# Persistent Withdrawal Occlusion (PWO) Algorithm - CVADs



#### Difficulty aspirating?

Patient manoeuvres:

the lumen volume with

INSTIL

m

urokinase

EITHER

Cough Deep breath Valsalva Turn head

Roll/shrug shoulders Stand up Flat on bed, head of bed down

IF UNSUCCESSFUL-Go to

60 to

## with 10ml 0.9%NaCl in 10ml syringe. Do not use extra force. IF UNSUCCESSFUL IS THIS CVAD ESSENTIAL? NO. Remove Go to GO TO

#### UROKINASE

but must be prescribed).

(Both are acceptable,

<u>alteplase.</u>

OR

Use 5000IU/ml solution. Leave for 60 min. IF UNSUCCESSFUL-

Instil a *repeat* volume of urokinase 5000IU/ml solution. Leave for further 24hr.

Then GO TO (4)

## (4) Still difficulty aspirating?

Consider CXR +/or linogram.

Give 'fluid challenge' of 250ml 0.9%NaCl over 15min (where not contra-indicated by fluid/electrolyte status). IF SUCCESSFUL-The fluid challenge should be epeated prior to each treatment. STOP if patient discomfort.

Then GO TO (4)

ALTEPLASE
Use 1mg/ml solution.
Leave for 30min.
IF UNSUCCESSFULLeave for further 90min.
IF UNSUCCESSFULInstil a repeat volume of alteplase 1mg/ml solution.
Leave for further 2hr.

OR

Approved by CET CVAD Team: January 2023 | Next review: January 2025