DeepSurv	0.32 (0.31,0.33)	0.29 (0.28,0.29)	0.18 (0.17,0.18)	0.1 (0.09,0.1)	0.2 (0.2,0.21)	0.26 (0.26,0.27)	0.25 (0.25,0.26)	0.22 (0.22,0.22)
DeepHit	0.26 (0.25,0.26)	0.22 (0.21,0.23)	0.15 (0.14,0.15)	0.1 (0.09,0.1)	0.18 (0.17,0.18)	0.21 (0.21,0.22)	0.2 (0.2,0.21)	0.18 (0.18,0.19)
PMNN	0.26 (0.25,0.26)	0.22 (0.21,0.22)	0.15 (0.14,0.15)	0.1 (0.09,0.11)	0.18 (0.17,0.18)	0.21 (0.21,0.22)	0.2 (0.2,0.2)	0.18 (0.18,0.18)
Optimal	0.23 (0.23,0.24)	0.19 (0.18,0.2)	0.13 (0.13,0.14)	0.09 (0.09,0.1)	0.16 (0.16,0.17)	0.19 (0.19,0.19)	0.18 (0.18,0.18)	0.16 (0.16,0.17)
DSM	0.32 (0.3,0.33)	0.3 (0.29,0.31)	0.19 (0.18,0.2)	0.1 (0.09,0.1)	0.22 (0.22,0.23)	0.27 (0.26,0.28)	0.27 (0.26,0.28)	0.23 (0.23,0.24)
Complex	IPA				C-Index			
Method	25	50	75	100	25	50	75	100
Cox	0.11 (0.11,0.11)	0.14 (0.13,0.14)	0.15 (0.15,0.15)	0.14 (0.13,0.14)	0.1 (0.1,0.1)	0.11 (0.11,0.11)	0.12 (0.12,0.12)	0.13 (0.13,0.13)
Casebase	0.11 (0.11,0.11)	0.14 (0.13,0.14)	0.15 (0.14,0.15)	0.13 (0.13,0.14)	0.1 (0.1,0.1)	0.11 (0.11,0.11)	0.13 (0.12,0.13)	0.13 (0.13,0.13)
DeepSurv	0.23 (0.23,0.23)	0.24 (0.23,0.24)	0.16 (0.15,0.16)	0.09 (0.09,0.09)	0.23 (0.22,0.23)	0.23 (0.22,0.23)	0.22 (0.22,0.22)	0.19 (0.19,0.2)
DeepHit	0.18 (0.17,0.18)	0.23 (0.23,0.23)	0.13 (0.13,0.14)	0.08 (0.08,0.09)	0.19 (0.18,0.19)	0.19 (0.19,0.2)	0.2 (0.19,0.2)	0.17 (0.17,0.17)
PMNN	0.04 (0.04,0.04)	0.07 (0.07,0.08)	0.06 (0.06,0.06)	0.04 (0.04,0.04)	0.04 (0.04,0.04)	0.05 (0.04,0.05)	0.06 (0.05,0.06)	0.05 (0.05,0.06)
Optimal	0.01 (0.01,0.02)	0.03 (0.02,0.03)	0.02 (0.02,0.02)	0.02 (0.02,0.02)	0.02 (0.02,0.02)	0.02 (0.02,0.02)	0.02 (0.02,0.02)	0.02 (0.02,0.02)
SUPPORT	IPA				C-Index			
55115101					· · · ·			
Method	25			100	25	50	75	100
	25 0.23 (0.23,0.23)			0.2 (0.2,0.2)	25 0.23 (0.23,0.23)			100 0.21 (0.21,0.21)
Method		50	75		1	50	75	
Method Cox	0.23 (0.23,0.23)	50 0.21 (0.21,0.21)	75 0.19 (0.19,0.19)	0.2 (0.2,0.2)	0.23 (0.23,0.23)	50 0.22 (0.22,0.22)	75 0.22 (0.22,0.22)	0.21 (0.21,0.21)
Method Cox Casebase	0.23 (0.23,0.23) 0.23 (0.23,0.23)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19)	0.2 (0.2,0.2) 0.2 (0.2,0.2)	0.23 (0.23,0.23)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22)	0.21 (0.21,0.21) 0.21 (0.21,0.21)
Method Cox Casebase DeepSurv	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22)
Method Cox Casebase DeepSurv DeepHit	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.2,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)
Method Cox Casebase DeepSurv DeepHit	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.2,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)
Method Cox Casebase DeepSurv DeepHit	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.21 (0.21,0.21)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.2,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)
Method Cox Casebase DeepSurv DeepHit PMNN	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.21 (0.21,0.21)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.2 (0.19,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23)	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22)
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.19,0.2)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25) 0.25 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In	75 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.21,0.22)
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC Method	0.23 (0.23,0.23) 0.23 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24) 25	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.19,0.2) PA 75	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19)	0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25) 0.25 (0.24,0.25)	50 0.22 (0.22,0.22) 0.22 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In	75 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22) dex 75	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.22,0.22) 0.22 (0.21,0.22)
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC Method Cox	0.23 (0.23,0.23) 0.23 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24) 25 0.2 (0.2,0.2)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21) 50 0.23 (0.23,0.23)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.19,0.2) A 75 0.18 (0.18,0.18)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19) 100	0.23 (0.23,0.23) 0.23 (0.24,0.24) 0.24 (0.24,0.25) 0.25 (0.24,0.25) 25 0.11 (0.11,0.11)	50 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In 50 0.17 (0.17,0.17)	75 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22) o.25 (0.22,0.23) 0.18 (0.18,0.18)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.21,0.22) 100
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC Method Cox Casebase	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24) 25 0.2 (0.2,0.2) 0.2 (0.2,0.2)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21) 50 0.23 (0.23,0.23) 0.23 (0.23,0.23)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.19,0.2) PA 75 0.18 (0.18,0.18) 0.18 (0.18,0.18)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19) 100 - 0.1 (0.1,0.11)	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.25 (0.24,0.25) 25 0.11 (0.11,0.11) 0.11 (0.11,0.11)	50 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In 50 0.17 (0.17,0.17) 0.17 (0.17,0.17)	75 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22) dex 75 0.18 (0.18,0.18) 0.18 (0.18,0.18)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.21,0.22) 100 - 0.17 (0.17,0.17)
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC Method Cox Casebase DeepSurv	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24) 25 0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.21 (0.21,0.21)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21) 50 0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.28 (0.27,0.28)	75 0.19 (0.19,0.19) 0.19 (0.19,0.19) 0.2 (0.2,0.2) 0.2 (0.19,0.2) A 75 0.18 (0.18,0.18) 0.18 (0.18,0.18) 0.23 (0.23,0.24)	0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19) 100 - 0.1 (0.1,0.11) 0.13 (0.13,0.13)	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.25 (0.24,0.25) 25 0.11 (0.11,0.11) 0.11 (0.11,0.11)	50 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In 50 0.17 (0.17,0.17) 0.17 (0.17,0.17) 0.19 (0.19,0.19)	75 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22) oldex 75 0.18 (0.18,0.18) 0.18 (0.18,0.18) 0.21 (0.21,0.21)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.21,0.22) 100 - 0.17 (0.17,0.17) 0.2 (0.2,0.2)
Method Cox Casebase DeepSurv DeepHit PMNN METABRIC Method Cox Casebase DeepSurv DeepHit	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.23,0.24) 0.23 (0.23,0.24) 25 0.2 (0.2,0.2) 0.2 (0.2,0.2) 0.21 (0.21,0.21) 0.21 (0.21,0.21)	50 0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.21 (0.21,0.21) 50 0.23 (0.23,0.23) 0.23 (0.23,0.23) 0.25 (0.25,0.25)	75 0.19 (0.19,0.19) 0.19 (0.2,0.2) 0.2 (0.2,0.2) 0.2 (0.19,0.2) 75 0.18 (0.18,0.18) 0.18 (0.18,0.18) 0.23 (0.23,0.24) 0.19 (0.19,0.19)	0.2 (0.2,0.2) 0.18 (0.18,0.18) 0.21 (0.21,0.21) 0.19 (0.19,0.19) 100 - 0.1 (0.1,0.11) 0.13 (0.13,0.13) 0.11 (0.11,0.11)	0.23 (0.23,0.23) 0.24 (0.24,0.24) 0.24 (0.24,0.25) 0.25 (0.24,0.25) 25 0.11 (0.11,0.11) 0.11 (0.11,0.11) 0.11 (0.11,0.11)	50 0.22 (0.22,0.22) 0.23 (0.23,0.23) 0.23 (0.23,0.24) 0.23 (0.23,0.23) C-In 50 0.17 (0.17,0.17) 0.17 (0.17,0.17) 0.19 (0.19,0.19) 0.18 (0.18,0.18)	75 0.22 (0.22,0.22) 0.22 (0.22,0.23) 0.23 (0.22,0.23) 0.22 (0.22,0.22) o.21 (0.21,0.21) 0.19 (0.19,0.19)	0.21 (0.21,0.21) 0.21 (0.21,0.21) 0.22 (0.22,0.22) 0.22 (0.21,0.22) 100 - 0.17 (0.17,0.17) 0.2 (0.2,0.2) 0.18 (0.18,0.18)

C-Index

75

0.18 (0.18,0.18)

0.18 (0.18,0.18)

100

0.16 (0.16,0.17)

0.16 (0.16,0.17)

50

0.19 (0.19,0.19)

0.19 (0.19,0.19)

IPA

75

0.13 (0.13,0.14)

0.13 (0.13,0.14)

100

0.09 (0.09,0.1)

0.09 (0.09,0.1)

25

0.17 (0.16,0.17)

0.16 (0.16,0.17)

50

0.19 (0.19,0.2)

0.19 (0.18,0.2)

Simple

Method

Cox

Casebase

25

0.23 (0.23,0.24)

0.23 (0.23,0.24)