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| **Supplementary material 3** Exclude patients with meningitis and encephalitis disease from the MIMIC III database according to ICD9-codes | | | | | | | | | | | |
| ICD9-code | | Description |  |  |  |  |  |  |  |  |  | |
| 1300 |  | Tuberculous meningitis, unspecified | | | | | | | |  |  | |
| 1301 | Tuberculous meningitis, bacteriological or histological examination not done | | | | | | | |  |  | |
| 468 | Other specified slow virus infection of central nervous system | | | | | | | |  |  | |
| 469 | Unspecified slow virus infection of central nervous system | | | | | | | |  |  | |
| 470 | Meningitis due to coxsackie virus | | | | | | | |  |  | |
| 471 | Meningitis due to echo virus | | | | | | | |  |  | |
| 478 | Other specified viral meningitis | | | | | | | |  |  | |
| 479 | Unspecified viral meningitis | | | | | | | |  |  | |
| 491 | Meningitis due to adenovirus | | | | | | | |  |  | |
| 498 | Other specified non-arthropod-borne viral diseases of central nervous system | | | | | | | |  |  | |
| 499 | Unspecified non-arthropod-borne viral diseases of central nervous system | | | | | | | |  |  | |
| 520 | Postvaricella encephalitis | | | | | | | |  |  | |
| 530 | Herpes zoster with meningitis | | | | | | | |  |  | |
| 5319 | Herpes zoster with other nervous system complications | | | | | | | |  |  | |
| 5379 | Herpes zoster with other specified complications | | | | | | | |  |  | |
| 5472 | Herpes simplex meningitis | | | | | | | |  |  | |
| 550 | Postmeasles encephalitis | | | | | | | |  |  | |
| 360 | Meningococcal meningitis | | | | | | | |  |  | |
| 361 | Meningococcal encephalitis | | | | | | | |  |  | |
| 362 | Meningococcemia | | | | | | | |  |  | |
| 363 | Waterhouse-Friderichsen syndrome, meningococcal | | | | | | | |  |  | |
| 1302 | Tuberculous meningitis, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1303 | Tuberculous meningitis, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1304 | Tuberculous meningitis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1305 | Tuberculous meningitis, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1306 | Tuberculous meningitis, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1310 | Tuberculoma of meninges, unspecified | | | | | | | |  |  | |
| 1311 | Tuberculoma of meninges, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1312 | Tuberculoma of meninges, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1313 | Tuberculoma of meninges, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1314 | Tuberculoma of meninges, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1315 | Tuberculoma of meninges, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1316 | Tuberculoma of meninges, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1320 | Tuberculoma of brain, unspecified | | | | | | | |  |  | |
| 1321 | Tuberculoma of brain, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1322 | Tuberculoma of brain, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1323 | Tuberculoma of brain, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1324 | Tuberculoma of brain, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1325 | Tuberculoma of brain, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1326 | Tuberculoma of brain, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other | | | | | | | |  |  | |
| 1330 | Tuberculous abscess of brain, unspecified | | | | | | | |  |  | |
| 1331 | Tuberculous abscess of brain, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1332 | Tuberculous abscess of brain, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1333 | Tuberculous abscess of brain, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1334 | Tuberculous abscess of brain, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1335 | Tuberculous abscess of brain, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1336 | Tuberculous abscess of brain, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1360 | Tuberculous encephalitis or myelitis, unspecified | | | | | | | |  |  | |
| 1361 | Tuberculous encephalitis or myelitis, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1362 | Tuberculous encephalitis or myelitis, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1363 | Tuberculous encephalitis or myelitis, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1364 | Tuberculous encephalitis or myelitis, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1365 | Tuberculous encephalitis or myelitis, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1366 | Tuberculous encephalitis or myelitis, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1380 | Other specified tuberculosis of central nervous system, unspecified | | | | | | | |  |  | |
| 1381 | Other specified tuberculosis of central nervous system, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1382 | Other specified tuberculosis of central nervous system, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1383 | Other specified tuberculosis of central nervous system, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1384 | Other specified tuberculosis of central nervous system, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1385 | Other specified tuberculosis of central nervous system, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1386 | Other specified tuberculosis of central nervous system, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1390 | Unspecified tuberculosis of central nervous system, unspecified | | | | | | | |  |  | |
| 1391 | Unspecified tuberculosis of central nervous system, bacteriological or histological examination not done | | | | | | | |  |  | |
| 1392 | Unspecified tuberculosis of central nervous system, bacteriological or histological examination unknown (at present) | | | | | | | |  |  | |
| 1393 | Unspecified tuberculosis of central nervous system, tubercle bacilli found (in sputum) by microscopy | | | | | | | |  |  | |
| 1394 | Unspecified tuberculosis of central nervous system, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture | | | | | | | |  |  | |
| 1395 | Unspecified tuberculosis of central nervous system, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically | | | | | | | |  |  | |
| 1396 | Unspecified tuberculosis of central nervous system, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals] | | | | | | | |  |  | |
| 1142 | Coccidioidal meningitis | | | | | | | |  |  | |
| 620 | Japanese encephalitis | | | | | | | |  |  | |
| 621 | Western equine encephalitis | | | | | | | |  |  | |
| 622 | Eastern equine encephalitis | | | | | | | |  |  | |
| 623 | St. Louis encephalitis | | | | | | | |  |  | |
| 624 | Australian encephalitis | | | | | | | |  |  | |
| 625 | California virus encephalitis | | | | | | | |  |  | |
| 632 | Central european encephalitis | | | | | | | |  |  | |
| 638 | Other specified tick-borne viral encephalitis | | | | | | | |  |  | |
| 3239 | Unspecified causes of encephalitis, myelitis, and encephalomyelitis | | | | | | | |  |  | |
| 3229 | Meningitis, unspecified | | | | | | | |  |  | |
| 3222 | Chronic meningitis | | | | | | | |  |  | |
| 3212 | Meningitis due to viruses not elsewhere classified | | | | | | | |  |  | |
| 3203 | Staphylococcal meningitis | | | | | | | |  |  | |
| 3201 | Pneumococcal meningitis | | | | | | | |  |  | |