Chronic Disease Risk Calculators – Summary

Model	Function (prediction target)	Inputs	Output	Model type	DOI
SCORE2	10-year first-onset CVD (non-fatal MI, non-fatal stroke, CVD death)	Age, sex, smoking, systolic BP, total cholesterol, HDL cholesterol, ESC region	10-year absolute risk (%)	Competing-risk–adjusted model (Fine–Gray)	10.1093/eur heartj/ehab 309
GDRS (clinical, 2018)	5-year incident type 2 diabetes	Age, height, waist circumference, hypertension, physical activity, smoking (5 levels), wholegrains, coffee, red meat, parental/sibling diabetes, HbA1c	5-year absolute risk (%)	Cox proportional hazards	10.1136/bm jdrc-2018-0 00524
CAIDE	20-year incident dementia (midlife adults)	Age, sex, education, systolic BP, BMI, total cholesterol, physical activity, ± APOE ε4	20-year absolute risk (%)	Points-based score with logistic mapping	10.1016/S1 474-4422(0 6)70537-3
CKD-PC (2019)	5-year incident CKD (eGFR <60; baseline eGFR >60)	Age, sex, Black race indicator, baseline eGFR, CVD history, ever-smoker, hypertension, BMI; in diabetes: HbA1c & diabetes meds; albuminuria optional (ACR-missing supported)	5-year absolute risk (%)	Multicohort competing-risk framework (subdistribution hazards)	10.1001/ja ma.2019.17 379
CLivD (lab version)	15-year incident advanced chronic liver disease (general population)	Age, sex, waist–hip ratio, alcohol/week, GGT, diabetes, smoking	Risk category (minimal/low /intermediate/high) and relative risk (hazard ratio)	Cox proportional hazards (baseline survival not published)	10.1016/j.jh ep.2022.02. 016
PLCOm2012	6-year incident lung cancer (ever-smokers)	Age, race/ethnicity, education, BMI, COPD history, personal & family cancer history, smoking status, intensity, duration, years since quit	6-year absolute risk (%)	Logistic regression	10.1056/NE JMoa12117 76
COPD case-finding (Haroon 2014)	Undiagnosed (current) COPD in primary care (screening/case-finding)	Smoking status, asthma history, lower respiratory tract infections (3y), salbutamol prescriptions (3y)	Likelihood score / threshold → spirometry recommendation	Logistic regression (externally validated)	10.1136/bm jresp-2013- 000001

Notes: Keep each model's native horizon; avoid re-horizoning fixed-horizon logistic models. CLivD provides categories/relative risk (no published baseline survival). Risks reflect external cohorts; local calibration may adjust absolute levels.