

## Supplemental Information

### TAX IDENTIFICATION NUMBERS AND NATIONAL PROVIDER IDENTIFIERS USED TO IDENTIFY URGENT CARE AND DTC TELEMEDICINE VISITS

#### Tax Identification Numbers for Urgent Care Centers

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#### National Provider Identifiers for Urgent Care Centers

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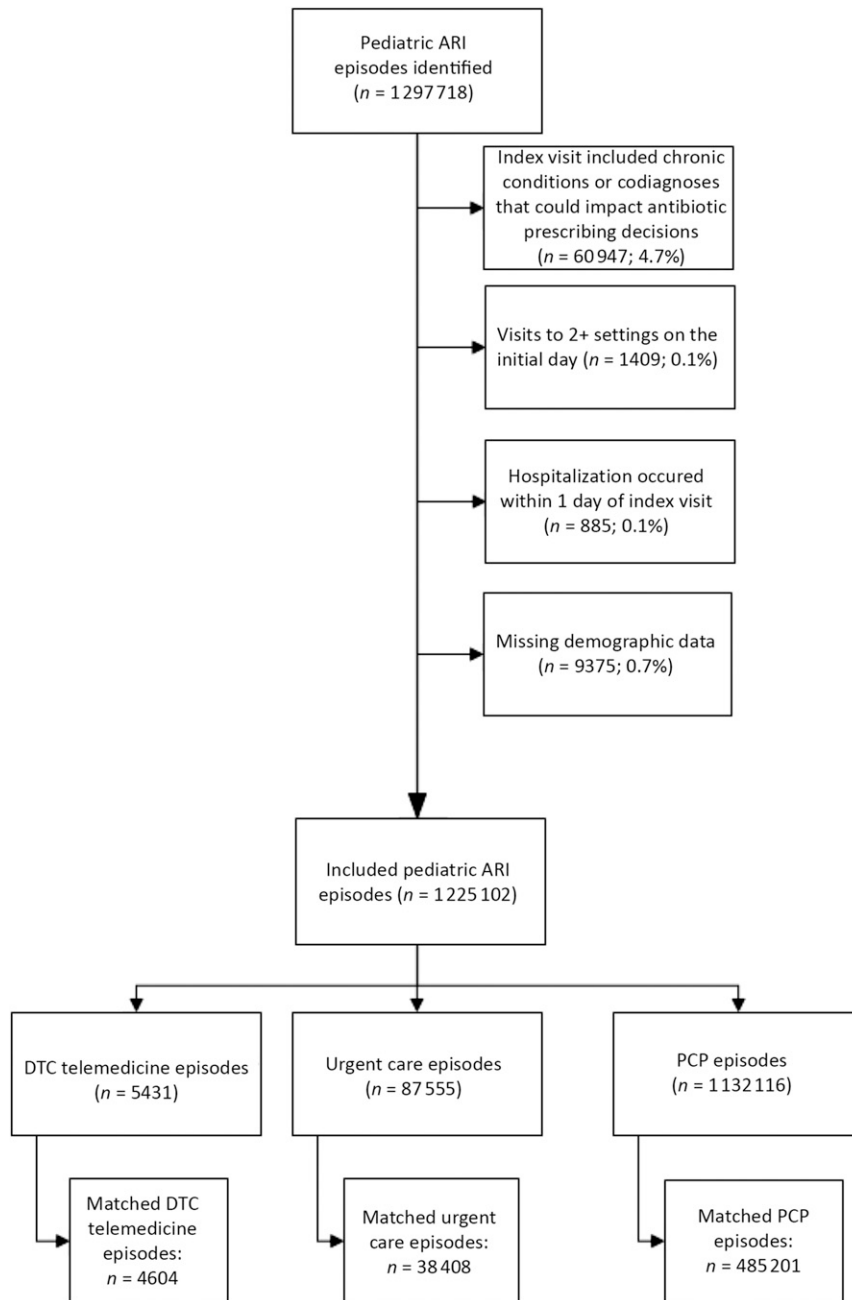
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#### Tax Identification Numbers for Telemedicine

272790442, 320381801, 205009396, 461326978, 201394099, 465488266, 272245888, 461674195, and 320356234

#### National Provider Identifiers for Telemedicine

1114353927, 1770859266, 1245403567, 1629352182, 1568731503, 1033475090, 1942545694, 1033454780, 1528402492, 1699146456, 1730537028, 1184072472, 1992153274, 1649628934, 1538517800, 1356799621, 1275981565, 1194173484, 1306294509, 1285082560, 1720436009, 1730537093, 1760830814, 1215385299, 1851749832, 1154773125, 1073946224, 1437568656, 1457787160, 1992131601, 1851709273, 1477881506, 1043641905, 1588095442, 1114358066, 1568893428, 1053742916, 1518398460, 1902209497, 1871966531, 1992178115, 1295108777, 1063885549, 1598138554, 1689049777, 1861867954, 1942675038, 1184045999, 1346658614, 1851709133, 1174931448, 1689082950, 1609284975, 1972919512, 1669792990, 1093184244, 1811378987, 1518330539, 1235548546, and 1306209366, as used by Poon et al<sup>24</sup> in their previous work.



**SUPPLEMENTAL FIGURE 2**

Strengthening the reporting of observational studies in epidemiology (STROBE) diagram. After identifying 1 297 718 episodes, we excluded episodes for which the index visit included ICD-9-CM codes for a set of chronic conditions (eg, history of transplant) or additional codiagnoses (eg, urinary tract infection) that could impact antibiotic prescribing decisions ( $n = 60\,947$ ; 4.7%) using a previously published list to promote consistency and reproducibility (conditions listed in Supplemental Table 5).<sup>15,21</sup> We excluded episodes for which there were visits to multiple settings on the initial day because we could not determine the order of such visits ( $n = 1\,409$ ; 0.1%). Because we focused on ambulatory prescribing, we excluded episodes with a hospitalization within 1 day of the index visit ( $n = 885$ ; 0.1%). Finally, we excluded 9375 visits with missing demographic data (0.7%).



**SUPPLEMENTAL TABLE 5** ARI Diagnoses

	ICD-9-CM Codes	ICD-10-CM Codes
Sinusitis	461.x	J01.00, J01.01, J01.10, J01.11, J01.20, J01.21, J01.30, J01.31, J01.40, J01.41, J01.80, J01.81, J01.90, J01.91
Streptococcal pharyngitis	034.x	A38.0, A38.1, A38.8, A38.9, J02.0, J03.00, J03.01
Acute otitis media	382.x	H66.001, H66.002, H66.003, H66.004, H66.005, H66.006, H66.007, H66.009, H66.011, H66.012, H66.013, H66.014, H66.015, H66.016, H66.017, H66.019, H66.10, H66.11, H66.12, H66.13, H66.20, H66.21, H66.22, H66.23, H66.3X1, H66.3X2, H66.3X3, H66.3X9, H66.40, H66.41, H66.42, H66.43, H66.90, H66.91, H66.92, H66.93, H67.1, H67.2, H67.3, H67.9
Bronchiolitis or bronchitis	466.x, 490.x	J20.8, J20.9, J21.0, J21.1, J21.8, J21.9, J40
Viral ARI	381.x, 460.x, 462.x, 463.x, 464.x, 465.x, 480.x	H65.00, H65.01, H65.02, H65.03, H65.04, H65.05, H65.06, H65.07, H65.111, H65.112, H65.113, H65.114, H65.115, H65.116, H65.117, H65.119, H65.191, H65.192, H65.193, H65.194, H65.195, H65.196, H65.197, H65.199, H65.20, H65.21, H65.22, H65.23, H65.30, H65.31, H65.32, H65.33, H65.411, H65.412, H65.413, H65.419, H65.491, H65.492, H65.493, H65.499, H65.90, H65.91, H65.92, H65.93, H68.001, H68.002, H68.003, H68.009, H68.011, H68.012, H68.013, H68.019, H68.021, H68.022, H68.023, H68.029, H68.101, H68.102, H68.103, H68.109, H68.111, H68.112, H68.113, H68.119, H68.121, H68.122, H68.123, H68.129, H68.131, H68.132, H68.133, H68.139, H69.00, H69.01, H69.02, H69.03, H69.80, H69.81, H69.82, H69.83, H69.90, H69.91, H69.92, H69.93, J00, J028, J029, J03.80, J03.81, J03.90, J03.91, J04.0, J04.10, J04.11, J04.2, J04.30, J04.31, J05.0, J05.10, J05.11, J06.0, J06.9, J12.0, J12.1, J12.2, J12.3, J12.81, J12.89, J12.9

ICD-10-CM codes were converted from ICD-9-CM codes by using a modified crosswalk from the Centers for Medicare and Medicaid Services.<sup>12</sup>

**SUPPLEMENTAL TABLE 6** Acute Diagnoses and Chronic Comorbidities Excluded From the Sample

Diagnosis	ICD-9-CM Codes	ICD-10-CM Codes
<b>Acute diagnoses</b>		
Abdominal infections	540, 541, 562, 566, 567, 574, 575, 576, 577, 289.2, 569.71, 572.0	K35.2, K35.3, K35.80, K35.89, K37, K57.10, K57.50, K57.00, K57.40, K57.52, K57.11–K57.13, K57.51, K57.01, K57.41, K57.53, K57.30–K57.33, K57.90–K57.93, K57.20, K57.80, K57.21, K57.81, K61.0, K61.1–K61.4, K67, K65.0–K65.2, K68.12, K68.19, K68.9, K65.3, K65.4, K65.8, K65.9, K91.850, K75.0, K81.0, K81.9, K81.1, K81.2, K82.0–K82.4, K82.8, K82.9, K91.5, K83.0–K83.5, K83.8, K87, K83.9, K85.0, K85.01, K85.02, K85.1, K85.11, K85.2, K85.20–K85.22, K85.3, K85.8, K85.81, K85.82, K85.9, K85.91, K85.92, K85.00, K85.10, K85.30, K85.80, K85.90, K86.0–K86.3, K86.8, K86.81, K86.89, K86.9, K80.60–K80.67, K80.00, K80.01, K80.10–K80.13, K80.18, K80.19, K80.20, K80.80, K80.21, K80.40–K80.47, K80.81, K80.30–K80.37, K80.50, K80.51, K80.70, K80.71
Acne	706.1	L700, L701, L703–L705, L708, L709, L730
Bacterial infection	031, 032, 035, 036, 037, 038, 039, 040, 320, 321, 322, 324, 421, 522, 523, 730, 790.7, 006.2, 008.43, 008.45, 008.49, 009.0, 009.2, 009.3, 026.1, 031.0, 031.8, 031.9, 035, 038.0, 038.10, 038.4, 041.86, 079.88, 079.98, 083.0, 088.81, 130.0, 376.02, 380.11, 380.23, 527.2, 528.3, 711.01, 711.03, 711.08, 711.84, 711.86, 711.89, 711.95, 711.97, 711.98, 728.0, 790.7, 999.31	A04.5–A04.7, A06.2, A09, A25.1, A31.0–A31.2, A31.8, A31.9, A35, A36.0–A36.3, A36.81–A36.89, A36.9, A39.0–A39.4, A39.50–A39.53, A39.81–A39.84, A39.89, A39.9, A40.0, A40.1, A40.3, A40.8, A40.9, A41.01, A41.02, A41.1–A41.4, A41.50–A41.53, A41.59, A41.81, A41.89, A41.9, A42.0–A42.2, A42.7, A42.81, A42.82, A42.89, A42.9, A43.0, A43.1, A43.8, A43.9, A46, A48.0, A48.2–A48.4, A48.51, A48.52, A48.8, A69.20–A69.23, A69.29, A74.81, A74.9, A78, B47.1, B47.9, B58.2, B96.81, G00.0–G00.3, G00.8, G00.9, G01, G02, G03.0, G03.1, G03.8, G03.9, G04.2, G06.0–G06.2, G07, H05.031–H05.033, H05.039, H60.60–H60.63, H60.8X1–H60.8X3, H60.8X9, H60.90–H60.93, H61.90–H61.93, I33.0, I33.9, I39, K03.6, K04.0, K04.01, K04.02, K04.1–K04.8, K04.90, K04.99, K05.00, K05.01, K05.10, K05.11, K05.20, K05.21, K05.211–K05.213, K05.219, K05.22, K05.221, K05.222, K05.30–K05.32, K05.329, K05.4–K05.6, K06.0–K06.3, K06.8, K06.9, K11.20–K11.23, K90.81, L08.1, M00.011, M00.012, M00.019, M00.031, M00.032, M00.039, M00.08, M00.211, M00.212, M00.219, M00.231, M00.232, M00.239, M00.28, M00.811, M00.812, M00.819, M00.831, M00.832, M00.839, M00.88, M46.20–M46.28, M46.30–M46.39, M60.000–M60.005, M60.009, M60.011, M60.012, M60.019, M60.021, M60.022, M60.029, M60.031, M60.032, M60.039, M60.041–M60.046, M60.051, M60.052, M60.059, M60.061, M60.062, M60.069, M60.070–M60.078, M60.08, M60.09, M86.00, M86.011, M86.012, M86.019, M86.021, M86.022, M86.029, M86.031, M86.032, M86.039, M86.041, M86.042, M86.049, M86.051, M86.052, M86.059, M86.061, M86.062, M86.069, M86.071, M86.072, M86.079, M86.08–M86.10, M86.111, M86.112, M86.119, M86.121, M86.122, M86.129, M86.131, M86.132, M86.139, M86.141, M86.142, M86.149, M86.151, M86.152, M86.159, M86.161, M86.162, M86.169, M86.171, M86.172, M86.179, M86.18–M86.20, M86.211, M86.212, M86.219, M86.221, M86.222, M86.229, M86.231, M86.232, M86.239, M86.241, M86.242, M86.249, M86.251, M86.252, M86.259, M86.261, M86.262, M86.269, M86.271, M86.272, M86.279, M86.28–M86.30, M86.311, M86.312, M86.319, M86.321, M86.322, M86.329, M86.331, M86.332, M86.339, M86.341, M86.342, M86.349, M86.351, M86.352, M86.359, M86.361, M86.362, M86.369, M86.371, M86.372, M86.379, M86.38–M86.40, M86.411, M86.412, M86.419, M86.421, M86.422, M86.429, M86.431, M86.432, M86.439, M86.441, M86.442, M86.449, M86.451, M86.452, M86.459, M86.461, M86.462, M86.469, M86.471, M86.472, M86.479, M86.48–M86.50, M86.511, M86.512, M86.519, M86.521, M86.522, M86.529, M86.531, M86.532, M86.539, M86.541, M86.542, M86.549, M86.551, M86.552, M86.559, M86.561, M86.562, M86.569, M86.571, M86.572, M86.579, M86.58–M86.60, M86.611, M86.612, M86.619, M86.621, M86.622, M86.629, M86.631, M86.632, M86.639, M86.641, M86.642, M86.649, M86.651, M86.652, M86.659, M86.661, M86.662, M86.669, M86.671, M86.672, M86.679, M86.68, M86.69, M86.8X0–M86.8X9, M86.9, M89.60, M89.611, M89.612, M89.619, M89.621, M89.622, M89.629, M89.631, M89.632, M89.639, M89.641, M89.642, M89.649, M89.651, M89.652, M89.659, M89.661, M89.662, M89.669, M89.671, M89.672, M89.679, M89.68, M89.69, M90.811, M90.812, M90.821, M90.822, M90.831, M90.832, M90.841, M90.842, M90.851, M90.852, M90.861, M90.862, M90.871, M90.872, M90.88, M90.89, T80.218A, T80.219A
Skin infection	680, 681, 682, 683, 684, 685, 686, 289.3, 373.13, 704.8, 705.83, 911.7, 914.1, 915.1, 915.3, 915.9, 919.5, 933.1, E906.0, E906.3	H00.031–H00.039, I88.8, I88.9, L01.00–L01.03, L01.09, L01.1, L02.01–L02.03, L02.11–L02.13, L02.211–L02.216, L02.219, L02.221–L02.226, L02.229, L02.231–L02.236, L02.239, L02.31–L02.33, L02.411–L02.416, L02.419, L02.421–L02.426, L02.429, L02.431–L02.436, L02.439, L02.511, L02.512, L02.519, L02.521, L02.522, L02.529, L02.531, L02.532, L02.539, L02.611, L02.612, L02.619, L02.621, L02.622, L02.629, L02.631, L02.632, L02.639, L02.811, L02.818, L02.821, L02.828, L02.831, L02.838, L02.91–L02.93, L03.011, L03.012, L03.019, L03.021, L03.022, L03.029, L03.031, L03.032, L03.039, L03.041, L03.042, L03.049, L03.111–L03.116, L03.119, L03.121–L03.126, L03.129, L03.211–L03.213, L03.221, L03.222, L03.311–L03.317, L03.319, L03.321–L03.327, L03.329, L03.811, L03.818, L03.891, L03.898, L03.90, L03.91, L04.0–L04.3, L04.8, L04.9, L05.01, L05.02, L05.91, L05.92, L08.0, L08.81, L08.82, L08.89, L08.9, L66.3, L73.1, L73.2, L73.8, L88, L92.8, L98.0, L98.3, T17.300A, T17.308A, T17.310A, T17.318A, T17.320A, T17.328A, T17.390A, T17.398A, W53.21XA, W53.21XD, W53.81XA, W53.81XD, W54.0XXA, W54.0XXD, W55.01XA, W55.01XD, W55.11XA, W55.11XD, W55.21XA, W55.21XD, W55.31XA,

SUPPLEMENTAL TABLE 6 Continued

Diagnosis	ICD-9-CM Codes	ICD-10-CM Codes
Wound infection	707, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 890, 891, 892, 893, 894, 895, 896, 897	<p>W55.31XD, W55.41XA, W55.41XD, W55.51XA, W55.51XD, W55.81XA, W55.81XD, W56.01XA, W56.01XD, W56.11XA, W56.11XD, W56.21XA, W56.21XD, W56.31XA, W56.31XD, W56.41XA, W56.41XD, W56.51XA, W56.51XD, W56.81XA, W56.81XD, W58.01XA, W58.01XD, W58.09XA, W58.09XD, W58.11XA, W58.11XD, W58.19XA, W58.19XD, W59.21XA, W59.21XD, W61.01XA, W61.01XD, W61.11XA, W61.11XD, W61.21XA, W61.21XD, W61.51XA, W61.51XD, W61.61XA, W61.61XD, W61.91XA, W61.91XD</p> <p>L89.000–L89.004, L89.009–L89.014, L89.019–L89.024, L89.029, L89.100–L89.104, L89.109–L89.114, L89.119–L89.124, L89.129–L89.134, L89.139–L89.144, L89.149–L89.154, L89.159–L89.204, L89.209–L89.214, L89.219–L89.224, L89.229–L89.304, L89.309–L89.314, L89.319–L89.324, L89.329, L89.40–L89.45, L89.500–L89.504, L89.509–L89.514, L89.519–L89.524, L89.529, L89.600–L89.604, L89.609–L89.614, L89.619–L89.624, L89.629, L89.810–L89.814, L89.819, L89.890–L89.894, L89.899, L89.90–L89.95, L97.101–L97.104, L97.109–L97.114, L97.119, L97.121–L97.124, L97.129, L97.201–L97.204, L97.209, L97.211–L97.214, L97.219, L97.221–L97.224, L97.229, L97.301–L97.304, L97.309, L97.311–L97.314, L97.319, L97.321–L97.324, L97.329, L97.401–L97.404, L97.409, L97.411–L97.414, L97.419, L97.421–L97.424, L97.429, L97.501–L97.504, L97.509, L97.511–L97.514, L97.519, L97.521–L97.524, L97.529, L97.801–L97.804, L97.809, L97.811–L97.814, L97.819, L97.821–L97.824, L97.829, L97.901–L97.904, L97.909, L97.911–L97.914, L97.919, L97.921–L97.924, L97.929, L98.411–L98.414, L98.419, L98.421–L98.424, L98.491–L98.494, L98.499, S01.00XA–S01.05XA, S01.101A, S01.102A, S01.109A, S01.111A, S01.112A, S01.119A, S01.121A, S01.122A, S01.129A, S01.131A, S01.132A, S01.139A, S01.141A, S01.142A, S01.149A, S01.151A, S01.152A, S01.159A, S01.20XA, S01.21XA–S01.25XA, S01.301A, S01.302A, S01.309A, S01.311A, S01.312A, S01.319A, S01.321A, S01.322A, S01.329A, S01.331A, S01.332A, S01.339A, S01.341A, S01.342A, S01.349A, S01.351A, S01.352A, S01.359A, S01.401A, S01.402A, S01.409A, S01.411A, S01.412A, S01.419A, S01.421A, S01.422A, S01.429A, S01.431A, S01.432A, S01.439A, S01.441A, S01.442A, S01.449A, S01.451A, S01.452A, S01.459A, S01.501A, S01.502A, S01.511A, S01.512A, S01.521A, S01.522A, S01.531A, S01.532A, S01.541A, S01.542A, S01.551A, S01.552A, S01.80XA–S01.85XA, S01.90XA–S01.95XA, S02.5XXA, S02.5XXB, S03.2XXA, S05.20XA–S05.22XA, S05.30XA–S05.32XA, S05.40XA–S05.42XA, S05.50XA–S05.52XA, S05.60XA–S05.62XA, S05.70XA–S05.72XA, S05.8X1A, S05.8X2A, S05.8X9A, S05.90XA–S05.92XA, S08.0XXA, S08.111A, S08.112A, S08.119A, S08.121A, S08.122A, S08.129A, S08.811A, S08.812A, S08.89XA, S09.12XA, S09.20XA, S09.21XA, S09.22XA, S09.301A, S09.302A, S09.309A, S09.311A–S09.313A, S09.319A, S09.391A, S09.392A, S09.399A, S09.8XXA, S09.90XA, S09.91XA, S11.011A–S11.015A, S11.019A, S11.021A–S11.025A, S11.029A, S11.031A–S11.035A, S11.039A, S11.10XA–S11.15XA, S11.20XA–S11.25XA, S11.80XA–S11.85XA, S11.89XA–S11.95XA, S16.2XXA, S21.001A, S21.002A, S21.009A, S21.011A, S21.012A, S21.019A, S21.021A, S21.022A, S21.029A, S21.031A, S21.032A, S21.039A, S21.041A, S21.042A, S21.049A, S21.051A, S21.052A, S21.059A, S21.101A, S21.102A, S21.109A, S21.111A, S21.112A, S21.119A, S21.121A, S21.122A, S21.129A, S21.131A, S21.132A, S21.139A, S21.141A, S21.142A, S21.149A, S21.151A, S21.152A, S21.159A, S21.201A, S21.202A, S21.209A, S21.211A, S21.212A, S21.219A, S21.221A, S21.222A, S21.229A, S21.231A, S21.232A, S21.239A, S21.241A, S21.242A, S21.249A, S21.251A, S21.252A, S21.259A, S21.90XA–S21.95XA, S28.1XXA, S28.211A, S28.212A, S28.219A, S28.221A, S28.222A, S28.229A, S29.021A, S29.022A, S29.029A, S31.000A, S31.010A–S31.050A, S31.100A–S31.105A, S31.109A–S31.115A, S31.119A–S31.125A, S31.129A–S31.135A, S31.139A–S31.145A, S31.149A–S31.155A, S31.159A, S31.20XA–S31.25XA, S31.30XA–S31.35XA, S31.40XA–S31.45XA, S31.501A, S31.502A, S31.511A, S31.512A, S31.521A, S31.522A, S31.531A, S31.532A, S31.541A, S31.542A, S31.551A, S31.552A, S31.801A–S31.805A, S31.809A, S31.811A–S31.815A, S31.819A, S31.821A–S31.825A, S31.831A–S31.835A, S31.839A, S38.211A, S38.212A, S38.221A, S38.222A, S38.231A, S38.232A, S38.3XXA, S39.021A–S39.023A, S41.001A, S41.002A, S41.009A, S41.011A, S41.012A, S41.019A, S41.021A, S41.022A, S41.029A, S41.031A, S41.032A, S41.039A, S41.041A, S41.042A, S41.049A, S41.051A, S41.052A, S41.059A, S41.101A, S41.102A, S41.109A, S41.111A, S41.112A, S41.119A, S41.121A, S41.122A, S41.129A, S41.131A, S41.132A, S41.139A, S41.141A, S41.142A, S41.149A, S41.151A, S41.152A, S41.159A, S46.021A, S46.022A, S46.029A, S46.121A, S46.122A, S46.129A, S46.221A, S46.222A, S46.229A, S46.321A, S46.322A, S46.329A, S46.821A, S46.822A, S46.829A, S46.921A, S46.922A, S46.929A, S48.011A, S48.012A, S48.019A, S48.021A, S48.022A, S48.029A, S48.111A, S48.112A, S48.119A, S48.121A, S48.122A, S48.129A, S48.911A, S48.912A, S48.919A, S48.921A, S48.922A, S48.929A, S51.001A, S51.002A, S51.009A, S51.011A, S51.012A, S51.019A, S51.021A, S51.022A, S51.029A, S51.031A, S51.032A, S51.039A, S51.041A, S51.042A, S51.049A, S51.051A, S51.052A, S51.059A, S51.801A, S51.802A, S51.809A, S51.811A, S51.812A, S51.819A, S51.821A, S51.822A, S51.829A, S51.831A, S51.832A, S51.839A, S51.841A, S51.842A, S51.849A, S51.851A, S51.852A, S51.859A, S56.021A, S56.022A, S56.029A,</p>

**SUPPLEMENTAL TABLE 6** Continued

Diagnosis	ICD-9-CM Codes	ICD-10-CM Codes
		S56.121A–S56.129A, S56.221A, S56.222A, S56.229A, S56.321A, S56.322A, S56.329A, S56.421A–S56.429A, S56.521A, S56.522A, S56.529A, S56.821A, S56.822A, S56.829A, S56.921A, S56.922A, S56.929A, S58.011A, S58.012A, S58.019A, S58.021A, S58.022A, S58.029A, S58.111A, S58.112A, S58.119A, S58.121A, S58.122A, S58.129A, S58.911A, S58.912A, S58.919A, S58.921A, S58.922A, S58.929A, S61.001A, S61.002A, S61.009A, S61.011A, S61.012A, S61.019A, S61.021A, S61.022A, S61.029A, S61.031A, S61.032A, S61.039A, S61.041A, S61.042A, S61.049A, S61.051A, S61.052A, S61.059A, S61.101A, S61.102A, S61.109A, S61.111A, S61.112A, S61.119A, S61.121A, S61.122A, S61.129A, S61.131A, S61.132A, S61.139A, S61.141A, S61.142A, S61.149A, S61.151A, S61.152A, S61.159A, S61.200A–S61.259A, S61.300A–S61.359A, S61.401A, S61.402A, S61.409A, S61.411A, S61.412A, S61.419A, S61.421A, S61.422A, S61.429A, S61.431A, S61.432A, S61.439A, S61.441A, S61.442A, S61.449A, S61.451A, S61.452A, S61.459A, S61.501A, S61.502A, S61.509A, S61.511A, S61.512A, S61.519A, S61.521A, S61.522A, S61.529A, S61.531A, S61.532A, S61.539A, S61.541A, S61.542A, S61.549A, S61.551A, S61.552A, S61.559A, S66.021A, S66.022A, S66.029A, S66.120A–S66.129A, S66.221A, S66.222A, S66.229A, S66.320A–S66.329A, S66.421A, S66.422A, S66.429A, S66.520A–S66.529A, S66.821A, S66.822A, S66.829A, S66.921A, S66.922A, S66.929A, S68.011A, S68.012A, S68.019A, S68.021A, S68.022A, S68.029A, S68.110A–S68.129A, S68.411A, S68.412A, S68.419A, S68.421A, S68.422A, S68.429A, S68.511A, S68.512A, S68.519A, S68.521A, S68.522A, S68.529A, S68.610A–S68.629A, S68.711A, S68.712A, S68.719A, S68.721A, S68.722A, S68.729A, S71.001A, S71.002A, S71.009A, S71.011A, S71.012A, S71.019A, S71.021A, S71.022A, S71.029A, S71.031A, S71.032A, S71.039A, S71.041A, S71.042A, S71.049A, S71.051A, S71.052A, S71.059A, S71.101A, S71.102A, S71.109A, S71.111A, S71.112A, S71.119A, S71.121A, S71.122A, S71.129A, S71.131A, S71.132A, S71.139A, S71.141A, S71.142A, S71.149A, S71.151A, S71.152A, S71.159A, S76.021A, S76.022A, S76.029A, S76.121A, S76.122A, S76.129A, S76.221A, S76.222A, S76.229A, S76.321A, S76.322A, S76.329A, S76.821A, S76.822A, S76.829A, S76.921A, S76.922A, S76.929A, S78.011A, S78.012A, S78.019A, S78.021A, S78.022A, S78.029A, S78.111A, S78.112A, S78.119A, S78.121A, S78.122A, S78.129A, S78.911A, S78.912A, S78.919A, S78.921A, S78.922A, S78.929A, S81.001A, S81.002A, S81.009A, S81.011A, S81.012A, S81.019A, S81.021A, S81.022A, S81.029A, S81.031A, S81.032A, S81.039A, S81.041A, S81.042A, S81.049A, S81.051A, S81.052A, S81.059A, S81.801A, S81.802A, S81.809A, S81.811A, S81.812A, S81.819A, S81.821A, S81.822A, S81.829A, S81.831A, S81.832A, S81.839A, S81.841A, S81.842A, S81.849A, S81.851A, S81.852A, S81.859A, S86.021A, S86.022A, S86.029A, S86.121A, S86.122A, S86.129A, S86.221A, S86.222A, S86.229A, S86.321A, S86.322A, S86.329A, S86.821A, S86.822A, S86.829A, S86.921A, S86.922A, S86.929A, S88.011A, S88.012A, S88.019A, S88.021A, S88.022A, S88.029A, S88.111A, S88.112A, S88.119A, S88.121A, S88.122A, S88.129A, S88.911A, S88.912A, S88.919A, S88.921A, S88.922A, S88.929A, S91.001A, S91.002A, S91.009A, S91.011A, S91.012A, S91.019A, S91.021A, S91.022A, S91.029A, S91.031A, S91.032A, S91.039A, S91.041A, S91.042A, S91.049A, S91.051A, S91.052A, S91.059A, S91.101A–S91.109A, S91.111A–S91.119A, S91.121A–S91.126A, S91.129A, S91.131A–S91.136A, S91.139A, S91.141A–S91.149A, S91.151A–S91.156A, S91.159A, S91.201A–S91.206A, S91.209A, S91.211A–S91.216A, S91.219A, S91.221A–S91.226A, S91.229A, S91.231A–S91.236A, S91.239A, S91.241A–S91.246A, S91.249A, S91.251A–S91.256A, S91.259A, S91.301A, S91.302A, S91.309A, S91.311A, S91.312A, S91.319A, S91.321A, S91.322A, S91.329A, S91.331A, S91.332A, S91.339A, S91.341A, S91.342A, S91.349A, S91.351A, S91.352A, S91.359A, S96.021A, S96.022A, S96.029A, S96.121A, S96.122A, S96.129A, S96.221A, S96.222A, S96.229A, S96.821A, S96.822A, S96.829A, S96.921A, S96.922A, S96.929A, S98.011A, S98.012A, S98.019A, S98.021A, S98.022A, S98.029A, S98.111A, S98.112A, S98.119A, S98.121A, S98.122A, S98.129A, S98.131A, S98.132A, S98.139A, S98.141A, S98.142A, S98.149A, S98.211A, S98.212A, S98.219A, S98.221A, S98.222A, S98.229A, S98.311A, S98.312A, S98.319A, S98.321A, S98.322A, S98.329A, S98.911A, S98.912A, S98.919A, S98.921A, S98.922A, S98.929A
Urinary tract infection	590, 597, 595.0, 595.9, 599.0	N11.0, N11.1, N11.8, N10, N15.1, N28.84, N28.85, N28.86, N11.9, N12, N13.6, N30.00, N30.01, N30.90, N30.91, N34.0, N34.3, N34.2, N39.0
Infections related to implants	996.6, 996.60, 996.61, 996.62, 996.63, 996.64, 996.65, 996.66, 996.67, 996.68, 996.69	T82.6XXA, T82.7XXA, T83.510A, T83.511A, T83.518A, T83.51XA, T83.592A, T83.593A, T83.59XA, T83.61XA, T83.69XA, T83.6XXA, T84.50XA–T84.54XA, T84.59XA, T84.60XA, T84.610A–T84.615A, T84.619A–T84.625A, T84.629A, T84.63XA, T84.69XA, T84.7XXA, T85.71XA, T85.72XA, T85.730A, T85.735A, T85.79XA, T86.842
Sexually transmitted disease	090, 091, 092, 093, 094, 095, 096, 097, 098, 099, V01.6, V01.89, V01.9	A50.01–A50.09, A50.1, A50.2, A50.30–A50.32, A50.39–A50.45, A50.49–A50.59, A50.6, A50.7, A50.9–A51.2, A51.31, A51.32, A51.39, A51.41–A51.46, A51.49, A51.5, A51.9, A52.00–A52.06, A52.09–A52.17, A52.19, A52.2, A52.3, A52.71–A52.79, A52.8–A53.0, A53.9, A54.00–A54.03, A54.09, A54.1, A54.21–A54.24, A54.29–A54.33, A54.39–A54.43, A54.49, A54.5, A54.6, A54.81–A54.86, A54.89, A54.9, A55, A56.00–A56.02, A56.09, A56.11, A56.19, A56.2–A56.4, A56.8, A57, A58, A63.8, A64, M02.30, M02.311, M02.312, M02.319–M02.322, M02.329, M02.331, M02.332, M02.339, M02.341, M02.342, M02.349, M02.351, M02.352, M02.359, M02.361,

SUPPLEMENTAL TABLE 6 Continued

Diagnosis	ICD-9-CM Codes	ICD-10-CM Codes
		M02.362, M02.369, M02.371, M02.372, M02.379, M02.38, M02.39, N34.1, Z20.2, Z20.7, Z20.818, Z20.9
Male urologic infections	601, 604, 131.03, 603.1	A59.02, N41.0–N41.4, N41.8, N41.9, N43.1, N45.1–N45.4
Gynecologic and postpartum infections	614, 615, 616, 646.6, 646.60, 646.61, 646.62, 646.63, 646.64, 647.9, 647.90, 131.9, 658.4, 658.40, 658.41, 675.1, 675.10, 675.14, 675.9, 675.90, 675.91, 675.94	A59.9, N70.01–N70.03, N70.11–N70.13, N70.91–N70.93, N71.0, N71.1, N71.9, N72, N73.0–N73.9, N74, N75.0, N75.1, N75.8, N75.9, N76.0–N76.6, N76.81, N76.89, N77.0, N77.1, 023.00–023.03, 023.10–023.13, 023.20–023.23, 023.30–023.33, 023.40–023.43, 023.511–023.513, 023.519, 023.521–023.523, 023.529, 023.591–023.593, 023.599, 023.90–023.93, 041.1010–041.1015, 041.1019–041.1025, 041.1029–041.1035, 041.1039, 041.1090–041.1095, 041.1099, 041.1210–041.1215, 041.1219–041.1225, 041.1229–041.1235, 041.1239, 041.1290–041.1295, 041.1299, 041.1410–041.1415, 041.1419–041.1425, 041.1429–041.1435, 041.1439, 041.1490–041.1495, 041.1499, 086.11, 086.13, 086.19–086.22, 086.29, 091.111–091.113, 091.119, 091.12, 091.13, 098.911–098.913, 098.919, 098.92, 098.93
Vaginitis	616.0, 616.10, 616.3, 616.4, 616.8, 616.9, 131.01	A59.01, N72, N75.1, N75.9, N76.0–N76.5, N76.81, N76.89
Chronic comorbidities		
HIV Status	042, V08, 079.53, 795.71	B20, B97.35, R75, Z21
posttransplant	V42, V42.0, V42.1, V42.6, V42.7, V42.8, V42.9, E878.0, 996.8, 996.80, 996.81, 996.82, 996.83, 996.84, 996.85, 996.86, 996.87, 996.89, E878.0	T86.00–T86.03, T86.09–T86.13, T86.19–T86.23, T86.290, T86.298, T86.30–T86.33, T86.39–T86.43, T86.49, T86.5, T86.810–T86.812, T86.818–T86.832, T86.838–T86.852, T86.858–T86.892, T86.898, T86.899, T86.90–T86.93, T86.99, Y83.0, Z48.21–Z48.24, Z48.280, Z48.288, Z48.290, Z48.298, Z94.0–Z94.7, Z94.81–Z94.84, Z94.9, Z95.3, Z95.4
Postoperative status Diabetes	998.5, 998.59, 998.51 250	K68.11, T81.4XXA E10.10, E10.11, E10.21, E10.22, E10.29, E10.311, E10.319, E10.321, E10.3211, E10.3213, E10.3219, E10.329, E10.3291–E10.3293, E10.3299, E10.331, E10.3313, E10.3319, E10.339, E10.3391, E10.3393, E10.3399, E10.341, E10.3413, E10.349, E10.3491, E10.3493, E10.3499, E10.351, E10.3511, E10.3513, E10.3519, E10.3553, E10.3559, E10.359, E10.3591, E10.3592, E10.3593, E10.3599, E10.36, E10.37X1, E10.37X3, E10.39–E10.44, E10.49, E10.51, E10.52, E10.59, E10.610, E10.618, E10.620–E10.622, E10.628, E10.630, E10.638, E10.641, E10.649, E10.65, E10.69, E10.8, E10.9, E11.00, E11.01, E11.21, E11.22, E11.29, E11.311, E11.319, E11.321, E11.3211–E11.3213, E11.3219, E11.329, E11.331, E11.3311–E11.3313, E11.3319, E11.339, E11.341, E11.3411, E11.3413, E11.3419, E11.349, E11.351, E11.3511, E11.3513, E11.3519, E11.3533, E11.3553, E11.3559, E11.359, E11.36, E11.37X1–E11.37X3, E11.39–E11.44, E11.49, E11.51, E11.52, E11.59, E11.610, E11.618, E11.620–E11.622, E11.628, E11.630, E11.638, E11.641, E11.649, E11.65, E11.69, E11.8, E11.9
Chronic pulmonary disease	135, 162, 491, 492, 493, 494, 495, 496, 500, 501, 502, 503, 504, 505, 506, 507, 508, 513, 515, 516, 517, 518, 748, 519.11, 519.8, 748.4, 748.5, 748.61, 714.81, 770.2	B44.81, C33, C34.00–C34.02, C34.10–C34.12, C34.2, C34.30–C34.32, C34.80–C34.82, C34.90–C34.92, D86.0–D86.3, D86.81–D86.87, D86.9, J22, J41.0, J41.1, J41.8, J42, J43.0–J43.2, J43.8–J44.1, J44.9, J45.20–J45.22, J45.30–J45.32, J45.40–J45.42, J45.50–J45.52, J45.901, J45.902, J45.909, J45.990, J45.991, J45.998, J47.0, J47.1, J47.9, J60, J61, J62.0, J62.8, J63.0–J63.6, J64, J65, J66.0–J66.2, J66.8, J67.0–J68.4

Initial visits that also contained diagnoses indicating the listed acute diagnoses and chronic comorbidities were excluded from the sample because these diagnoses may impact antibiotic prescribing decisions, consistent with previous studies.<sup>15,21</sup> ICD-10-CM codes were converted from ICD-9-CM codes by using a modified crosswalk from the Centers for Medicare and Medicaid Services.<sup>12</sup>

**SUPPLEMENTAL TABLE 7** Antibiotic Prescribing Outcome Categories

Category and Diagnosis	Definition and/or Specific Antibiotics	Primary Outcomes	
		Antibiotics Used	Guideline-Concordant Management
Guideline-concordant antibiotic use	Use of a specific antibiotic that is consistent with guidelines for a diagnosis that may warrant antibiotics		
Acute otitis media	Amoxicillin or amoxicillin-clavulanic acid	X	X
Sinusitis	Amoxicillin or amoxicillin-clavulanic acid	X	X
Streptococcal pharyngitis	Penicillin amoxicillin	X	X
Guideline–non-concordant antibiotic use	Use of a specific antibiotic that is not consistent with guidelines for a diagnosis that may warrant antibiotics		
Acute otitis media	Any systemic antibiotic other than the ones specified above	X	—
Sinusitis	Any systemic antibiotic other than the ones specified above	X	—
Streptococcal pharyngitis	Any systemic antibiotic other than the ones specified above	X	—
No antibiotic use	Lack of any antibiotics for a diagnosis that may warrant antibiotics		
Acute otitis media	No systemic antibiotics	—	X
Sinusitis	No systemic antibiotics	—	X
Streptococcal pharyngitis	No systemic antibiotic	—	—
Unnecessary antibiotic use	Any systemic antibiotic for a diagnosis that does not warrant antibiotics		
Bronchiolitis or bronchitis	Any systemic antibiotics	X	—
Other viral ARI	Any systemic antibiotics	X	—
Guideline-concordant nonuse	No use of systemic antibiotics for a diagnosis that does not warrant antibiotics		
Bronchiolitis or bronchitis	No systemic antibiotics	—	X
Other viral ARI	No systemic antibiotics	—	X

“Guideline-concordant antibiotic use” were visits with antibiotic prescribing consistent with published guidelines (ie, amoxicillin or amoxicillin-clavulanic acid for sinusitis,<sup>15</sup> amoxicillin or amoxicillin-clavulanic acid for otitis media,<sup>11</sup> and penicillin or amoxicillin for streptococcal pharyngitis<sup>27</sup>). “Guideline–non-concordant antibiotic use” were visits with these diagnoses with any other systemic antibiotic. “Unnecessary antibiotic use” were visits with antibiotics prescribed for a viral ARI diagnosis that does not warrant antibiotics. “Guideline-concordant nonuse” was no systemic antibiotics for diagnoses that do not warrant antibiotics (eg, bronchiolitis<sup>15</sup>). “No antibiotic use” was no systemic antibiotics prescribed for a diagnosis that may warrant antibiotics. In 1.1% of ARI index visits, there were 2 or more ARI diagnoses that may warrant antibiotics (eg, sinusitis and streptococcal pharyngitis). In these cases, visits were considered guideline concordant if the prescribed antibiotics were consistent with guidelines for either of the diagnoses. If visits included 1 diagnosis for which antibiotics may be appropriate and a second diagnosis that did not warrant antibiotics, the index visit was categorized on the basis of the appropriateness of antibiotics for the diagnosis that may warrant antibiotics. Alternative antibiotics may be guideline concordant in the setting of antibiotic allergies, but we were unable to ascertain allergies in these data. X, indicated that the diagnosis and antibiotic combination specified in the row was counted in the outcome specified in the column; —, not applicable.

**SUPPLEMENTAL TABLE 8**  $L_1$  Statistics Before and After Matching

	DTC Telemedicine and Urgent Care Visits	DTC Telemedicine and PCP Visits
$L_1$ statistics <sup>a</sup>		
Before match	0.461	0.508
After match	0.018	0.011
Details of matched visits		
No. strata	2265	2283
Average telemedicine visits per strata	2	2
Range of telemedicine visits per strata	1–30	1–30
Average urgent care and/or PCP visits per strata	17	213
Range of urgent care and/or PCP visits per strata	1–309	1–4338

Overall  $L_1$  statistics before and after matching many to 1 for each pair of matches (DTC telemedicine and urgent care; DTC telemedicine and PCP).

<sup>a</sup> The multivariate imbalance measure  $L_1$  provides a measure of the balance between 2 samples, with  $(1-L_1)$  indicating the percentage of the density of the histograms of the 2 samples that overlap.<sup>30</sup> Thus, 2 completely distinct distributions will have an  $L_1$  of 1, and 2 completely overlapping distributions will have an  $L_1$  of 0. The smaller value of  $L_1$  after matching in our analysis indicates a larger overlap in the 2 distributions, comparing DTC telemedicine to both urgent care and PCP visits.

**SUPPLEMENTAL TABLE 9** Sensitivity Analysis: Guideline-Concordant Antibiotic Management Defined as Only Guideline-Concordant Antibiotic Use and Guideline-Concordant Antibiotic Nonuse

	Pediatric Visits				
	DTC Telemedicine	Urgent Care	<i>P</i> <sup>a</sup>	PCP	<i>P</i> <sup>b</sup>
Overall, <i>N</i>	4604	38 408	—	485 201	—
Summative categories					
All visits, <i>n</i>	4604	38 408	—	485 201	—
Guideline-concordant management <sup>c</sup> among all visits, <i>n</i> (%)	2351 (51)	22 683 (59)	<.001	335 889 (69)	<.001
Visits where antibiotics may be indicated, <i>n</i>	1265	10 553	—	133 315	—
Guideline-concordant management <sup>c</sup> among visits in which antibiotics may be indicated, <i>n</i> (%)	561 (44)	4260 (40)	.006	52 776 (40)	.001

—, not applicable.

<sup>a</sup> *P* value was determined from  $\chi^2$  test for DTC telemedicine versus urgent care visits.

<sup>b</sup> *P* value was determined from  $\chi^2$  test for DTC telemedicine versus PCP visits.

<sup>c</sup> In this sensitivity analysis, visits with guideline-concordant antibiotic management include those categorized as guideline-concordant antibiotic use or guideline-concordant nonuse of antibiotics.