|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | **Study** | |  | **No. of** |  | **Candidate Variable** | | | | | | | | | | | | **Discrim-** | **Calib-** |
|  | **Type &** | |  | **Candidate** |  |  |  |  |  | **Domains** | | | | | | | | **ination** | **ration** |
|  | **No. of** | |  | **Variables** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Subjects** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **D** | **V** |  |  | **D** | **X** | **MP** | | | **I** | **R** | **C** | **L** | **Y** | **U** | **T** | **S** |  |  |
| Berman (2011)33 | 447 | 836¥ | ~ 27 | |  |  |  |  |  |  |  |  |  |  |  |  |  | C=0.57¥ | n/a |
| Bajaj (2016)35 | 1343 |  | ~ 25 | |  |  |  |  |  |  |  |  |  |  |  |  |  | C=0.64 | n/a |
| Morales (2017)13 | 112 |  | ~ 34 | |  |  |  |  |  |  |  |  |  |  |  |  |  | C=0.76 | HL ns |
| Singal (2013)34 | 629 | 209β | ~ 30 | |  |  |  |  |  |  |  |  |  |  |  |  |  | C=0.66 | HL ns |
| Tapper (2015)37 | 489 | 245β | ~ 22 | |  |  |  |  |  |  |  |  |  |  |  |  |  | AUC=0.69 | n/a |
| Volk (2012)36 | 402 |  | ~ 22 | |  |  |  |  |  |  |  |  |  |  |  |  |  | C=0.65 | n/a |
| Koola (2020)22 | 67,749 |  |  | 208 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Study type = validation (V) and development (D). when a study evaluated performance in a dispersed validation cohort, the performance is stated in the validation cohort. The number of candidate variables had to be concluded *based on* the written methods and the cohort summary table as this number was not explicitly reported. Model discrimination reported as either C-statistic or area under the curve (AUC), which can be considered equivalent. Risk variable domains coding: D: demographics; X: medical/surgical Hx; M: meds; P: inpatient procedures; I: physical impairment; R: risk scores; C: cirrhosis-related complications; L: laboratories; Y: psychosocial; U: healthcare utilization; T: transplant status; S: discharge disposition

aValidation performed in separate study (Singal) [18]; β: validation cohorts were made by random train–test split of the original cohort; HL: Hosmer–Lemeshow test for goodness of fit