Supplementary material

Supplementary methods

1 TriNetX network

This section provides an expanded version of our previous description of the network¹.

Legal and ethical status

TriNetX's Analytics network is compliant with the Health Insurance Portability and Accountability Act (HIPAA), the US federal law which protects the privacy and security of healthcare data. TriNetX is certified to the ISO 27001:2013 standard and maintains an Information Security Management System (ISMS) to ensure the protection of the healthcare data it has access to and to meet the requirements of the HIPAA Security Rule. Any data displayed on the TriNetX Platform in aggregate form, or any patient level data provided in a data set generated by the TriNetX Platform, only contains de-identified data as per the de-identification standard defined in Section §164.514(a) of the HIPAA Privacy Rule. The process by which the data is de-identified is attested to through a formal determination by a qualified expert as defined in Section §164.514(b)(1) of the HIPAA Privacy Rule. This formal determination by a qualified expert, refreshed in December 2020, supersedes the need for TriNetX's previous waiver from the Western Institutional Review Board (IRB). The network contains data that are provided by participating Health Care Organizations (HCOs), each of which represents and warrants that it has all necessary rights, consents, approvals and authority to provide the data to TriNetX under a Business Associate Agreement (BAA), so long as their name remains anonymous as a data source and their data are utilized for research purposes. The data shared through the TriNetX Platform are attenuated to ensure that they do not include sufficient information to facilitate the determination of which HCO contributed which specific information about a patient.

Acquisition of data, quality control, and other procedures

The data are stored onboard a TriNetX appliance – a physical server residing at the institution's data centre or a virtual hosted appliance. The TriNetX platform is a fleet of these appliances connected into a federated network able to broadcast queries to each appliance. Results are subsequently collected and aggregated.

Once the data are sent to the network, they are mapped to a standard and controlled set of clinical terminologies and undergo a data quality assessment including 'data cleaning' that rejects records which do not meet the TriNetX quality standards. HIPAA compliance of the clinical patient data is achieved using de-identification. Different data modalities are available in the network. They include demographics (coded to HL7 version 3 administrative standards), diagnoses (represented by ICD-10-CM codes), procedures (coded in ICD-10-PCS or CPT), measurements (coded to LOINC), and medications (coded with the VA Formulary). While extensive information is provided about patients' diagnoses and procedures, other variables (such as socioeconomic and lifetime factors are not comprehensively represented).

The data from a typical HCO generally go back around 7 years, with some going back 13 years. The data are continuously updated. HCOs update their data at various times, with most refreshing every 1, 2, or 4 weeks.

The data come primarily (>93% of patients) from HCOs in the USA, with the remainder coming from India, Australia, Malaysia, Taiwan, Spain, UK, and Bulgaria. As noted above, to comply with legal frameworks and ethical guidelines guarding against data re-identification, the identity of participating HCOs and their individual contribution to each dataset are not disclosed to researchers.

Data quality assessment followed a standardised strategy wherein the data are reviewed for conformance (adherence to specified standards and formats), completeness (quantifying data presence or absence) and plausibility (believability of the data from a clinical perspective). There are pre-defined metrics for each of the above assessment categories. Results for these metrics are visualised and reviewed for each new site that joins the network as well as on an ongoing basis. Any identified issue is communicated to the data provider and resolved before continuing data collection.

The basic formatting of contributed data is also checked (e.g. to ensure that dates are properly represented). Records are checked against a list of required fields (e.g., patient identifier) and rejects those records for which the required information is missing. Referential integrity checking is done to ensure that data spanning multiple database tables can be successfully joined together. As the data are refreshed, changes in volume of data over time is monitored to ensure data validity. At least one non-demographic fact for each patient is required for them to be counted in the dataset. Patient records with only demographics information are discarded.

The software also undergoes quality control. The engineers testing the software are independent from the engineers developing it. Each test code is checked by two independent testing engineers. Each piece of software is tested extensively against a range of synthetic data (i.e. generated for the purpose of testing) for which the expected output is established independently. If the software fails to return this output, then the software is deemed to have failed the test and is examined and modified accordingly. For statistical software (including that used for propensity score matching, for Kaplan-Meier analysis, etc.), an additional quality control step is implemented. Two independent codes are written in two different programming languages (typically R and python) and the statistical results are compared. If discrepancies are identified, then the codes are deemed to have failed the test and are examined and modified accordingly. All the code is reviewed independently by another engineer.

The test strategy follows three levels of granularity:

- 1. Unit tests: These test specific blocks, or units, of code that perform specific actions (e.g. querying the database).
- 2. Integration tests: These ensure that different components are working together correctly.
- 3. End-to-end tests: These tests run the entire system and check the final output.

Some comments on advantages and disadvantages of EHR data

The advantage of EHR data, like those in TriNetX, over insurance claim data is that both insured and uninsured patients are included. An advantage of EHR data over survey data is that they represent the diagnostic rates in the population presenting to healthcare facilities. This provides an accurate account of the burden of specific diagnoses on healthcare systems. The downside of relying on diagnoses is that they obviously do not account for undiagnosed patients who might be suffering from the illness but did not seek medical attention (or in whom the diagnosis was missed). A general limitation of EHR data is that a patient may be seen in different HCOs for different parts of their care and if one HCO is not part of the federated network then part of their medical records may not be available. Using a network of HCOs (rather than a single HCO) limits this possibility but does not fully remove it. Finally, historical data before the start of EHRs (or the addition of an HCO to the network) may be incomplete.

2 Cohorts definition

2.1 Assessing the relative incidence of eating disorder during the pandemic vs. before

To assess the relative incidence of eating disorders during the pandemic compared to previous years, 4 cohorts were defined: one cohort of interest and 3 comparison cohorts.

The cohort of interest consisted of all patients who met all the following criteria:

- 1. Patients made at least one healthcare visit between January 20, 2020 and January 19, 2021 (the start date was used as this was the date of the first case of COVID-19 recorded in the USA)
- 2. Patients were 30 years old or younger at the time of the visit. If multiple visits were made, the age at the first visit was used to include/exclude patients.
- 3. Patients made at least one healthcare visit before January 20, 2020 (to ensure that baseline information was available for each patient).
- 4. Patients did not have an eating disorder recorded in their health record on or before January 19, 2020.

The comparison cohorts were defined using the same criteria above shifted by 1, 2, and 3 years. For instance, the cohort which we refer to as the '2019 cohort', used for the primary analysis, include all patients who met each of the following criteria:

1. Patients made at least one healthcare visit between January 20, 2019 and January 19, 2020

- 2. Patients were 30 years old or younger at the time of the visit. If multiple visits were made, the age at the first visit was used to include/exclude patients.
- 3. Patients made at least one healthcare visit before January 20, 2019 (to ensure that baseline information was available for each patient).
- 4. Patients did not have an eating disorder recorded in their health record on or before January 19, 2019.

The same approach was taken for the 2017 and 2018 cohorts, used in the sensitivity analysis.

The three cohorts cannot be merged as a single comparison cohort because patients may be part of several of them.

2.2 Assessing the relative risk of eating disorder among patients diagnosed with COVID-19 vs. not

To assess whether patients diagnosed with COVID-19 were at an increased risk of being subsequently diagnosed with an eating disorder, we defined and compared two cohorts.

The first cohort was defined as all patients who met each of the following criteria:

- 1. Patients had a confirmed diagnosis of COVID-19 (ICD-10 code U07.1) or a positive PCR test for SARS-CoV-2 between January 20, 2020 and November 19, 2021. The choice of the end date (10 months rather than 12 months after the beginning of the time window) guarantees that even the patients diagnosed at the later stages of that window, will have had the opportunity for sufficient follow-up at the time of the analysis (April 28, 2021).
- 2. Patients were 30 years old or younger at the time of diagnosis.
- 3. Patients had not died at the time of the analysis (April 28, 2021)

The comparison cohort was defined as all patients who met each of the following criteria:

- 1. Patients had made a healthcare visit between January 20, 2020 and November 19, 2021.
- 2. Patients were 30 years old or younger at the time of the visit.
- 3. Patients had not died at the time of the analysis (April 28, 2021).
- 4. Patients had not had a confirmed diagnosis of COVID-19 (ICD-19 code U07.1) nor a positive PCR test for SARS-CoV-2 between January 20, 2020 and the time of the analysis (April 28, 2021).

A positive PCR test for SARS-CoV-2 was defined as a positive entry for any of the following tests:

- Positive SARS-CoV-2 RNA in Respiratory specimen
- Positive SARS-CoV-2 RNA in Unspecified specimen
- Positive SARS-CoV-2 N gene in Respiratory specimen
- Positive SARS-CoV-2 N gene in Unspecified specimen
- Positive SARS-CoV-2 RdRp gene in Respiratory specimen
- Positive SARS-CoV-2 E gene in Respiratory specimen
- Positive SARS-CoV-2 E gene in Unspecified specimen
- Positive SARS-CoV-2 RNA panel in Respiratory specimen
- Positive SARS-CoV-2 RNA panel in Unspecified specimen
- Positive SARS-CoV-2 RNA in Nasopharynx
- Positive SARS coronavirus 2 and related RNA
- Positive SARS-related coronavirus RNA in Respiratory specimen
- Positive SARS coronavirus 2 ORF1ab in Respiratory specimen

Because these two cohorts likely differ significantly on many characteristics at baseline due to differential risks for COVID-19, they were matched for risk factors of COVID-19 and for more severe COVID-19 illness (see eMethods 3 for the covariates used in matching and eMethods 5.2 for the statistical analysis). In addition, because the rate of healthcare visits and diagnoses have varied during the pandemic, the two cohorts were stratified by the time of the visits in five 2-monthly periods: January 20 – March 19, 2020, March 20 – May 19, 2020, May 20 – July 19, 2020, July 20 – September 19, 2020, and September 20 – November 19, 2020. Matching for baseline characteristics was achieved separately in each stratum.

The index event from which follow-up started was the first time a diagnosis of COVID-19 was recorded (for the first cohort) or the first visit to a healthcare organization (for the second cohort) within the corresponding time window.

2.3 Assessing the outcomes of patients diagnosed with an eating disorder during vs. before the pandemic

To assess the outcomes of patients diagnosed with an eating disorder during vs. before the pandemic, the following two cohorts were defined.

The cohort of interest was defined as all patients who met all the following criteria:

- 1. Patients had a recorded diagnosis of an eating disorder (ICD-10 code F50) between January 20, 2020 and January 19, 2021.
- 2. Patients were 30 years old or younger at the time of the diagnosis.
- 3. Patients made at least one visit to a healthcare organization on or before January 19, 2020 (to guarantee that baseline information was available for each patient).
- 4. Patients did not have a diagnosis of an eating disorder on or before January 19, 2020.

The control cohort was defined as all patients who met all the following criteria:

- 1. Patients had a recorded diagnosis of an eating disorder (ICD-10 code F50) between January 20, 2017 and January 19, 2020.
- 2. Patients were 30 years old or younger at the time of the diagnosis.
- 3. Patients made at least one visit to a healthcare organization on or before January 19, 2017 (to guarantee that baseline information was available before the study window).
- 4. Patients did not have a diagnosis of an eating disorder on or before January 19, 2017.

The index event from which follow-up started was the first recorded diagnosis of an eating disorder within the corresponding time window.

3 Definition of covariates

When comparing the cohort of patients diagnosed with COVID-19 to the cohort who were not, significant differences in baseline characteristics can be expected between the cohorts as a result of differential risks for COVID-19. To reduce the effect of confounding on associations between a diagnosis of COVID-19 and a subsequent diagnosis of eating disorder, cohorts were thus matched for established or suspected risk factors for COVID-19²⁻⁶ and for established risk factors for COVID-19 death⁷ (taken to be risk factors of a more severe COVID-19 illness). All the covariates used in our previous EHR-based studies of associations between psychiatric disorders and COVID-19^{1,7} were included insofar as they were observed in at least 0.1% of the control cohort. In addition, previous use of antimicrobials were also included as it has been thought to be potentially associated with eating disorders⁸ and might also capture risk factors for infection. Specifically, the following covariates were included (with ICD-19/CDC/VA Formulary codes in brackets):

- 1) Age at the time of diagnosis
- 2) Sex coded as female, male, or other
- Race encoded as 6 separate dichotomous variables: White (2106-3), Black or African American (2054-5), American Indian or Alaska Native (1002-5), Asian (2028-9), Native Hawaiian or Other Pacific Islander (2076-8), or Unknown Race (2131-1)
- 4) Ethnicity encoded as Hispanic or Latino (2135-2), Not Hispanic or Latino (2186-5), or Unknown Ethnicity
- 5) Problems related to housing and economic circumstances encoded as the corresponding ICD-10 code (Z59)
- 6) Weight and BMI encoded as one dichotomous variable and one categorical variable: Overweight and obesity (E66) and body mass index (categorised into < 17 kg/m², 17-18.5 kg/m², 18.5-25 kg/m², 25-30 kg/m², and ≥ 30 kg/m²)
- 7) Hypertensive diseases encoded as the corresponding ICD-10 code (I10-I16)
- 8) Diabetes mellitus encoded as 2 dichotomous variables: Type 1 diabetes mellitus (E10) and Type 2 diabetes mellitus (E11)
- 9) Bronchitis encoded as a dichotomous variable: Bronchitis, not specified as acute or chronic (J40)
- 10) Asthma encoded as the corresponding ICD-10 diagnosis (J45)
- 11) Nicotine dependence encoded as the corresponding ICD-10 diagnosis (F17.2)
- 12) Substance use disorders encoded as the ICD-10 code for mental and behavioural disorders due to psychoactive substance use (F10-F19)

- 13) Psychotic disorders encoded as the ICD-10 code for schizophrenia, schizotypal, delusional, and other non-mood psychotic disorders (F20-F29)
- 14) Mood disorders encoded as the corresponding ICD-10 code (F30-F39)
- 15) Anxiety disorders encoded as the ICD-10 code for anxiety, dissociative, stress-related, somatoform and other nonpsychotic mental disorders (F40-F48)
- 16) Heart diseases encoded as 1 categorical variable: Other forms of heart disease (I30-I52)
- 17) Chronic kidney disease encoded as the corresponding ICD-10 code (N18)
- 18) Fatty liver disease encoded as the categorical variables: Fatty liver, not elsewhere classified (K76.0)
- 19) Neoplasm and haematological cancer in particular encoded as 2 dichotomous variables: Neoplasms (C00-D49) and Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)
- 20) Lupus encoded as the corresponding ICD-10 code (M32)
- 21) Psoriasis encoded as the corresponding ICD-10 code (L40)
- 22) Certain disorders involving the immune mechanism encoded as the corresponding ICD-10 code (D80-D89)
- 23) Previous use of antimicrobial agents encoded as a dichotomous variable: Antimicrobials (VA Formulary code AM000)

Each individual code was considered a confounding factor in and of itself so that matching was achieved for each of them individually. For variables representing diagnoses and socioeconomic deprivation, an individual was considered positive if the ICD-10 code was recorded at least once in their health record before the index event. For BMI measurements, all available measurements for all individuals were used and propensity score matching sought to define cohorts with similar numbers of measurements falling into each category.

When comparing the outcomes of patients with an eating disorder diagnosed during vs. before January 20, 2020, there is no a priori reason to believe that the cohorts would differ significantly at baseline. We calculated the standardized mean difference (SMD) in age and sex between the two cohorts defined in eMethods 2.3. If cohorts were already well matched (SMD \leq 0.1) on these characteristics, then no further matching was applied. If they were not well matched for these characteristics, then propensity score matching was applied.

4 Definitions of outcomes

For the analysis of outcomes of patients diagnosed with an eating disorder during vs. before the COVID-19 pandemic, the primary outcome was a composite endpoint of any of the following events within 6 months of the index event:

- Death
- Suicide attempt (ICD-10 code T14.91)
- Suicidal ideations (ICD-10 code R45.851)

Each individual event was also analysed independently as secondary outcomes.

5 Details on statistical analyses

Unless otherwise stated, statistical analyses were conducted in R version 3.6.3. Statistical significance was set at two-sided P-values < .05.

5.1 Assessing the relative incidence of eating disorder during the pandemic vs. before

For the cohorts defined in eMethods 2.1, the incidence of an eating disorder (ICD-10 code F50) within a given time window was defined as a ratio (N/D). The denominator (D) was the number of patients from the cohort who met both the following criteria:

- their fact record (i.e. the period that starts with their earliest observation and ends with the most recent one) overlaps the time window by at least one day,
- their fact record does not include a diagnosis of eating disorders at any point before the time window.

The numerator (N) was the number of patients from the cohort who met the criteria for the denominator and whose fact record includes a diagnosis of eating disorders on a date within the time window.

The incidence was calculated for the whole study window (January 20, 2020 to January, 19, 2021 for the cohort of interest, and January 20, 2019 to January 19, 2020 for the control cohort) as well as for every 2-month period within this time window.

The relative risk of an eating disorder being diagnosed during the COVID-19 pandemic (January 20, 2020 to January 19, 2021) vs. during the year before (January 20, 2019 to January 19, 2020) was calculated as the ratio of the corresponding incidences. The null hypothesis that the relative risk equals 1 was tested using a χ^2 test. Both the relative risk (RR) and the excess incidence (RR-1).

The analysis was repeated after stratifying cohorts by sex and age (in 5 categories: 0-9 years old, 10-14 years old, 15-19 years old, 20-24 years old, and 25-30 years old), and for specific subcategories of eating disorders: anorexia nervosa (ICD-10 code F50.0), bulimia nervosa (F50.2) and eating disorders not otherwise specified (F50.8 or F50.9).

5.2 Assessing the relative risk of eating disorder among patients diagnosed with COVID-19 vs. not

To assess the risk of being diagnosed with an eating disorder among patients diagnosed with COVID-19 vs. those making a visit to a healthcare organization for another reason, the cohorts defined in eMethods 2.2 (stratified by timing of the COVID-19 diagnosis/healthcare visit as explained above) were matched for the covariates defined in eMethods 3 using propensity score matching.

Propensity score matching was carried out within the TriNetX network. Propensity score 1:1 matching used a greedy nearest neighbour matching approach with a caliper distance of 0.1 pooled standard deviations of the logit of the propensity score. Any characteristic with a standardized mean difference (SMD) between cohorts lower than 0.1 was considered well matched. In the matching process, the propensity score was calculated using a logistic regression (implemented by the function LogisticRegression of the scikit-learn package in Python 3.7) including each of the covariates mentioned above. To eliminate the influence of ordering of records, the order of the records in the covariate matrix were randomised before matching.

Kaplan-Meier analysis was used to estimate the risk of a first diagnosis of an eating disorder (i.e. excluding those who had a diagnosis before the follow-up window) within 6 months of either a diagnosis of COVID-19 or another healthcare visit. Cox proportional hazard model was used to calculate the hazard ratio and its confidence interval. The null hypothesis that the hazard ratio was equal to 1 was tested using a log-rank test.

5.3 Assessing the outcomes of patients diagnosed with an eating disorder during vs. before the pandemic

To assess the outcomes of patients diagnosed with an eating disorder during vs. in the year before the COVID-19 pandemic, Kaplan-Meier analysis was applied to the cohorts defined in eMethods 2.3 with the outcomes defined in eMethods 4. The Cox proportional hazard model was used to calculate the hazard ratio and its confidence interval. The null hypothesis that the hazard ratio was equal to 1 was tested using a log-rank test.

6 Details on the sensitivity analysis

In the primary analysis of the incidence of eating disorders, patients who did make further visits to a healthcare organization were assumed not to have an eating disorder. But it might be that they were lost to follow-up (e.g. because they moved to another area and started receiving their care from another healthcare organization that is not part of the network). In the primary analysis, we mitigated that risk by only including patients who made at least one visit during the study window. However, it might be that they were lost to follow-up after that visit.

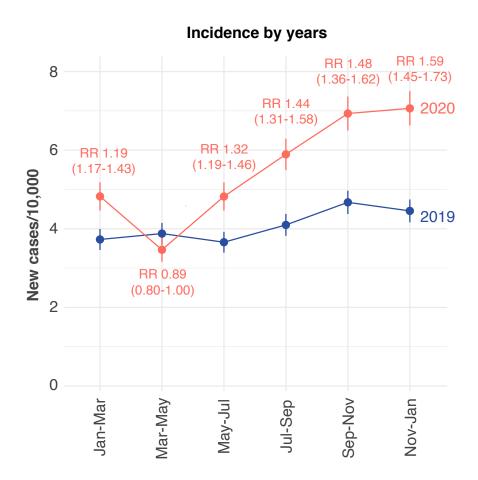
To assess whether differences in incidences of eating disorders during vs. before the COVID-19 could be explained by differences in patients lost to follow-up, a sensitivity analysis was conducted. In this sensitivity analysis, patients were only included if they not only made a healthcare visit during the follow-up window (as is the case in the primary analysis), but also made at least one healthcare visit in the months after the follow-up window (between January 20, 2021 and April 28, 2021 for the cohort of interest, or between January 20, 2020 and April 28, 2020 for the control cohort). This guarantees that they continued to visit healthcare organizations within the network after the study window so that the absence of further visits during the follow-up window more likely reflects the absence of a diagnosis. This is useful to confirm the relative risk of eating disorders during vs. before the pandemic. However, because these patients are by definition making more frequent visits

to healthcare organizations, they might be less representative of the general population and this is why we only report relative risks whereas the primary analysis is used to report incidences.

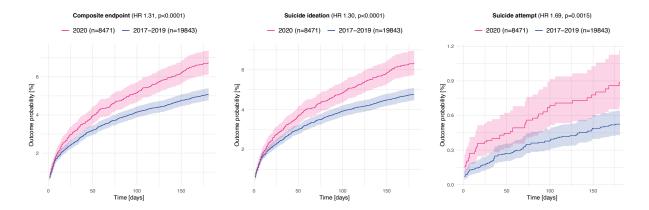
References

- 1. Taquet M, Geddes JR, Husain M, Luciano S, Harrison PJ. 6-month neurological and psychiatric outcomes in 236 379 survivors of COVID-19: a retrospective cohort study using electronic health records. *Lancet Psychiatry*.2021;**8**:416-27.
- de Lusignan S, Dorward J, Correa A, et al. Risk factors for SARS-CoV-2 among patients in the Oxford Royal College of General Practitioners Research and Surveillance Centre primary care network: a cross-sectional study. *Lancet Infect Dis*. Published online May 15, 2020. doi:10.1016/S1473-3099(20)30371-6
- 3. Zhang J-J, Dong X, Cao Y-Y, et al. Clinical characteristics of 140 patients infected with SARS-CoV-2 in Wuhan, China. *Allergy*. Published online 2020. https://onlinelibrary.wiley.com/doi/abs/10.1111/all.14238
- 4. Chen N, Zhou M, Dong X, et al. Epidemiological and clinical characteristics of 99 cases of 2019 novel coronavirus pneumonia in Wuhan, China: a descriptive study. *Lancet*. 2020;395(10223):507-513.
- Wang QQ, Kaelber DC, Xu R, Volkow ND. Correction: COVID-19 risk and outcomes in patients with substance use disorders: analyses from electronic health records in the United States. *Mol Psychiatry*. Published online September 30, 2020. doi:10.1038/s41380-020-00895-0
- 6. Williamson EJ, Walker AJ, Bhaskaran K, et al. OpenSAFELY: factors associated with COVID-19 death in 17 million patients. *Nature* 2020;584:430-6. doi:10.1038/s41586-020-2521-4
- Taquet M, Luciano S, Geddes JR, Harrison PJ. Bidirectional associations between COVID-19 and psychiatric disorder: retrospective cohort studies of 62 354 COVID-19 cases in the USA. *Lancet Psychiatry* 2021;8:130-40. doi:10.1016/S2215-0366(20)30462-4
- Breithaupt L, Köhler-Forsberg O, Larsen JT, et al. Association of Exposure to Infections in Childhood With Risk of Eating Disorders in Adolescent Girls. *JAMA Psychiatry*. 2019;76(8):800. doi:10.1001/jamapsychiatry.2019.0297
- 9. Haukoos JS, Lewis RJ. The propensity score. JAMA. 2015;314(15):1637-1638.

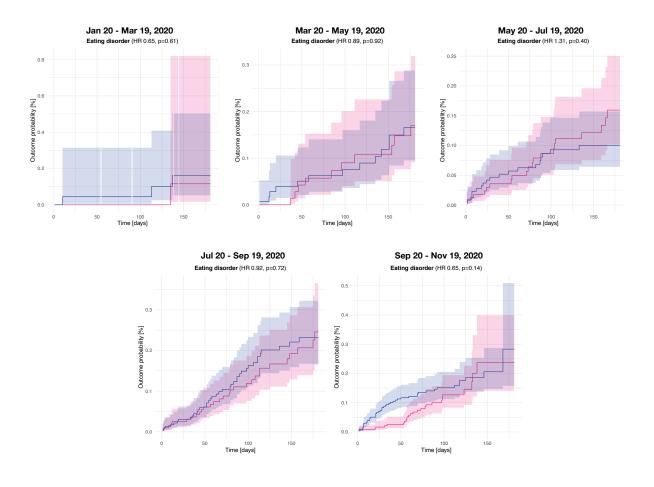
Supplementary figure



Supplementary Figure 1: Incidence of eating disorders in 2-monthly periods during the pandemic (January 20, 2020 to January 19, 2021) compared to the previous year (January 20, 2019 to January 19, 2020) when the cohort is restricted to those patients who also made a visit to a healthcare organization between January 20, 2021 and April 28, 2021 (or the same period in 2020 for comparison) thus guaranteeing that they were not lost to follow up. The relative risks (RR) and their 95% confidence intervals are provided for each 2-monthly period during the pandemic compared to the same period the previous year.



Supplementary Figure 2: Kaplan-Meier curves for the outcomes of patients diagnosed with an eating disorder during the pandemic (pink curves) compared to the three years before (blue curves). Curves are shown for the composite endpoint of suicide ideation, suicide attempt or death (left), as well as for suicide ideation (centre) and suicide attempt (right) separately. The curves for death are not shown because the rarity of the event meant that fewer than 10 events occurred in the 2020 cohort and the exact number of such rare events is not directly returned by TriNetX to protect patient's confidentiality.



Supplementary Figure 3: Kaplan-Meier curves for incidence of eating disorders in the 6 months after a diagnosis of COVID (pink curve) compared to a matched control cohort making a healthcare visit for another reason (blue curve). The analysis was stratified by the timing of the diagnosis/visit in five 2-months periods.

Supplementary Tables

Supplementary Table 1

Demographics, diagnostic subcategory, and outcomes of patients diagnosed with an eating disorder between January 20, 2020 and January 19, 2021, compared to patients diagnosed with an eating disorder in the previous three years. SMD=Standardized mean difference. EDNOS=Eating disorder not otherwise specified (ICD-10 codes F50.8 or F50.9).

	Patients diagnosed between	Patients diagnosed between	
	Jan 20, 2020 and Jan 19, 2021	Jan 20, 2017 and Jan 19, 2020	
Demographics			SMD
Sample size, n	8471	19843	-
Age, mean [SD], y	16.25 (7.19)	16.34 (7.60)	0.013
Sex, n (%)			
Female	6613 (78.07)	14954 (75.36)	0.064
Male	1855 (21.90)	4885 (24.62)	0.064
Other	3 (0.04)	4 (0.02)	0.0091
Diagnostic subcategory, n (%)			SMD
Anorexia nervosa	1334 (15.75)	2500 (12.60)	0.09
Bulimia nervosa	628 (7.41)	1638 (8.26)	0.031
EDNOS	6509 (76.84)	15705 (79.15)	0.056
Outcomes	% at 6 months (95% CI)	% at 6 months (95% CI)	HR (95% CI), P
Suicide attempt, ideation, or death	6.73 (6.13-7.39)	5.07 (4.76-5.40)	1.31 (1.17-1.47), P<.001
Suicide ideation	6.33 (5.74-6.97)	4.76 (4.46-5.08)	1.30 (1.16-1.47), P<.001
Suicide attempt	0.89 (0.68-1.16)	0.52 (0.43-0.64)	1.69 (1.21-2.35), P=0.0015
Death	0.047 (0.015-0.15)	0.096 (0.06-0.15)	0.48 (0.14-1.63), P=0.33

Supplementary Table 2: Relative risks (RR) and p-value (from χ^2 tests) comparing the incidence of eating disorders between the pandemic (January 20, 2020 to January 19, 2021) and each of the previous three years for the overall cohort as well as for each sex and age category, and for subcategories of eating disorders.

	2019	2019		2018		
	RR	p	RR	p	RR	p
Overall	1.15 (1.12 - 1.19)	< 0.0001	1.18 (1.15 - 1.22)	< 0.0001	1.22 (1.18 - 1.26)	< 0.0001
Female	1.20 (1.16 - 1.24)	< 0.0001	1.21 (1.17 - 1.26)	< 0.0001	1.26 (1.22 - 1.31)	< 0.0001
Male	1.00 (0.94 - 1.06)	1	1.08 (1.02 - 1.16)	0.013	1.06 (0.99 - 1.13)	0.1
0-9y	1.02 (0.95 - 1.09)	0.63	0.99 (0.92 - 1.06)	0.71	1.06 (0.98 - 1.13)	0.14
10-14y	1.24 (1.16 - 1.32)	< 0.0001	1.33 (1.24 - 1.42)	< 0.0001	1.37 (1.28 - 1.47)	< 0.0001
15-19y	1.21 (1.15 - 1.28)	< 0.0001	1.31 (1.23 - 1.38)	< 0.0001	1.35 (1.27 - 1.43)	< 0.0001
20-24y	1.10 (1.02 - 1.18)	0.014	1.11 (1.03 - 1.20)	0.0072	1.11 (1.03 - 1.20)	0.0091
25-30	1.09 (1.01 - 1.17)	0.035	1.05 (0.97 - 1.13)	0.25	1.02 (0.95 - 1.11)	0.55
AN	1.32 (1.24 - 1.41)	< 0.0001	1.36 (1.27 - 1.45)	< 0.0001	1.59 (1.48 - 1.71)	< 0.0001
BN	1.13 (1.03 - 1.24)	0.0081	1.03 (0.94 - 1.12)	0.58	1.10 (1.01 - 1.21)	0.039
EDNOS	1.13 (1.09 - 1.17)	< 0.0001	1.16 (1.12 - 1.20)	< 0.0001	1.19 (1.15 - 1.23)	< 0.0001

Supplementary Table 3: Baseline characteristics of the matched cohorts of patients who were diagnosed with COVID-19 or made a visit to a healthcare organisation for another reason between January 20, 2020, and March 19, 2020. To de-confound the effect of the timing of diagnosis/healthcare visit on subsequent diagnosis of eating disorder, matching was stratified by the time of diagnosis into 2-month strata, and propensity score matching was applied separately in each stratum. To avoid the possibility of patient identification, when a baseline characteristic is present in less than 10 patients, TriNetX returns 10 as a number. This only affected this 2-month period and not the other 4 (Supplementary Tables 4-7) which are all larger. SMD=Standardised mean difference

Number 3215 3215 - Demographies Age: men (SD); y 18.8 (7.8) 18.8 (7.9) 0.002 Sex; n (%)		COVID-19	Visit	SMD	
Age, mean (SD); y 18.8 (7.8) 18.8 (7.9) 0.002 Sex; n (%) Female 1688 (52.5) 1685 (52.4) 0.002 Male 1525 (47.4) 1527 (47.5) 0.001 Other 10 (0.3) 10 (0.3) 0 Race; n (%) V V V 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) 11 (10.3) 10 (0.3) 0 Unknown 193 (6.0) 210 (6.5) 0.002 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0	Number	3215	3215	-	
Sex; n (%) Female 1688 (52.5) 1685 (52.4) 0.002 Male 1525 (47.4) 1527 (47.5) 0.001 Other 10 (0.3) 10 (0.3) 0 Race; n (%) White 2241 (69.7) 2232 (69.4) 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) 0.003 Not Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02	Demographics				
Female 1688 (52.5) 1685 (52.4) 0.002 Male 1525 (47.4) 1527 (47.5) 0.001 Other 10 (0.3) 10 (0.3) 10 (0.3) 0 Race; n (%) Temporal of the properties of t	Age; mean (SD); y	18.8 (7.8)	18.8 (7.9)	0.002	
Male 1525 (47.4) 1527 (47.5) 0.001 Other 10 (0.3) 10 (0.3) 0 Race; n (%) White 2241 (69.7) 2232 (69.4) 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) 0.008 Not Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 0.008 Not Hispanic of Latino 193 (6.0) 210 (6.5) 0.02 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) 0.02 </td <td>Sex; n (%)</td> <td></td> <td></td> <td></td>	Sex; n (%)				
Other 10 (0.3) 10 (0.3) 10 (0.3) 0 Race; n (%) White 2241 (69.7) 2232 (69.4) 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) White Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) White Hawaiian or Other Pacific Islander 12 (0.3) 159 (49.6) 0.003 Not Hispanic of Latino 12426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 193 (6.9) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (259) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) <td r<="" td=""><td>Female</td><td>1688 (52.5)</td><td>1685 (52.4)</td><td>0.002</td></td>	<td>Female</td> <td>1688 (52.5)</td> <td>1685 (52.4)</td> <td>0.002</td>	Female	1688 (52.5)	1685 (52.4)	0.002
Race; n (%) White 2241 (69.7) 2232 (69.4) 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 <t< td=""><td>Male</td><td>1525 (47.4)</td><td>1527 (47.5)</td><td>0.001</td></t<>	Male	1525 (47.4)	1527 (47.5)	0.001	
White 2241 (69.7) 2232 (69.4) 0.006 Black or African American 413 (12.8) 420 (13.1) 0.006 Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) 450 (14.4) 1414 (44.0) 0.008 Not Hispanic or Latino 1296 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) 0 20 (0.6) 28 (0.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 </td <td>Other</td> <td>10 (0.3)</td> <td>10 (0.3)</td> <td>0</td>	Other	10 (0.3)	10 (0.3)	0	
Black or African American	Race; n (%)				
Asian 69 (2.1) 72 (2.2) 0.006 American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) Overweight and obesity (E66) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (110-116) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (J30-152) 133 (4.1) 113 (3.5) 0.03	White	2241 (69.7)	2232 (69.4)	0.006	
American Indian or Alaska Native 19 (0.6) 17 (0.5) 0.008 Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5)	Black or African American	413 (12.8)	420 (13.1)	0.006	
Native Hawaiian or Other Pacific Islander 10 (0.3) 10 (0.3) 0 Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%)	Asian	69 (2.1)	72 (2.2)	0.006	
Unknown 469 (14.6) 464 (14.4) 0.004 Ethnicity; n (%) <	American Indian or Alaska Native	19 (0.6)	17 (0.5)	0.008	
Ethnicity; n (%) Hispanic or Latino Not Hispanic of Latino 1596 (44.4) 1414 (44.0) 1596 (49.6) 1591 (49.5) 1590 (49.6) 1591 (49.5) 150.5) 10 (0.3)	Native Hawaiian or Other Pacific Islander	10 (0.3)	10 (0.3)	0	
Hispanic or Latino 1426 (44.4) 1414 (44.0) 0.008 Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1	Unknown	469 (14.6)	464 (14.4)	0.004	
Not Hispanic of Latino 1596 (49.6) 1591 (49.5) 0.003 Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%)	Ethnicity; n (%)				
Unknown 193 (6.0) 210 (6.5) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) <td>Hispanic or Latino</td> <td>1426 (44.4)</td> <td>1414 (44.0)</td> <td>0.008</td>	Hispanic or Latino	1426 (44.4)	1414 (44.0)	0.008	
Problems related to housing and economic circumstances; n (%) (Z59) 15 (0.5) 10 (0.3) 0.02 Comorbidities; n (%) Overweight and obesity (E66) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (130-152) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Not Hispanic of Latino	1596 (49.6)	1591 (49.5)	0.003	
Comorbidities; n (%) Overweight and obesity (E66) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Unknown	193 (6.0)	210 (6.5)	0.02	
Overweight and obesity (E66) 400 (12.4) 381 (11.9) 0.02 Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Problems related to housing and economic circumstances; n (%) (Z59)	15 (0.5)	10 (0.3)	0.02	
Hypertensive diseases (I10-I16) 75 (2.3) 57 (1.8) 0.04 Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Comorbidities; n (%)				
Type 1 diabetes mellitus (E10) 20 (0.6) 28 (0.9) 0.03 Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Overweight and obesity (E66)	400 (12.4)	381 (11.9)	0.02	
Type 2 diabetes mellitus (E11) 44 (1.4) 43 (1.3) 0.003 Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Hypertensive diseases (I10-I16)	75 (2.3)	57 (1.8)	0.04	
Bronchitis (J40) 140 (4.4) 130 (4.0) 0.02 Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Type 1 diabetes mellitus (E10)	20 (0.6)	28 (0.9)	0.03	
Asthma (J45) 345 (10.7) 340 (10.6) 0.005 Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Type 2 diabetes mellitus (E11)	44 (1.4)	43 (1.3)	0.003	
Nicotine dependence (F17.2) 60 (1.9) 48 (1.5) 0.03 Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Bronchitis (J40)	140 (4.4)	130 (4.0)	0.02	
Substance use disorder (F10-F19) 105 (3.3) 92 (2.9) 0.02 Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Asthma (J45)	345 (10.7)	340 (10.6)	0.005	
Psychotic disorder (F20-F29) 15 (0.5) 10 (0.3) 0.02 Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Nicotine dependence (F17.2)	60 (1.9)	48 (1.5)	0.03	
Mood disorder (F30-F39) 237 (7.4) 206 (6.4) 0.04 Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Substance use disorder (F10-F19)	105 (3.3)	92 (2.9)	0.02	
Anxiety disorder (F40-F48) 354 (11.0) 315 (9.8) 0.04 Heart disease (I30-I52) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Psychotic disorder (F20-F29)	15 (0.5)	10 (0.3)	0.02	
Heart disease (130-152) 133 (4.1) 113 (3.5) 0.03 Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Mood disorder (F30-F39)	237 (7.4)	206 (6.4)	0.04	
Chronic kidney disease (N18) 13 (0.4) 11 (0.3) 0.01	Anxiety disorder (F40-F48)	354 (11.0)	315 (9.8)	0.04	
	Heart disease (I30-I52)	133 (4.1)	113 (3.5)	0.03	
Fatty liver disease (K76.0) 26 (0.8) 14 (0.4) 0.05	Chronic kidney disease (N18)	13 (0.4)	11 (0.3)	0.01	
	Fatty liver disease (K76.0)	26 (0.8)	14 (0.4)	0.05	

Neoplasm (C00-D49)	153 (4.8)	132 (4.1)	0.03
Haematological cancer (C81-C96)	10 (0.3)	10 (0.3)	0
Lupus (M32)	10 (0.3)	10 (0.3)	0
Psoriasis (L40)	10 (0.3)	10 (0.3)	0
Certain disorders involving the immune mechanism (D80-D89)	17 (0.5)	15 (0.5)	0.009
Medications; n (%)			
Previous use of antimicrobial agents	1844 (57.4)	1826 (56.8)	0.01

Supplementary Table 4: Baseline characteristics of the matched cohorts of patients who were diagnosed with COVID-19 or made a visit to a healthcare organisation for another reason between March 20, 2020, and May 19, 2020. To de-confound the effect of the timing of diagnosis/healthcare visit on subsequent diagnosis of eating disorder, matching was stratified by the time of diagnosis into 2-month strata, and propensity score matching was applied separately in each stratum. SMD=Standardised mean difference.

	COVID-19	Visit	SMD
Number	13564	13564	-
Demographics			
Age; mean (SD); y	20.5 (7.7)	20.4 (7.8)	0.01
Sex; n (%)			
Female	7568 (55.8)	7417 (54.7)	0.02
Male	5921 (43.7)	6073 (44.8)	0.02
Other	75 (0.6)	74 (0.5)	0.001
Race; n (%)			
White	6496 (47.9)	6534 (48.2)	0.006
Black or African American	2670 (19.7)	2645 (19.5)	0.005
Asian	378 (2.8)	392 (2.9)	0.006
American Indian or Alaska Native	74 (0.5)	63 (0.5)	0.01
Native Hawaiian or Other Pacific Islander	37 (0.3)	29 (0.2)	0.01
Unknown	3909 (28.8)	3901 (28.8)	0.001
Ethnicity; n (%)			
Hispanic or Latino	3985 (29.4)	3975 (29.3)	0.002
Not Hispanic of Latino	6020 (44.4)	6093 (44.9)	0.01
Unknown	3559 (26.2)	3496 (25.8)	0.01
Problems related to housing and economic circumstances; n (%) (Z59)	104 (0.8)	83 (0.6)	0.02
Comorbidities; n (%)			
Overweight and obesity (E66)	1656 (12.2)	1540 (11.4)	0.03
Hypertensive diseases (110-116)	495 (3.6)	435 (3.2)	0.02
Type 1 diabetes mellitus (E10)	125 (0.9)	108 (0.8)	0.01
Type 2 diabetes mellitus (E11)	271 (2.0)	211 (1.6)	0.03
Bronchitis (J40)	378 (2.8)	322 (2.4)	0.03
Asthma (J45)	1530 (11.3)	1462 (10.8)	0.02
Nicotine dependence (F17.2)	497 (3.7)	462 (3.4)	0.01
Substance use disorder (F10-F19)	834 (6.1)	751 (5.5)	0.03
Psychotic disorder (F20-F29)	117 (0.9)	103 (0.8)	0.01
Mood disorder (F30-F39)	1248 (9.2)	1171 (8.6)	0.02
Anxiety disorder (F40-F48)	1725 (12.7)	1630 (12.0)	0.02
Heart disease (I30-I52)	606 (4.5)	511 (3.8)	0.04
Chronic kidney disease (N18)	85 (0.6)	62 (0.5)	0.02
Fatty liver disease (K76.0)	142 (1.0)	101 (0.7)	0.03
Neoplasm (C00-D49)	647 (4.8)	586 (4.3)	0.02

Previous use of antimicrobial agents	6718 (49.5)	6600 (48.7)	0.02	
Medications; n (%)				
Certain disorders involving the immune mechanism (D80-D89)	117 (0.9)	97 (0.7)	0.02	
Psoriasis (L40)	46 (0.3)	42 (0.3)	0.005	
Lupus (M32)	21 (0.2)	16 (0.1)	0.01	
Haematological cancer (C81-C96)	50 (0.4)	38 (0.3)	0.02	

Supplementary Table 5: Baseline characteristics of the matched cohorts of patients who were diagnosed with COVID-19 or made a visit to a healthcare organisation for another reason between May 20, 2020, and July 19, 2020. To de-confound the effect of the timing of diagnosis/healthcare visit on subsequent diagnosis of eating disorder, matching was stratified by the time of diagnosis into 2-month strata, and propensity score matching was applied separately in each stratum. SMD=Standardised mean difference.

	COVID-19	Visit	SMD
Number	34533	34533	-
Demographics			
Age; mean (SD); y	19.9 (7.5)	19.8 (7.6)	0.01
Sex; n (%)			
Female	19309 (55.9)	19174 (55.5)	0.008
Male	15146 (43.9)	15278 (44.2)	0.008
Other	78 (0.2)	81 (0.2)	0.002
Race; n (%)			
White	17566 (50.9)	17700 (51.3)	0.008
Black or African American	7645 (22.1)	7574 (21.9)	0.005
Asian	756 (2.2)	761 (2.2)	0.001
American Indian or Alaska Native	154 (0.4)	152 (0.4)	9.00E-04
Native Hawaiian or Other Pacific Islander	93 (0.3)	83 (0.2)	0.006
Unknown	8319 (24.1)	8263 (23.9)	0.004
Ethnicity; n (%)			
Hispanic or Latino	7643 (22.1)	7432 (21.5)	0.01
Not Hispanic of Latino	16329 (47.3)	16361 (47.4)	0.002
Unknown	10561 (30.6)	10740 (31.1)	0.01
Problems related to housing and economic circumstances; n (%) (Z59)	130 (0.4)	104 (0.3)	0.01
Comorbidities; n (%)			
Overweight and obesity (E66)	2662 (7.7)	2394 (6.9)	0.03
Hypertensive diseases (I10-I16)	989 (2.9)	822 (2.4)	0.03
Type 1 diabetes mellitus (E10)	217 (0.6)	179 (0.5)	0.01
Type 2 diabetes mellitus (E11)	465 (1.3)	351 (1.0)	0.03
Bronchitis (J40)	728 (2.1)	655 (1.9)	0.02
Asthma (J45)	2782 (8.1)	2608 (7.6)	0.02
Nicotine dependence (F17.2)	1072 (3.1)	972 (2.8)	0.02
Substance use disorder (F10-F19)	1780 (5.2)	1573 (4.6)	0.03
Psychotic disorder (F20-F29)	154 (0.4)	134 (0.4)	0.009
Mood disorder (F30-F39)	2398 (6.9)	2216 (6.4)	0.02
Anxiety disorder (F40-F48)	3577 (10.4)	3369 (9.8)	0.02
Heart disease (I30-I52)	1381 (4.0)	1192 (3.5)	0.03
Chronic kidney disease (N18)	167 (0.5)	143 (0.4)	0.01
Fatty liver disease (K76.0)	232 (0.7)	174 (0.5)	0.02
Neoplasm (C00-D49)	1355 (3.9)	1229 (2.6)	0.02
recommendation (Coo B 15)	1333 (3.9)	1238 (3.6)	0.02

Lupus (M32)	67 (0.2)	43 (0.1)	0.02	
Psoriasis (L40)	85 (0.2)	74 (0.2)	0.007	
Certain disorders involving the immune mechanism (D80-D89)	233 (0.7)	182 (0.5)	0.02	
Medications; n (%)				
Previous use of antimicrobial agents	15638 (45.3)	15318 (44.4)	0.02	

Supplementary Table 6: Baseline characteristics of the matched cohorts of patients who were diagnosed with COVID-19 or made a visit to a healthcare organisation for another reason between July 20, 2020, and September 19, 2020. To de-confound the effect of the timing of diagnosis/healthcare visit on subsequent diagnosis of eating disorder, matching was stratified by the time of diagnosis into 2-month strata, and propensity score matching was applied separately in each stratum. SMD=Standardised mean difference.

	COVID-19	Visit	SMD
Number	37988	37988	-
Demographics			
Age; mean (SD); y	19.3 (7.2)	19.2 (7.3)	0.01
Sex; n (%)			
Female	21034 (55.4)	20930 (55.1)	0.006
Male	16858 (44.4)	16962 (44.7)	0.006
Other	96 (0.3)	96 (0.3)	0
Race; n (%)			
White	21707 (57.1)	21811 (57.4)	0.006
Black or African American	6500 (17.1)	6433 (16.9)	0.005
Asian	742 (2.0)	748 (2.0)	0.001
American Indian or Alaska Native	120 (0.3)	104 (0.3)	0.008
Native Hawaiian or Other Pacific Islander	135 (0.4)	136 (0.4)	4.00E-04
Unknown	8784 (23.1)	8756 (23.0)	0.002
Ethnicity; n (%)			
Hispanic or Latino	6469 (17.0)	6273 (16.5)	0.01
Not Hispanic of Latino	21780 (57.3)	21832 (57.5)	0.003
Unknown	9739 (25.6)	9883 (26.0)	0.009
Problems related to housing and economic circumstances; n (%) (Z59)	154 (0.4)	117 (0.3)	0.02
Comorbidities; n (%)			
Overweight and obesity (E66)	2572 (6.8)	2345 (6.2)	0.02
Hypertensive diseases (I10-I16)	1062 (2.8)	882 (2.3)	0.03
Type 1 diabetes mellitus (E10)	198 (0.5)	195 (0.5)	0.001
Type 2 diabetes mellitus (E11)	445 (1.2)	337 (0.9)	0.03
Bronchitis (J40)	720 (1.9)	630 (1.7)	0.02
Asthma (J45)	3137 (8.3)	3020 (8.0)	0.01
Nicotine dependence (F17.2)	1172 (3.1)	1079 (2.8)	0.01
Substance use disorder (F10-F19)	2026 (5.3)	1870 (4.9)	0.02
Psychotic disorder (F20-F29)	188 (0.5)	165 (0.4)	0.009
Mood disorder (F30-F39)	2784 (7.3)	2571 (6.8)	0.02
Anxiety disorder (F40-F48)	4254 (11.2)	4032 (10.6)	0.02
Heart disease (I30-I52)	1617 (4.3)	1440 (3.8)	0.02
Chronic kidney disease (N18)	195 (0.5)	147 (0.4)	0.02
Fatty liver disease (K76.0)	266 (0.7)	214 (0.6)	0.02
Neoplasm (C00-D49)	1625 (4.3)	1555 (4.1)	0.009
Haematological cancer (C81-C96)	116 (0.3)	83 (0.2)	0.02

Lupus (M32)	65 (0.2)	45 (0.1)	0.01
Psoriasis (L40)	128 (0.3)	108 (0.3)	0.009
Certain disorders involving the immune mechanism (D80-D89)	261 (0.7)	220 (0.6)	0.01
Medications; n (%)			
Previous use of antimicrobial agents	16507 (43.5)	16215 (42.7)	0.02

Supplementary Table 7: Baseline characteristics of the matched cohorts of patients who were diagnosed with COVID-19 or made a visit to a healthcare organisation for another reason between September 20, 2020, and November 19, 2020. To de-confound the effect of the timing of diagnosis/healthcare visit on subsequent diagnosis of eating disorder, matching was stratified by the time of diagnosis into 2-month strata, and propensity score matching was applied separately in each stratum. SMD=Standardised mean difference.

Demographics Age; mean (SD); y 18.6 (8.0) 18.5 (8.0) 0.01 Sex; n (%) Sex; n (%) Female 33514 (54.7) 33349 (54.4) 0.005 Male 27385 (44.7) 27534 (44.9) 0.005 Other 366 (0.6) 382 (0.6) 0.003 Race; n (%) 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Ethnicity; n (%) Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009		COVID-19	Visit	SMD
Age; mann (SD); y Sex; n (%) Sex; n (%) Female 33514 (54.7) 33349 (54.4) 0.005 Male 27385 (44.7) 27534 (44.9) 0.005 Other 366 (0.6) 382 (0.6) 0.003 Race; n (%) White 38070 (62.1) 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.00E-04 Assian 1189 (1.9) 1184 (1.9) 6.00E-04 Assian 1189 (1.9) 1184 (1.9) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethicity; n (%) Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethicity; n (%) Unknown 15584 (25.4) 16006 (26.1) 0.002 Problems related to housing and economic circumstances; n (%) (Z5) 0.700 Comorbidities; n (%) Uneverweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.002 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.003 Type 1 diabetes mellitus (E10) 1792 2 diabetes mellitus (E10) 1792 2 diabetes mellitus (E11) 1792 3 diabetes mellitus (E10) 1896 (3.1) 1792 2 diabetes mellitus (E10) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1792 (3.8) 1896 (3.1) 1896 (3	Number	61265	61265	-
Sex; n (%) Female 33514 (54.7) 33349 (54.4) 0.005 Male 27385 (44.7) 27534 (44.9) 0.005 Other 366 (0.6) 382 (0.6) 0.003 Race; n (%) White 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) 0.01 0.02 0.02 Mot Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Problems related to housing and economic circumstances; n (%) (259) 20 (0.3) 171 (0.3) 0.00 Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2	Demographics			
Female 33514 (54.7) 33349 (54.4) 0.005 Male 27385 (44.7) 27534 (44.9) 0.005 Other 366 (0.6) 382 (0.6) 0.003 Race; n (%) White 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Misore Hawaiian or Other Pacific Islander 13979 (22.8) 14055 (22.9) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 44991 (57.1) 34957 (57.1) 0.001 Urknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (259) 202 (0.3) 171 (0.3) 0.009 Cowerweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 <t< td=""><td>Age; mean (SD); y</td><td>18.6 (8.0)</td><td>18.5 (8.0)</td><td>0.01</td></t<>	Age; mean (SD); y	18.6 (8.0)	18.5 (8.0)	0.01
Male 27385 (44.7) 27534 (44.9) 0.005 Other 366 (0.6) 382 (0.6) 0.003 Race; n (%)	Sex; n (%)			
Other 366 (0.6) 382 (0.6) 0.003 Race; n (%) White 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 0 4215 (6.9) 3930 (6.4) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 420 (0.3) 171 (0.3) 0.02 </td <td>Female</td> <td>33514 (54.7)</td> <td>33349 (54.4)</td> <td>0.005</td>	Female	33514 (54.7)	33349 (54.4)	0.005
Race; n %6 Race; n %6 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (19) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 Phyertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.00 Type 2 diabetes mell	Male	27385 (44.7)	27534 (44.9)	0.005
White 38070 (62.1) 38074 (62.1) 1.00E-04 Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic or Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 Pypel and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1	Other	366 (0.6)	382 (0.6)	0.003
Black or African American 7468 (12.2) 7418 (12.1) 0.002 Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; in (%) 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic or Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; in (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; in (%) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) <td>Race; n (%)</td> <td></td> <td></td> <td></td>	Race; n (%)			
Asian 1189 (1.9) 1184 (1.9) 6.00E-04 American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) 0.02 0.02 0.02 Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Uknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02	White	38070 (62.1)	38074 (62.1)	1.00E-04
American Indian or Alaska Native 262 (0.4) 223 (0.4) 0.01 Native Hawaiian or Other Pacific Islander 297 (0.5) 311 (0.5) 0.003 Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 0.02 Comorbidities; n (%) 0.02<	Black or African American	7468 (12.2)	7418 (12.1)	0.002
Native Hawaiian or Other Pacific Islander Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%) Hispanic or Latino Not Hispanic of Latino Not Hispanic of Latino 15844 (25.4) 16006 (26.1) 0.002 Problems related to housing and economic circumstances; n (%) (Z59) 0.003 Comorbidities; n (%) Overweight and obesity (E66) 4215 (6.9) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) Anxiety disorder (F40-F48) Anxiety disorder (F40-F48) Anxiety disorder (F40-F48) Anxiety disorder (F40-F48) Heart disease (I30-152) Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.003	Asian	1189 (1.9)	1184 (1.9)	6.00E-04
Unknown 13979 (22.8) 14055 (22.9) 0.003 Ethnicity; n (%)	American Indian or Alaska Native	262 (0.4)	223 (0.4)	0.01
Ethnicity; n (%) Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) Overweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (I10-I16) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (I45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Native Hawaiian or Other Pacific Islander	297 (0.5)	311 (0.5)	0.003
Hispanic or Latino 10690 (17.4) 10302 (16.8) 0.02 Not Hispanic of Latino 34991 (57.1) 34957 (57.1) 0.001 Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) Overweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Unknown	13979 (22.8)	14055 (22.9)	0.003
Not Hispanic of Latino Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) Overweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (I10-I16) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) Type 2 diabetes mellitus (E11) 702 (1.1) 880 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) Anxiety disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Fatty liver disease (K76.0) 8381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.001	Ethnicity; n (%)			
Unknown 15584 (25.4) 16006 (26.1) 0.02 Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) 0 0 0 0 0 Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 0.02 Hypertensive diseases (I10-I16) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (130-152) 2696 (4.4) 2387 (3.9) 0.03	Hispanic or Latino	10690 (17.4)	10302 (16.8)	0.02
Problems related to housing and economic circumstances; n (%) (Z59) 202 (0.3) 171 (0.3) 0.009 Comorbidities; n (%) Overweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-152) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Not Hispanic of Latino	34991 (57.1)	34957 (57.1)	0.001
Comorbidities; n (%) Comorbidities; n (%) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (I10-I16) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (130-152) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Unknown	15584 (25.4)	16006 (26.1)	0.02
Overweight and obesity (E66) 4215 (6.9) 3930 (6.4) 0.02 Hypertensive diseases (I10-I16) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Problems related to housing and economic circumstances; n (%) (Z59)	202 (0.3)	171 (0.3)	0.009
Hypertensive diseases (110-116) 1671 (2.7) 1428 (2.3) 0.03 Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Comorbidities; n (%)			
Type 1 diabetes mellitus (E10) 410 (0.7) 382 (0.6) 0.006 Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Overweight and obesity (E66)	4215 (6.9)	3930 (6.4)	0.02
Type 2 diabetes mellitus (E11) 702 (1.1) 580 (0.9) 0.02 Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Hypertensive diseases (I10-I16)	1671 (2.7)	1428 (2.3)	0.03
Bronchitis (J40) 1277 (2.1) 1099 (1.8) 0.02 Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Type 1 diabetes mellitus (E10)	410 (0.7)	382 (0.6)	0.006
Asthma (J45) 5744 (9.4) 5551 (9.1) 0.01 Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Type 2 diabetes mellitus (E11)	702 (1.1)	580 (0.9)	0.02
Nicotine dependence (F17.2) 1896 (3.1) 1725 (2.8) 0.02 Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Bronchitis (J40)	1277 (2.1)	1099 (1.8)	0.02
Substance use disorder (F10-F19) 3044 (5.0) 2764 (4.5) 0.02 Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Asthma (J45)	5744 (9.4)	5551 (9.1)	0.01
Psychotic disorder (F20-F29) 278 (0.5) 240 (0.4) 0.01 Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Nicotine dependence (F17.2)	1896 (3.1)	1725 (2.8)	0.02
Mood disorder (F30-F39) 5165 (8.4) 4807 (7.8) 0.02 Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Substance use disorder (F10-F19)	3044 (5.0)	2764 (4.5)	0.02
Anxiety disorder (F40-F48) 7871 (12.8) 7430 (12.1) 0.02 Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Psychotic disorder (F20-F29)	278 (0.5)	240 (0.4)	0.01
Heart disease (I30-I52) 2696 (4.4) 2387 (3.9) 0.03 Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Mood disorder (F30-F39)	5165 (8.4)	4807 (7.8)	0.02
Chronic kidney disease (N18) 305 (0.5) 228 (0.4) 0.02 Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Anxiety disorder (F40-F48)	7871 (12.8)	7430 (12.1)	0.02
Fatty liver disease (K76.0) 381 (0.6) 286 (0.5) 0.02 Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Heart disease (I30-I52)	2696 (4.4)	2387 (3.9)	0.03
Neoplasm (C00-D49) 3085 (5.0) 2862 (4.7) 0.02	Chronic kidney disease (N18)	305 (0.5)	228 (0.4)	0.02
	Fatty liver disease (K76.0)	381 (0.6)	286 (0.5)	0.02
Haematological cancer (C81-C96) 170 (0.3) 134 (0.2) 0.01	Neoplasm (C00-D49)	3085 (5.0)	2862 (4.7)	0.02
	Haematological cancer (C81-C96)	170 (0.3)	134 (0.2)	0.01

Lupus (M32)	100 (0.2)	86 (0.1)	0.006	
Psoriasis (L40)	214 (0.3)	206 (0.3)	0.002	
Certain disorders involving the immune mechanism (D80-D89)	453 (0.7)	393 (0.6)	0.01	
Medications; n (%)				
Previous use of antimicrobial agents	27470 (44.8)	26950 (44.0)	0.02	