**Flushing Regimens for Patients > 10 Kg**

*Aspirate and flush CVLs prior to use to ensure patency*

**Note: Each lumen of a double or triple lumen catheter should be cared for as a separate catheter.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CVC Device** | **Flushing Volume** | **Minimum Flushing Frequency** | **After Blood Transfusion** | **Home Care Regimen** |
| **2 Fr PICC** | 1-2 ml normal saline before and after meds | Continuous Heparinized fluids at 2ml/hr | ***Do not infuse blood through these catheters. Do not draw blood through these catheters*** | Continuous Heparinized fluids |
| **2.6 Fr or larger PICC** | 3ml normal saline  followed by  2 ml of 10 unit/ml heparin | Every 8 hours | *Flush with 3 ml normal saline*  *followed by*  *2ml of 10 unit/ml heparin*  ***(2.6 DL MedComp PICC may aspirate/infuse through larger lumen only)***  ***Label adapter to indicate need for change within 24 hours.*** | Every 24 hours with  3 ml normal saline followed by  2ml of 100 unit/ml heparin |
| **Implanted Port greater**  **than 10 kg** | 10ml normal saline  followed by  5ml of 10 unit/ml heparin  ---------------------  10ml normal saline followed by  5ml of 100 unit/ml heparin for de-accessing and monthly flush | Every 8 hours when accessed  -----------------  Monthly when not in use | 10 ml normal saline followed by  5ml of 10 units/ml heparin  ***Label adapter to indicate need for change within 24 hours.*** | Every 24 hours with 10 ml saline followed by  5ml of 100 unit/ml heparin  ----------------  10 ml normal saline followed by  5ml 100 unit/ml heparin  For de-accessing and monthly flush |
| **Hickman/Broviac** | 3ml normal saline  followed by  2ml of 10 unit/ml heparin | Every 8 hours | 3ml normal saline  followed by  2ml of 10 unit/ml heparin  ***Label adapter to indicate need for change within 24 hours.*** | Every 24 hours with  3ml normal saline followed by  2 ml of 100 unit/ml heparin |
| **Femoral/Jugular/Subclavian** | 3ml normal saline followed by  2ml of 10unit/ml heparin | Every 8 hours | 3ml normal saline followed by  2ml of 10 unit/ml heparin  ***Label adapter to indicate need for change within 24 hours.*** | Every 24 hours with  3ml normal saline followed by  2ml of 100 unit/ml heparin |

*When a catheter is used more often than every 4 hours, consider using saline only flushes*

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**Central Line Flushing Regimen for Patients ≤ 10Kg**

*Ensure catheter patency prior to use*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CVC Device** | **Flushing Volume** | **Minimum Flushing Frequency** | **After Blood Transfusions** | **Home Care** |
| **2 FR PICC** | 1-2 ml normal saline before and after meds | Continuous Heparinized Fluids at 2 ml/hr | ***Do not infuse blood through or draw blood through these catheters*** | Continuous Heparinized Fluids |
| **2.6 FR or larger PICC;**  **Hickman/ Broviac;**  **Femoral/Jugular/Subclavian and Double Lumen UVC** | 1-2ml normal saline  followed by  2ml of 1unit/ml heparin | Every 6 hours | Flush with 1-2 ml normal saline followed by  2ml of 1 unit/ml heparin  ***(2.6 DL MedComp PICC may aspirate or infuse through the larger lumen only)***  ***Label adapter to indicate need for change within 24 hours*** | 2ml normal saline followed by  1 ml of  10 unit/ml heparin  every 12 hours |
| **UAC** | 1 ml normal saline after lab draws | Continuous Heparinized Fluids at  **1 ml/hr for < 800g**  **1.5 ml/hr for > 800g** | ***Do not infuse blood through*** | NA |
| **Implanted Port**  **Less than 10 kg** | Refer to flushing chart specific for implanted ports ≤ 10kg | Refer to flushing chart specific for implanted ports ≤10kg | Refer to flushing chart specific for implanted ports ≤10kg  ***Label adapter to indicate need for change within 24 hours.*** | Refer to flushing chart specific for implanted ports ≤ 10kg |

***Note: Each lumen of a double or triple lumen catheter should be cared for as a separate catheter.***

**NOTE: Use 50% less flush volumes for Extremely Low Birth Weight (ELBW) patients**

**NOTE: For all heplocked central lines & midlines not in use, flush every 6 hours with 2 ml of 1 unit/ml heparin**

*When a catheter is used more often than every 4 hours, consider using saline only flushes.*

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**Heparin Flushing Recommendations Implanted Ports in Patients ≤ 10 kg**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Weight in**  **kg** | **Heparin flush for deaccessing and when**  **not in use** | | **Heparin flush for outpatient daily infusions (accessed continuously), flush every**  **24 hours post daily infusion** | **Heparin flush for inpatient (accessed continuously),**  **flush every 6 hours** |
|  | **Accessed more often than weekly** | **Accessed weekly or less often, and monthly when not in use** |  |  |
| **< 5kg** | 5 ml normal saline followed by  3 ml **10** units/ml heparin | 5 ml normal saline followed by  3 ml 100 units/ml heparin | 5 ml normal saline followed by  3 ml **10** units/ml heparin | 5 ml normal saline followed by  3 ml **1** unit/ml heparin |
| **5-10 kg** | 5 ml normal saline followed by  3 ml **100** units/ml heparin | 5 ml normal saline followed by  3 ml **100** units/ml heparin | 5 ml normal saline  followed by  3 ml **100** units/ml heparin | 5 ml normal saline followed by  3 ml **10** unit/ml heparin |
| **NOTE:** For ports locked with 100 units/ml heparin, aspirate 3 ml to clear heparin and discard waste | | | | |
| **NOTE:** When flushing with normal saline use a pulse flush to create turbulence in port to flush well | | | | |