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K $EVWUDFW 2EMHFWLYH To evaluate the effectiveness and economic value between haemocoagulase agkistrodon and aminocaproic acid and sodium chloride in perioperative inpatients. 0HWKRGV A retrospective database study was conducted in which the clinical e cacy and direct medical cost of perioperative inpatient admitted to tertiary hospitals using haemocoagulase agkistrodon or aminocaproic acid and sodium chloride according to the SuValueﬁ database from January 1st, 2016 to December 31st, 2020. e patients were divided into haemocoagulase agkistrodon group and aminocaproic acid group according to the di erent

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interventions. After matching with propensity score, the effectiveness and economic differences between the two groups were compared. 5HVXOWV A total of 367 patients were included in each of the two groups. In terms of effectiveness, haemocoagulase agkistrodon significantly reduced estimated total blood loss and length of hospital stay compared with aminocaproic acid (P<0.01). There were no significant differences in transfusion rate and transfusion volume between the two groups (P>0.05), and the preoperative and postoperative prothrombin time, thrombin time, activated partial thrombin time, fibrinogen level were within the normal range, which did not affect the coagulation function of patients. In terms of economic value, the total cost of hospitalization and hemostasis, procoagulant drugs and hemostatic material cost per capita in haemocoagulase agkistrodon group were lower than those in aminocaproic acid group (P<0.05). &RQFOXVLRQ Effectiveness and hemostasis economic value of haemocoagulase agkistrodon in perioperative inpatients are superior to that of aminocaproic acid.

K.H\ZRUGV Haemocoagulase agkistrodon; Aminocaproic acid and sodium chloride; Perioperative period; Bleeding; Propensity sore matching; Effectiveness; Economy; Real-world study

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'PXMFS "+ "INBE 5 1IVMM ., FU BM .FUB BOBMZTJT PG UIF BTTPDJBUJPO CFUXFFO QSFPQFSBUJWF BOBFNJB BOE NPSUBMJUZ BGUFS TVSHFSZ<+> #S + 4VSH %0* CKT

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#PTCPPN ++ ,MBOEFSNBO 3# ;JKQ . FU BM *ODJEFODF SJTL GBDUPST BOE PVUDPNF PG USBOTGVTJPO BTTPDJBUFE DJSDVMBUPSZ PWFSMPBE JO B NJYFE JOUFOTJWF DBSF VOJU QPQVMBUJPO B OFTUFE DBTF DPOUSPM TUVEZ<+> 5SBOTGVTJPO %0* USG

$PSSBM . 'FSLP /)PMMNBOO 4 FU BM)FBMUI BOE FDPOPNJD PVUDPNFT BTTPDJBUFE XJUI VODPOUSPMMFE TVSHJDBM CMFFEJOH B SFUSPTQFDUJWF BOBMZTJT PG UIF 1SFNJFS 1FSTQFDUJWFT %BUBCBTF<+> $MJOJDPFDPO 0VUDPNFT 3FT %0* $&03 4

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QBUJFOUT CZ BVUPNBUJD TVSWFJMMBODF<+> 5IF $IJOFTF +PVSOBM
PG $MJOJDBM 1IBSNBDPMPHZ > %0*