



Space^{plus} Perfusor[®] TCI Syringe Pump Training Record

The personal data you provide (names, signatures) will not be transmitted to B. Braun Medical Ltd or any third party unless you explicitly indicate that this is your wish. The data collected will be stored in line with your organisation's privacy policy.

Hospital:

Ward:

Role:

Name:

Please scan the QR code
for B. Braun Space^{plus} Pump
training videos.



We
PROTECT
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the
HEALTH
of people
around the world.

Competency Self Assessment

The purpose of these scenarios is to establish, through observation and questioning, that you can safely initiate, maintain, observe and stop the prescribed infusion therapy.

	Sign	Date
<p>Attach and detach the pump clamp to the infusion stand</p> <ul style="list-style-type: none"> ■ Pull back the ring on the pump clamp to use the quick release mechanism ■ Position the clamp on rail or infusion stand ■ Tighten the clamp by turning clockwise 		
<p>Attach and detach the pump to the clamp</p> <ul style="list-style-type: none"> ■ Slide the pump down onto the pump clamp. The pump is securely locked when you hear a click ■ To connect a second TCI pump, slide the pumps together using the guide rails on the top and bottom of each pump ■ The pumps are securely locked in place when you hear a click ■ To release the pump, press the release button on the left-hand side of the top pump ■ Slide the bottom pump forwards ■ To remove the top pump from the clamp, press the grey button and slide the pump up, use the quick release mechanism 		
<p>Switching on</p> <ul style="list-style-type: none"> ■ Press and release the on/off button to turn on ■ The pump will start its self-test 		
<p>Syringe loading</p> <ul style="list-style-type: none"> ■ Open the pump screen and then open the syringe bracket by pulling towards you and turning fully to the right ■ Insert the syringe with the wings upright, ensuring that the syringe wings are between the syringe holder and the pump housing ■ Hold the syringe barrel in place with one hand and return the syringe bracket to the closed position with the other ■ Confirm the syringe manufacturer and size on the touch screen or select appropriate syringe from complete list ■ The driver head will close automatically ■ Select new patient ■ To select the appropriate drug press the drug button on the touch screen ■ Select drug choice and concentration 		

Competency Self Assessment

	Sign	Date
<p>Setting up the TCI infusion</p> <ul style="list-style-type: none"> ■ Select new patient ■ To select the appropriate drug press the drug button on the touch screen ■ Select drug choice and concentration ■ Select desired model and target site if required ■ Input the required patient data ■ If using the Eleveld model, please confirm the use of opioids ■ Select the infusion button, the target concentration can be adjusted here if required ■ Review the infusion data ■ Prior to commencing, press the review button to observe the induction bolus amount ■ Start the infusion 		
<p>Standby function</p> <ul style="list-style-type: none"> ■ To place the pump into standby mode prior to commencing the therapy, press the power button and select yes to enter standby ■ Adjust standby time as required ■ Press to exit standby and press start to start the infusion 		
<p>Changing the target concentration</p> <ul style="list-style-type: none"> ■ To titrate the target in small increments, use the directional arrows which will increase or decrease the target by one decimal place per press ■ Confirm new target ■ Alternatively for larger incremental changes, press the target value followed by numerical digit in the unit column you would like to alter ■ Select the numerical change from the number tabs ■ Press to confirm change ■ To visualise the concentration in effect and plasma site in graph format, press the change view button ■ The graph displays a half an hour window, showing 10 minutes previous delivery and 20 minutes future delivery ■ Press change view a second time to visualise the syringe delivery screen which shows a visual representation of the syringe with its fill level, syringe type and syringe size ■ Press the change view button to switch between the delivery screen, graph format and the syringe view screen 		
<p>Delivery screen variable parameters</p> <ul style="list-style-type: none"> ■ The two infusion parameters displayed on the delivery screen, depend on the user selection ■ To change a parameter, press on one of the two values and select the parameter required (for example decrement time) 		

	Sign	Date
<p>Alarm priorities</p> <ul style="list-style-type: none"> ■ The pump distinguishes between two types of alarm priority ■ High priority RED alarms – infusion has stopped, for example, syringe empty, an occlusion alarm or battery empty ■ Upon the visual and audible red alarm, press the mute button, observe the on-screen information, address the issue, and confirm. Resume infusion when safe to do so ■ Lower priority YELLOW alarms – such as notifications and pre alarms, for example, infusion almost ended, syringe almost empty or battery almost empty ■ Upon the visual and audible yellow alarm, press the mute button to silence, observe the notification and take the required action 		
<p>Totals and information</p> <ul style="list-style-type: none"> ■ To view totals and information, press the home button, press totals and info on the touch screen, here you can view totals, infusion status and infusion history ■ This information can be accessed during the infusion or on completion of the therapy 		
<p>Replacing the syringe mid therapy</p> <ul style="list-style-type: none"> ■ Press stop to stop the infusion ■ Pull and release the syringe bracket, the drive head will open automatically ■ Pull the syringe bracket towards you and turn fully to the right ■ Open the display screen and remove the syringe. It is not necessary to wait for the drive head to fully extend to perform this step ■ Replace the syringe, confirm syringe size and type, and press to the resume infusion ■ Any decrease in target concentration will be accounted for by the TCI program 		
<p>End of therapy and switching off the device</p> <ul style="list-style-type: none"> ■ To initiate wake up, select the set to zero button ■ Confirm set to zero ■ Estimated decrement time can be observed on the run screen or by selecting change view to visualise in graph format ■ On the completion of therapy, press the stop button, followed by end infusion, and confirm ■ Open the syringe bracket, the drive head will open automatically ■ Open the display screen and remove the syringe ■ Press and hold the on/off button to turn the TCI pump off ■ The drive head will automatically close 		

Declaration

Please read and confirm that you understand the below statements.

These statements are designed to indicate competence to use this device. Responsibility for use remains with the user, so if you are in any doubt regarding your competence to use the Space^{plus} Perfusor[®] TCI Syringe Pump, you should seek education to bring about improvement. Various methods include, self-directed learning, coaching and if required, further formal training may be initiated. Consider local resources, product operating manual, short instructions for use, medical devices ward file, the intranet, discussion with colleagues, medical device coordinators or the wards key trainer.

- Target Controlled Infusion (TCI) should only be performed by experienced anaesthetists being familiar with the principles of TCI and properly trained in using the present device
- The use of TCI with B. Braun Space^{plus} does not limit the responsibility of the anaesthetist for administration of drugs. You need to be fully aware of the available literature for any parameter set/used in association with a drug and need to refer to the prescribed information for rate and dosing limits
- Pharmacokinetic and pharmacodynamic interactions among anaesthetic drugs are known, but are not taken into account into the calculation of the plasma and effect site concentrations. They have to be taken into account by the user
- In particular, the user must be aware that starting the TCI will result in the automatic infusion of a pre-calculated bolus dose followed by an infusion to achieve the selected target concentration
- It is essential that the user verifies that the patient characteristics and the selected target concentration, as well as the resulting dosages, conform to the prescribing information of the UK
- B. Braun has verified the accuracy of the mathematical model implementation, the usability, as well as pump delivery accuracy
- TCI with B. Braun Space^{plus} is only allowed with Space^{plus} Perfusor[®]
- While using TCI an appropriate patient monitoring is mandatory
- Take care of using the right dilution/concentration of the drug and make sure the right dilution is selected at the pump
- Never administer Propofol or Remifentanil by a second infusion, unless using TCI
- It is possible to completely switch off the TCI mode to avoid the use of TCI accidentally

I certify that I am aware of my professional responsibility for continuing professional development and realise that I am accountable for my actions. With this in mind I make the following statement:

I am competent to use the Space^{plus} Perfusor[®] TCI Syringe Pump, and I am aware of the support material available to me.

Name
(Print)

Date

Signed

Adverse events should be reported. Reporting forms and information can be found at www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store. Adverse events should also be reported to B. Braun Medical Ltd (tel 0800 2980299).