

Table S1: Data of the coagulation time in vitro of thrombin (n=5)

M: thrombin + ultrapure water; M+H: thrombin + PS H; M+Q: thrombin + PF saponins extract; coagulation did not occur in inactivated thrombin + PS H group;

| Groups | M | M+H | M+Q |
|----------|------------|------------|------------|
| Time (s) | 41.02±0.90 | 35.24±0.69 | 22.01±0.37 |

Table S2: Data of bleeding time (BT) in mice and Hemostasis effect of PS H and PF saponins extract (n=8)

Hemostatic effect = $100\% \times (\text{blank group BT} - \text{drug group BT})/\text{blank group BT}$

C: control(0.2% CMC-Na solution); H: PS H(H32, 32 mg/kg; H20, 20 mg/kg; H8, 8 mg/kg); Q: PF saponins extract (Q32, 32 mg/kg; Q16, 16 mg/kg); B: Yunnan Baiyao (1 g/kg); * compared with 0.2% CMC-Na (p<0.05)

| Groups | C | H32 | H20 | H8 | Q32 | Q16 | B |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|
| BT (s) | 11.53±0.24 | 5.61±0.75* | 5.79±1.05* | 7.36±0.86* | 5.05±0.70* | 8.81±0.79* | 7.53±1.39* |
| Hemostatic effect (%) | | 51.34 | 49.78 | 36.17 | 56.2 | 23.59 | 34.69 |

Table S3: Data of the 4 blood coagulation parameters of PS H and PF saponins extract in rats (n=8)

C: control(0.2% CMC-Na solution); H: PS H(H20, 20 mg/kg; H12.5, 12.5 mg/kg; H5, 5 mg/kg); Q: PF saponins extract (Q20, 20 mg/kg; Q10, 10mg/kg); G: Gongxuenin (80 mg/kg); B: Yunnan Baiyao (0.6 g/kg); * compared with 0.2% CMC-Na (p<0.05); Prothrombin time (PT); Thrombin time (TT); Activated partial thromboplastin time (APTT); Fibrinogen (FIB);

| Groups | C | H20 | H12.5 | H5 | Q20 | Q10 | G | B |
|-----------|------------|-------------|------------|------------|------------|------------|------------|------------|
| PT (s) | 9.91±0.31 | 10.95±0.18* | 9.01±0.14* | 10.69±0.31 | 9.38±0.11 | 9.09±0.96* | 10.13±0.35 | 10.18±0.33 |
| APTT(s) | 17.16±1.75 | 15.25±0.42 | 17.35±2.35 | 15.64±0.66 | 14.68±0.35 | 14.96±0.37 | 14.73±0.21 | 14.38±0.29 |
| TT (s) | 56.08±3.36 | 59.13±0.90 | 55.46±4.70 | 56.25±1.78 | 54.63±0.95 | 55.89±0.80 | 56.14±1.16 | 55.65±1.12 |
| FIB (g/L) | 1.11±0.21 | 2.05±0.15* | 1.88±0.16* | 1.63±0.09* | 2.46±0.20* | 1.77±0.12* | 1.97±0.09* | 1.99±0.14* |

Table S4: Data of the liver function and blood lipid parameters of PS H and PF saponins extract in rats (n=8). C: control(0.2% CMC-Na solution); H: PS H(H20, 20

mg/kg; H12.5, 12.5 mg/kg; H5, 5 mg/kg); Q: PF saponins extract; G: Gongxuenin (80 mg/kg); B: Yunnan Baiyao (0.6 g/kg); * compared with 0.2% CMC-Na ($p<0.05$); Alanine aminotransferase (ALT), Aspartate aminotransferase (AST), Albumin (ALB), Total cholesterol (CHOL), Triglyceride (TG), total proteins (TP), High density lipoprotein (HDL) and Low density lipoprotein (LDL)

| Groups | | C | H20 | H12. 5 | H5 | Q20 | Q10 | G | B |
|--------------|--|--------------|----------------|---------------|----------------|-----------------|---------------|--------------|--------------|
| ALT U/L | | 16. 50±1. 71 | 25. 67±3. 70 | 27. 20±1. 85* | 26. 67±3. 14 | 30. 25±3. 22* | 31. 18±2. 26* | 25. 67±4. 80 | 24. 80±2. 06 |
| AST U/L | | 74. 00±3. 49 | 104. 00±9. 63* | 78. 86±3. 54 | 104. 36±9. 28* | 111. 00±17. 13* | 96. 88±10. 18 | 83. 71±5. 48 | 81. 25±7. 88 |
| TP g/L | | 51. 23±2. 10 | 56. 23±2. 70 | 52. 54±1. 63 | 57. 40±1. 85 | 50. 40±3. 45 | 56. 33±1. 92 | 52. 26±2. 29 | 58. 68±5. 64 |
| ALB g/L | | 28. 89±1. 15 | 31. 73±1. 13 | 30. 35±0. 58 | 32. 77±0. 92 | 29. 50±1. 85 | 30. 61±0. 7 | 29. 14±0. 75 | 32. 48±1. 84 |
| CHOL m mol/L | | 1. 57±0. 12 | 1. 72±0. 09 | 1. 86±0. 14 | 1. 68±0. 11 | 1. 51±0. 16 | 1. 40±0. 08 | 1. 92±0. 13 | 1. 80±0. 18 |
| TG m mol/L | | 0. 09±0. 02 | 0. 25±0. 06 | 0. 09±0. 01 | 0. 28±0. 09 | 0. 18±0. 04 | 0. 12±0. 02 | 0. 13±0. 02 | 0. 16±0. 05 |
| HDL m mol/L | | 0. 28±0. 02 | 0. 29±0. 01 | 0. 35±0. 02 | 0. 29±0. 01 | 0. 28±0. 04 | 0. 26±0. 02 | 0. 35±0. 03 | 0. 33±0. 03 |
| LDL m mol/L | | 0. 10±0. 01 | 0. 14±0. 02 | 0. 12±0. 01 | 0. 11±0. 01 | 0. 11±0. 01 | 0. 09±0. 01 | 0. 11±0. 01 | 0. 12±0. 02 |