating pregnancy Congenital anomaly complicate preg.		cial Problems Z
R23 R24 R25	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal	S97 S98 S99	Chronic ulcer skin Urticaria Skin disease, other	W76 W78	Congenital anomaly complicate preg. Pregnancy	So ZO1	cial Problems Z Poverty/financial problem
R23 R24 R25 R26	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system	\$98 \$99	Urticaria	W76 W78	Congenital anomaly complicate preg.	So 201 202	Poverty/financial problem Food/water problem
R23 R24 R25 R26 R27 R28	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r)	\$98 \$99 En	Urticaria Skin disease, other docrine/Metabolic	W76 W78 W79 W80 W81	Congenital anomaly complicate preg. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy	Z01 Z02 Z03 Z04	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem
R23 R24 R25 R26 R27 R28 R29	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth.	598 599 En	Urticaria Skin disease, other docrine/Metabolic d Nutritional T	W76 W78 W79 W80 W81 W82	Congenital anomaly complicate preg. Pregnancy Unwanted pregnancy Ectopic pregnancy	Z01 Z02 Z03 Z04 Z05	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem
R23 R24 R25 R26 R27 R28 R29 R71 R72	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat	\$98 \$99 En an T01 T02	Urticaria Skin disease, other docrine/Wetabolic d Nutritional Excessive thirst Excessive appetite	W76 W78 W79 W80 W81 W82 W83 W84	Congenital anomaly complicate preg. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk	Z01 Z02 Z03 Z04 Z05 Z06 Z07	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose	\$98 \$99 En T01 T02 T03	Urticaria Skin disease, other docrine/Metabolic d Nutritional Excessive thirst Excessive appetite Loss of appetite	W76 W78 W79 W80 W81 W82 W83 W84	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem
R23 R24 R25 R26 R27 R28 R29 R71 R72	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat	\$98 \$99 En T01 T02 T03 T04 T05	Urticaria Skin disease, other docrine/Metabolic d Nutritional Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still	Z01 Z02 Z03 Z04 Z05 Z06 Z07	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Legal problem Health care system problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute	\$98 \$99 En T01 T02 T03 T04 T05 T07	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery live	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Health care system problem Compliance/being ill problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Health care system problem Compliance/being ill problem Relationship problem with partner
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95	Congenital anomaly complicate preg. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other	201 202 203 204 205 206 207 208 209 210 211 212 213 214	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Social welfare problem Social welfare problem Legal problem Legal problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Partner illness problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngtits/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis	201 202 203 204 205 206 207 208 209 210 211 212 213 214 215	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Legal problem Legal problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Partner illness problem Loss/death of partner problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T28	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t)	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96	Congenital anomaly complicate preg. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery livebirth Complicate labour/delivery livebirth Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner illness problem Loss/death of partner problem Relationship problem with child Illness problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngtits/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 W99	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Ecomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Eventual mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital K Genital pain female	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Legal problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Partner illness problem Relationship problem with child Illness problem with child Illness problem with child Loss/death of child problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83 R84	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T28 T29 T70	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 W99 Fe	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery tive Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Enditor to the complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z18 Z18 Z18 Z19 Z19 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z16 Z17 Z17 Z17 Z18 Z18 Z19 Z19 Z19 Z19 Z19 Z19 Z19 Z19	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Compliance/being ill problem Relationship problem with partner Partner illness problem Loss/death of partner problem Relationship problem with child Illness problem with child Illness problem with child Loss/death of child problem Relationship prob. parent/family Behaviour problem parent/family
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83 R84 R85 R85	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T28 T29 T70 T71	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Peeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympl/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 W99 Fe	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Englicate labour/delivery still Englicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Englicate labour/delivery st	So 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 218 219 220 221 222	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Legal problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Relationship problem with child Illness problem with child Illness problem with child Loss/death of child problem Relationship problem manual loss/death of child problem Relationship problem parent/family Behaviour problem parent/family Illness problem parent/family
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R79 R80 R81 R82 R83 R84 R85 R86 R87 R86	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngtits/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malimant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory of ther	\$98 \$99 En T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T28 T70 T71 T72 T73 T73	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 W99 Fe:	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery still Uncomplicate labour/delivery still Complicate labour/delivery still Ecomplicate labour/delivery still Complicate labour/delivery still Eventual Experiment of the pregnancy of the complication of pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty	So 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 218 219 220 221 222 223 224	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Compliance/being ill problem Health care system problem Relationship problem with partner Partner illness problem Loss/death of partner problem Relationship problem with child Llness problem with child Loss/death of child problem Relationship problem parent/family Behaviour problem parent/family Llness problem parent/family Llness problem parent/family Llness problem parent/family Llness problem parent/family Loss/death parent/family member Relationship problem friend
R23 R24 R25 R26 R27 R28 R27 R28 R71 R72 R73 R74 R75 R76 R80 R81 R82 R83 R84 R85 R86 R87	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngtifs/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory	\$98 \$99 En 101 102 103 104 105 107 108 110 126 127 128 129 170 171 171 172 173 174 175 176 177 177 177 178	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympl/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab.	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 K95 W96 W99 Fe X01 X02 X03 X04 X05 X06 X07	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Fuerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation irregular/frequent	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z23	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Social welfare problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Partner illness problem Relationship problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Illness problem parent/family Behaviour problem parent/family Relationship problem parent/family Loss/death of pertner problem Relationship problem parent/family Loss/death parent/family member Relationship problem friend Assault/harmful event problem
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R79 R80 R81 R82 R83 R84 R85 R86 R87 R86	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngtits/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malimant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory of ther	\$98 \$99 En an T01 T02 T03 T04 T05 T07 T08 T10 T27 T28 T27 T71 T72 T78 T80 T78 T80 T81 T82	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Reoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity	W76 W78 W80 W81 W82 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 X01 X02 X03 X04 X05 X06 X07 X08	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery tille Uncomplicate labour/delivery still Complicate labour/delivery still Ecomplicate labour/delivery still Complicate labour/delivery still Fomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Fomplicate labour/delivery still Complicate labour/delivery still Fomplicate labour/delivery still Complicate labour/delivery still Fomplicate labour/delivery still Fomplicat	So 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 218 219 220 221 222 223 224	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Legal problem Legal problem Legal problem Relationship problem with partner Partner's behaviour problem Partner illness problem Loss/death of partner problem Relationship problem with child Illness problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Behaviour problem parent/family Illness problem parent/family Behaviour problem parent/family Illness problem parent/family Behaviour problem parent/family Relationship problem prient/family Relationship problem friend Assault/harmful event problem Fear of a social problem
R23 R24 R25 R26 R27 R26 R27 R71 R72 R73 R74 R75 R76 R77 R78 R80 R81 R82 R83 R84 R89 R890 R92 R95	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis	\$98 \$99 En an T01 T02 T03 T04 T05 T07 T08 T10 T111 T26 T27 T71 T72 T73 T78 T80 T81 T82 T83 T83	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympl/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight	W76 W78 W79 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 K95 W96 W99 Fe X01 X02 X03 X04 X05 X06 X07	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Fuerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation irregular/frequent	So 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 218 219 220 221 221 222 223 224 225 227 222 223	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Education problem Education problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Partner illness problem Relationship problem with child Illness problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Illness problem parent/family Loss/death of partner problem Fear of a social problem Fear of a social problem Illnitted function/disability (z) Social problem NOS
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R90	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngtits/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malimant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory Foreign body nose/larynx/bronch Injury respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified	\$98 \$99 En an T01 T02 T03 T04 T05 T07 T08 T10 T27 T28 T27 T71 T72 T78 T80 T78 T80 T81 T82	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Reoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity	W76 W78 W80 W81 W82 W83 W84 W95 W90 W91 X02 W93 W94 X05 X06 X07 X08 X09 X10	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Freast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other Tomplications of puerperium other Disorder pregnancy/delivery Tomplications of p	So 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 218 219 220 221 221 222 223 224 225 227 222 223	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Compliance/being ill problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Loss/death of partner problem Relationship problem with child Llness problem with child Loss/death of child problem Relationship problem parent/family Behaviour problem parent/family Illness problem parent/family Illness problem parent/family Loss/death parent/family member Relationship problem friend Assault/harmful event problem Fear of a social problem Fear of a social problem Illmited function/disability (2)
R23 R24 R25 R26 R27 R28 R29 R711 R78 R78 R77 R78 R81 R82 R86 R87 R88 R89 R90 R92 R95 R96 R97 R97 R98	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Asthma Alllergic rhinitis Hyperventilation syndrome	\$98 \$99 En an T011 T02 T03 T04 T05 T07 T08 T10 T111 T26 T27 T71 T72 T73 T78 T80 T81 T82 T83 T85 T85 T86 T87	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met/sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/thyrotoxicosis Hypothyroidism/myxoedema Hypoglycaemia	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 X01 X02 X03 X04 X05 X06 X07 X08 X09 X10 X11 X12	Concenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty Menstruation excessive Menstruation irregular/frequent Intermenstrual bleeding Premenstrual symptom/complaint Postponement of menstruation Menopausal symptom/complaint Postmenopausal bleeding	\$\begin{array}{c} \text{So} \\ \text{202} \\ \text{203} \\ \text{204} \\ \text{205} \\ \text{206} \\ \text{207} \\ \text{208} \\ \text{209} \\ \text{210} \\ \text{211} \\ \text{215} \\ \text{216} \\ \text{221} \\ \text{222} \\ \text{223} \\ \text{224} \\ \text{225} \\ \text{227} \\ \text{228} \\ \text{229} \\ \text{Ahooff} \end{array}	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Education problem Legal problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Partner illness problem Coss/death of partner problem Relationship problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Behaviour problem parent/family Loss/death parent/family member Relationship problem friend Assault/harmful event problem Fear of a social problem Fear of a social problem Limited function/disability (z) Social problem NOS Dibreviations m anomaly
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R92 R95 R96 R999	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventilation syndrome Respiratory disease other	\$98 \$99 En an T011 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T73 T78 T80 T81 T82 T83 T85 T86	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/myxoedema	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W99 Fe X01 X02 X03 X04 X05 X06 X07 X10 X11 X12 X13	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Formalicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery other Tomplicate labour/delivery other Tomplications of puerperium other Disorder pregnancy/delivery, other Tomplications of puerperium other Tomplications of puerperium other Disorder pregnancy/delivery, other Tomplications of puerperium other Tomplications of puerperium other Disorder pregnancy/delivery, other Tomplications of puerperium ot	\$\begin{array}{c} \text{So} Color of the color of t	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Compliance/being ill problem Relationship problem with partner Partner illness problem Loss/death of partner problem Relationship problem with child Llness problem with child Llness problem with child Loss/death of child problem Relationship problem marent/family Behaviour problem parent/family Illness problem parent/family Illness problem problem prentolem Relationship problem friend Assault/harmful event problem Limited function/disability (z) Social problem NOS Direviations m anomaly av. behaviour
R23 R24 R25 R26 R27 R28 R29 R71 R72 R73 R74 R75 R76 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R92 R95 R96 R999	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Asthma Alllergic rhinitis Hyperventilation syndrome	\$98 \$99 En an T01 T02 T03 T04 T05 T07 T08 T10 T11 T26 T27 T28 T70 T71 T78 T80 T81 T82 T70 T71 T78 T80 T81 T82 T70 T71 T78 T80 T81 T82 T83 T85 T86 T87 T89	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Peeding problem of infant/child Peeding problem of adult Weight gain Weight loss Growth delay Dehydration Pear of cancer of endocrine system Pear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met/sympt/complt other Endocrine infection Malignant neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/thyrotoxicosis Hypothyroidism/myxoedema Hypoglycaemia Diabetes insulin dependent Diabetes non-insulin dependent Vitamin/nutritional deficiency	W76 W78 W80 W81 W82 W83 W84 W95 W90 W91 X02 X03 X04 X05 X06 X07 X08 X07 X11 X112 X13	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other Male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty Menstruation excessive Menstruation irregular/frequent Intermenstrual symptom/complaint Postponement of menstruation Menopausal symptom/complaint Postmenopausal bleeding Posteoital bleeding Vaginal discharge Vaginal symptom/complaint toher	Z01 Z02 Z03 Z04 Z05 Z06 Z09 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Anonbehör	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Education problem Education problem Compliance/being ill problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Partner illness problem Coss/death of partner problem Relationship problem with child Illness problem with child Illness problem parent/family Illness problem parent/family Behaviour problem parent/family Loss/death partner/family member Relationship problem friend Assault/harmful event problem Fear of a social problem Fear of a social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Social problem Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social
R23 R24 R25 R26 R27 R26 R27 R73 R75 R76 R77 R78 R80 R81 R82 R83 R84 R89 R90 R92 R95 R96 R97 R98 R99 R99 R99 R99 R99 R99 R99 R99 R99	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/fracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventilation syndrome Respiratory disease other	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 X01 X02 X03 X04 X05 X07 X08 X09 X10 X11 X12 X13 X14 X15 X16	Concenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery stillbirth Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation excessive Menstruation excessive Menstruation freqular/frequent Intermenstrual bleeding Premenstrual symptom/complaint Postponement of menstruation Menopausal symptom/complaint Postmenopausal bleeding Postcoital bleeding Vaginal discharge Vaginal symptom/complaint other Vulval symptom/complaint female	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Z28 Z29 Anoibeha	Poverty/financial problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Education problem Education problem Compliance/being ill problem Health care system problem Compliance/being ill problem Relationship problem with partner Partner's behaviour problem Partner illness problem Coss/death of partner problem Relationship problem with child Illness problem with child Illness problem parent/family Illness problem parent/family Behaviour problem parent/family Loss/death partner/family member Relationship problem friend Assault/harmful event problem Fear of a social problem Fear of a social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Social problem Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social problem Nos Social problem Nos Social problem Nos Social problem Social problem Limited function/disability (z) Social problem Nos Social
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R23 R24 R25 R26 R27 R28 R29 R71 R78 R79 R80 R81 R82 R89 R90 R92 R95 R96 R97 R98 R99	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngtits/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malimant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventilation syndrome Respiratory disease other PROCESS CODES	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W96 X01 X02 X03 X04 X05 X06 X07 X08 X10 X11 X12 X13 X14 X15 X16 X17 X18 X19 X20	Concenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complicate in pregnancy other Complicate pregnancy/delivery, other Male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation excessive Menstruation excessive Menstruation irregular/frequent Intermenstrual bleeding Premenstrual bleeding Premenstrual bleeding Postcoital bleeding Postcoital bleeding Vaginal discharge Vaginal symptom/complaint other Vulval symptom/complaint female Breast pain female Breast pain female Breast lump/mass female Nipple symptom/complaint female Breast lump/mass female	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Anoi beha bron come come come come come come come come	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Compliance/being ill problem Relationship problem with partner Partner illness problem Loss/death of partner problem Relationship problem with child Llness problem with child Loss/death of child problem Relationship problem menerel/family Behaviour problem parent/family Illness problem parent/family Illness problem parent/family Loss/death of child problem Relationship problem friend Assault/harmful event problem Limited function/disability (z) Social problem NOS Direviations m anomaly av. behaviour nch. bronchus uplicat. complication gen. congenital disease d. evaluation m. examination
R23 R24 R25 R26 R27 R27 R28 R29 R711 R72 R73 R74 R75 R76 R81 R82 R83 R84 R85 R86 R87 R88 R89 R90 R92 R95 R96 R97 R98 R99 I	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsillitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventillation syndrome Respiratory disease other PROCESS CODES	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W80 W81 W82 W83 W84 W90 W91 W92 W93 W94 W95 W96 W95 X00 X01 X02 X03 X04 X05 X06 X11 X12 X13 X14 X15 X16 X17 X18 X19	Conqenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty Menstruation irreqular/frequent Intermenstrual bleeding Premenstrual symptom/complaint Postponement of menstruation Menopausal symptom/complaint Postmenopausal bleeding Postcoital bleeding Vaginal discharge Vaginal symptom/complaint Pelvis symptom/complaint Pelvis symptom/complaint Pelvis symptom/complaint Pelvis symptom/complaint Pelvis symptom/complaint female Breast lump/mass female	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Z28 Z29 AL Anono com conc conc conc conc conc conc c	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Social welfare problem Education problem Social welfare problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Relationship problem with child Illness problem Loss/death of partner problem Relationship problem with child Illness problem with child Loss/death of child problem Relationship problem with child Loss/death of child problem Relationship problem with child Loss/death of child problem Relationship problem parent/family Behaviour problem parent/family Illness problem parent/family Illness problem parent/family Illness problem parent/family Social problem Limited function/disability (2) Social problem NOS Direviations m anomaly av. behaviour nch. bronchus pipicat. complication gen. congenital disease . evaluation m. examination genital malignant
R23 R24 R25 R26 R27 R27 R28 R29 R29 R31 R32 R33 R34 R32 R34 R35 R36 R37 R38 R39 R39 R31	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventilation syndrome Respiratory disease other PROCESS CODES SYMPTOMS/COMPLAINTS NFECTIONS	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 X00 X00 X00 X00 X00 X01 X01 X01 X02 X11 X12 X13 X14 X15 X16 X17 X18 X19 X20 X21 X22 X21	Concenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Puerperal mastitis Breast disorder in pregnancy other Complications of puerperium other Disorder pregnancy/delivery, other Male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty Menstruation excessive Menstruation irregular/frequent Intermenstrual bleeding Premenstrual bleeding Postcoital bleedin	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z23 Z24 Z25 Z27 Z28 Z29 Anono behad bron com	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Education problem Social welfare problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Relationship problem with child Illness problem with child Illness problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Illness problem parent/family Loss/death of child problem Relationship problem prend Relationship problem friend Assault/harmful event problem Fear of a social problem Fear of a social problem Limited function/disability (2) Social problem NOS Direviations m anomaly av behaviour nch. bronchus plicat. complication gen. congenital disease L evaluation m. examination genital m. metabolic musculoskeletal
R23 R24 R25 R26 R27 R28 R29 R711 R82 R29 R31 R34 R35 R36 R37 R37 R38 R37 R38 R39	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Simusitis acute/chronic Tonsillitis acute Laryngitis/tracheitis acute Acute bronchitis/bronchiolitis Chronic bronchiis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventillation syndrome Respiratory disease other PROCESS CODES SYMPTOMS/COMPLAINTS NFECTIONS NEOPLASMS	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W80 W81 W82 W83 W84 W85 W90 W91 W92 W93 W94 W95 W99 X01 X02 X03 X04 X05 X06 X07 X10 X11 X12 X13 X14 X15 X16 X17 X18 X19 X20 X21 X21 X22 X23 X24	Concenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Enemplications of puerperium other Disorder pregnancy/delivery, other male Genital X Genital pain female Menstrual pain Intermenstrual pain Painful intercourse female Menstruation absent/scanty Menstruation irreqular/frequent Intermenstrual bleeding Premenstrual symptom/complaint Postponement of menstruation Menopausal symptom/complaint Postcoital bleeding Postcoital bleeding Postcoital bleeding Vaginal discharge Vaginal symptom/complaint other Vulval symptom/complaint female Breast pain female Breast pain female Breast pinp/mass female Nipple symptom/complaint female Breast symptom/complaint female Breast symptom/complaint female Breast symptom/complaint female Fear sexually transmitted disease (f) Fear of sexual dysfunction female Fear of genital cancer female	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Anon compodis. eval. matin meter	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Unemployment problem Education problem Social welfare problem Education problem Social welfare problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Relationship problem with child Illness problem Loss/death of partner problem Relationship problem with child Illness problem with child Illness problem with child Loss/death of child problem Relationship problem with child Loss/death of partner problem Relationship problem with child Loss/death of partner problem Relationship problem with child Loss/death of partner problem Relationship problem friend Assault/harmful event problem Fear of a social problem Limited function/disability (2) Social problem NOS Direviations m anomaly av. behaviour nch. bronchus pilicat. complication gen. congenital disease Levaluation m. examination genital malignant ab. metabolic culo. musculoskeletal not elsewhere classified
R23 R24 R25 R26 R27 R27 R28 R29 R71 R72 R73 R74 R75 R76 R77 R78 R79 R80 R81 R82 R83 R84 R85 R86 R87 R98 R99 R91 R91 R92 R95	Voice symptom/complaint Haemoptysis Sputum/phlegm abnormal Fear of cancer respiratory system Fear of respiratory disease, other Limited function/disability (r) Respiratory symptom/complaint oth. Whooping cough Strep throat Boil/abscess nose Upper respiratory infection acute Sinusitis acute/chronic Tonsilitis acute Laryngtist/racheitis acute Acute bronchitis/bronchiolitis Chronic bronchitis Influenza Pneumonia Pleurisy/pleural effusion Respiratory infection other Malignant neoplasm bronchus/lung Malinant neoplasm respiratory, other Benign neoplasm respiratory Foreign body nose/larynx/bronch Injury respiratory other Congenital anomaly respiratory Hypertrophy tonsils/adenoids Neoplasm respiratory unspecified Chronic obstructive pulmonary dis Asthma Allergic rhinitis Hyperventilation syndrome Respiratory disease other PROCESS CODES SYMPTOMS/COMPLAINTS NFECTIONS NFECTIONS NIURIES CONGENITAL ANOMALIES	\$98 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99 \$99	Urticaria Skin disease, other docrine/Metabolic d Nutritional T Excessive thirst Excessive appetite Loss of appetite Feeding problem of infant/child Feeding problem of adult Weight gain Weight loss Growth delay Dehydration Fear of cancer of endocrine system Fear endocrine/metabolic dis other Limited function/disability (t) Endocrine/met./sympt/complt other Endocrine infection Malignant neoplasm thyroid Benign neoplasm thyroid Neoplasm endocrine oth/unspecified Thyroglossal duct/cyst Congenital anom endocrine/metab. Goitre Obesity Overweight Hyperthyroidism/thyrotoxicosis Hypothyroidism/fnyxoedema Hypoglycaemia Diabetes insulin dependent Vitamin/nutritional deficiency Gout Lipid disorder	W76 W78 W79 W80 W81 W82 W83 W84 W95 W90 W91 W92 X01 X02 X03 X04 X05 X06 X07 X08 X10 X11 X12 X13 X14 X15 X16 X17 X18 X19 X20 X21 X22 X23	Congenital anomaly complicate preq. Pregnancy Unwanted pregnancy Ectopic pregnancy Toxaemia of pregnancy Abortion spontaneous Abortion induced Pregnancy high risk Gestational diabetes Uncomplicate labour/delivery live Uncomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Tomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Tomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Tomplicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Complicate labour/delivery still Tomplicate labour/delivery live	Z01 Z02 Z03 Z04 Z05 Z06 Z07 Z08 Z09 Z10 Z11 Z11 Z12 Z13 Z14 Z15 Z16 Z18 Z19 Z20 Z21 Z22 Z23 Z24 Z25 Z27 Anou behad bron component compon	Poverty/financial problem Food/water problem Food/water problem Housing/neighbourhood problem Social cultural problem Work problem Unemployment problem Education problem Education problem Social welfare problem Legal problem Legal problem Health care system problem Relationship problem with partner Partner's behaviour problem Relationship problem with child Illness problem with child Illness problem with child Illness problem parent/family Behaviour problem parent/family Illness problem parent/family Illness problem parent/family Illness problem parent/family Loss/death of child problem Relationship problem parent/family Illness problem parent/family Illness problem parent/family Loss/death parent/family member Relationship problem friend Assault/harmful event problem Fear of a social problem Limited function/disability (2) Social problem NOS Direviations m anomaly av behaviour nch. bronchus pilicat. complication gen. congenital disease L evaluation m examination genital m metabolic musculoskeletal not elsewhere classified not otherwise specified itt. nutrition
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