

Supplementary Table 2. Evidence profile for bleeding-related prognostic factors

No. of studies		Cert	ainty asses	sment dom	Overall certainty in				
	Study design	Risk of bias	Indirect	Inconsis- tent	Imprecise	Publica- tion bias	the evidence about this prognostic factor	Relative effect, OR (95% CI)	
History of peptic ulcer/GIB (yes vs. no) [19,23,24,28,30,39,41,45,47,48,50-52]									
13	Observa- tional	Serious	Not serious	Serious	Not serious	Serious	⊕⊙⊙⊙ VERY LOW	5.26 (2.76–10.05)	
Concomita	int therapy w	ith clopidog	rel (yes vs.	no) [19]					
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	2.37 (1–5.65)	
HasBled-Sc	ore (≥ 3 vs. <	< 3) [19,41]							
2	Observa- tional	Serious	Not serious	Serious	Serious	Undetect- ed	⊕⊙⊙⊙ VERY LOW	1.20 (0.06–22.63)	
Older age	(yes vs. no) [1	9,23,24,28,	33,36,45,4	7]					
8	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.95 (1.36–2.79)	
Age: for ea	ach 1-year inc	rease (yes v	s. no) [40,5	1]					
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.03 (1.01–1.06)	
Age: for ea	ach 5-year inc	crease (yes v	s. no) [50]						
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.11 (1.06–1.17)	
Kidney dise	ease (yes vs. r	no) [19,36,4	5,46,52]						
5	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.69 (1.24–2.31)	
Combination	on of corticos	steroid (yes	vs. no) [19,4	11]					
2	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	2.14 (0.98–4.72)	
Dabigatrar	dose (dabiga	atran 150 m	g twice dai	ly vs. warfar	rin) [21,35]				
2	Observa- tional	Serious	Not serious	Serious	Not serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.53 (1.39–1.69)	
Concomita	int use of asp	irin (yes vs.	no) [22,23,2	26,27,47]					
5	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	2.07 (1.17–3.66)	
INR (> 2.1	vs. $\leq 2.1; \geq 4$	vs. < 4) [24,	41]						
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	INR > 2.1: 2.05 (1.00-4.20) INR < 4: 4.09 (1.17-14.27)	
Cirrhosis (y	es vs. no) [24	,52]							
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	6.24 (2.63–14.83)	
Obesity (w	eight > 120 v	s. ≤ 120 kg)	[25]						
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.44 (1.01–2.05)	
Alcohol us	e (yes vs. no)	[26,36]							
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	3.46 (2.30–5.19)	



Supplementary Table 2. Continued

No. of			ainty asses	sment dom	Overall certainty in	5 L		
studies	Study design	Risk of bias	Indirect	Inconsis- tent	Imprecise	Publica- tion bias	the evidence about this prognostic factor	Relative effect, OR (95% C
Smoking (y	es vs. no) [26	5,50]						
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.26 (1.18–1.35)
Liver failur	e (yes vs. no)	[26]						
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	7.01 (4.78–10.27)
Concomita	nt with NSAI	Ds: includin	g paracetar	nol, COX-2	inhibitor (yes	s vs. no) [26,	,39,43,47]	
4	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	NSAIDs use: 2.37 (1.61–3.50 Paracetamol use: 1.47 (1.35–1.60) COX-2 inhibitor use: 1.97 (1.59–2.40)
Antiplatele	t agent use (yes vs. no) [1	19,27,36,39	,42,47,48,5	0,51]			
9	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.45 (1.11–1.90)
HF (conges	tive HF vs. no	o congestive	HF; chroni	c HF vs. no	chronic HF) [28,36,46]		
3	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	Any HF: 1.30 (1.14–1.49) Chronic HF: 1.31 (1.09–1.58 Congestive HF: 1.29 (1.06–1.57)
History of I	oleeding (yes	vs. no) [28]						
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	History of bleeding: 3.26 (1.86–5.73)
Sex (male v	s. female) [20	0,26,28,36,3	39,40,47]					
2	Observa- tional	Serious	Not serious	Serious	Not serious	Undetect- ed	⊕⊕⊙⊙ LOW	0.95 (0.72–1.26)
Myocardia	infarction (y	es vs. no) [2	8]					
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	2.23 (1.12–4.43)
Peripheral	vascular disea	ase: includin	g periphera	l artery dise	ase (yes vs.	no) [28,36]		
2	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	2.33 (0.66–8.20)
Concomita	nt use of dro	nedarone (y	ves vs. no) [2	29]				
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.29 (1.04–1.62)
Combination	on of CYP3A	4 and/or P-g	gp-inhibitor	s (yes vs. no) [31]			
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.47 (1.15–1.88)
Oral gluco	corticoid use	(yes vs. no)	[32]					
1	Observa- tional	Serious	Not serious	Serious	Not serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.83 (1.30–2.59)



Supplementary Table 2. Continued

No. of		Cert	ainty asses	sment dom	Overall certainty in			
studies	Study design	Risk of bias	Indirect	Inconsis- tent	Imprecise	Publica- tion bias	the evidence about this prognostic factor	Relative effect, OR (95% CI)
Renal failu	re (yes vs. no)) [34,47]						
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	Total: 3.18 (1.44–6.99) GFR 50–80 mL/min /1.73 m ² : 2.95 (1.24–7.02) GFR ≤ 30 mL/min/1.73 m ² : 4.53 (0.68–30.14)
Coronary a	artery disease	(yes vs. no)	[36]					
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.36 (1.10–1.69)
Helicobact	<i>er pylori</i> infe	ction (yes vs	. no) [36]					
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	4.75 (1.93–11.68)
Combination	on of digoxin	(yes vs. no)	[36]					
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.50 (1.19–1.88)
Combination	on of gemfib	rozil (yes vs.	no) [38]					
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	2.29 (1.61–3.25)
Creatinine	level (per 1 n	ng/dL increa	se) (yes vs.	no) [40]				
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.38 (1.09–1.74)
Creatinine	clearance < 6	50 mL/min (yes vs. no) [50]				
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.06 (1.01–1.12)
Combination	on of verapar	mil or diltiaz	em (yes vs.	no) [44]				
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	2.33 (1.82–2.98)
Mechanica	ıl valve implaı	nt (yes vs. no	o) [45]					
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.97 (0.43–9.07)
Substance vs. absen		ed as alcoho	ol depender	ice, drug de	pendence, c	r non-depei	ndent abuse, excluding t	tobacco use disorder (presence
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.41 (1.07–1.87)
Psychiatric	illness: defin	ed as schizo	phrenia, aff	ective psych	nosis, parano	oia, or other	nonorganic psychosis (p	presence vs. absence) [46]
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.20 (1.03–1.39)
	factors: defin nber able to		_		-		· · · · · · · · · · · · · · · · · · ·	living alone, no other house-
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.29 (1.12–1.48)



Supplementary Table 2. Continued

No. of studies		Cert	ainty asses	sment dom	Overall certainty in			
	Study design	Risk of bias	Indirect	Inconsis- tent	Imprecise	Publica- tion bias		Relative effect, OR (95% CI)
Liver disea	se (yes vs. no) [46]						
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.31 (0.99–1.74)
Venous thi	romboemboli	ism: includir	ıg deep veir	thrombosi	s (yes vs. no)	[36,46]		
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.21 (1.02–1.44)
Diabetes (y	es vs. no) [36	5,46]						
2	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	1.08 (0.96–1.21)
Anticoagu	lant treatmen	nt time (≤ 10	0 vs. > 100	d) [47-49]				
3	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	4.94 (2.66–9.17)
Combinati	on of thienop	yridines use	e (yes vs no)	[47]				
1	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	2.37 (0.75–7.44)
Long-term	ASA use at s	creening (ye	es vs. no) [5	0]				
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.47 (1.26–1.72)
Anemia (ye	es vs. no) [36,	,50]						
2	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.48 (1.10–1.98)
Diastolic B	P (for each 5	mmHg decr	ease to < 8	0 mmHg) (p	resence vs.	absence) [50)]	
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.10 (1.05–1.16)
History of	sleep apnea (presence vs	. absence) [50]				
1	Observa- tional	Serious	Not serious	Not serious	Not serious	Undetect- ed	⊕⊕⊕⊙ MODERATE	1.60 (1.22–2.10)
COPD (yes	vs. no) [50,52	2]						
2	Observa- tional	Serious	Not serious	Not serious	Serious	Undetect- ed	⊕⊕⊙⊙ LOW	2.01 (0.69–5.83)

GRADE Working Group grades of evidence:

- 1. High certainty: we are very confident that the true effect lies close to that of the estimate of the effect.
- 2. Moderate certainty: we are moderately confident in the effect estimate: the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.
- 3. Low certainty: our confidence in the effect estimate is limited: the true effect may be substantially different from the estimate of the effect.
- 4. Very low certainty: we have very little confidence in the effect estimate: the true effect is likely to be substantially different from the estimate of effect.

Explanations:

- 1. Risk of bias: The retrospective enrollment of patients may have introduced classification bias, certainty in evidence was downgraded for risk of bias.
- 2. Certainty in evidence was downgraded for high heterogeneity.
- 3. Imprecise: Certainty in evidence was downgraded for imprecision, given that the 95% CI suggests that there may be no association.