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| **Supplementary Table 1. Diagnostic codes of high-risk diagnoses determining appearance of a prompt for patients with a prior negative HIV test** |
| **Diagnostic category** | **Example diagnoses** | **Prompt rule** | **ICD9-CM Codes\*** |
| Diagnoses suggestive of potential recent HIV exposure | Acute STIs,\*\* high-risk sexual behavior | Prompt appears each time a diagnosis appears without a subsequent HIV test result | 070.20, 070.21, 070.30, 070.31, 070.51, 091.0 - 091.9, 097.9 - 098.19, 099.0 - 099.9, 131.00 -131.9, 614.0, 614.2, 614.3, 614.5, 614.8-615.0, 615.9, 616.0, V01.6, V65.45, V69.2  |
| Diagnoses suggestive of potential HIV exposure in the past | Chronic hepatitis B or C, late/chronic manifestations of STIs , HIV indicator conditions,10 AIDS-defining conditions11 | Prompt appears after the first time the diagnosis is coded if there is no subsequent HIV test result | 003.1,† 007.2, 007.4, 010.00 - 018.96, 027.0, 031.2, 031.8, 031.9, 041.2, 046.3, 049.8, 049.9, 053.0 - 053.29, 053.71, 053.79, 053.8, 053.9, 054.10 -054.19, 070.22, 070.23, 070.32 - 070.49, 070.54 - 070.9, 054.71, 054.79, 078.11, 078.5, 079.4, 085.0, 088.0, 092.0 - 097.1, 098.2 - 098.89, 112.4, 112.5, 112.81, 112.84, 112.89, 114.1 - 114.4, 115.00 - 115.09 (excluding 115.05), 115.10 - 115.19 (excluding 115.15), 115.90 - 115.99 (excluding 115.95), 117.5,130.0, 130.7, 130.9, 136.3, 162.3 - 162.9, 176.0 - 176.9, 180.0 - 180.9, 200.20 - 200.28, 200.50 - 200.58, 209.21, 230.5, 230.6, 233.1, 231.2, 260 - 263.9, 287.30, 287.31, 287.39, 287.5, 288.50, 288.51, 288.59, 290.10 - 290.13, 321.0, 348.3, 348.30, 348.39, 354.5, 354.8, 354.9, 355.79 - 355.9, 356.8, 356.9, 357.0, 481.0 - 483.1,‡ 484.3 – 484.5, ‡ 484.8 – 486, ‡ 528.6, 569.44, 571.40 -571.59, 573.1 -573.3, 614.1, 614.4, 614.6, 614.7, 615.1, 616.50 -616.9, 622.10 - 622.12, 690.10, 690.18, 696.8, 783.21, 783.22, 783.7, 785.6, 795.05-796.79, V10.11 |
| Diagnoses suggestive of relapsing behaviors associated with HIV-risk  | Substance use | Prompt appears if there is no HIV test result within the past year | 292.0 - 292.9, 304.00 - 304.93, 305.30 - 305.93 |
| \*ICD9-CM, *International Classification of Disease, 9th revision, Clinical Modification*\*\*STI, sexually transmitted infection†Code for recurrent salmonella septicemia triggered prompt if it appeared more than once‡Codes for bacterial pneumonia triggered prompt if they appeared more than once within a year |