



Acacium Group

Changing the Bionector

Procedure Reference | SOP TPN 05

Version | V4.0

Procedure Name	Changing the Bionector
Purpose of Document	To ensure that the correct preparation, procedure and outcome are achieved by implementing a consistent and systematic approach to effective change of the Bionector
Target Audience	All appropriately trained nurses
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Equality Impact Assessment (EIA) Form	Acacium Group is committed to Equality, Diversity and Inclusion and in line with our values, we strive to ensure that everyone that is part of the Acacium community is not disadvantaged or discriminated against given their individual need or characteristics. To support this, an Equality Impact Assessment has been undertaken on this policy/procedure. This information is held centrally and can be requested from the Clinical Governance Team.
About Acacium Group	Details of all Acacium Group trading companies that this policy applies to are detailed within Appendix A

Document History			
Version	Date	Changes made/comments	By whom
V1	Dec 2016	Implementation of document history page	KNF/SJ
V2	Nov 2019	3 Yearly Review	Clinical Advisory Group
V2.1	Nov 2020	Rebrand	CC
V3	Mar 2023	Review and updated	Clinical Advisory Group
V4	Jan 2024	Rebrand	Clinical Advisory Group

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1. Introduction

When receiving TPN it is common practice to have needleless connector such as the bionector in place to reduce the risk of needle stick injury and provides an effective barrier against microbial ingress to reduce catheter related blood stream infections. Clients depending on TPN in the community setting require health and safety to be considered. Changing the bionector can significantly increase the risk of infection for the client and strict ANTT approach is required. Bionectors are usually changed at least weekly – this will be documented in the client's care plan.

2. Aim

To provide guidance in the effective change of the bionector.

3. Who needs to be aware of this procedure

All Acacium Group nurses who are trained and competent to conduct the procedure.

4. Hazards/complications

- Infection of site
- Line sepsis
- Air Embolism
- Blood loss
- Disconnections

5. Assessment of need

Assessment of care needs should be ongoing basis and give consideration to the possible hazards/complications above as well as considering infection, overall health and nutritional status.

6. Consent

Please read the Acacium Group Policy on consent thoroughly and ensure valid consent has been gained.

Please now ensure you understand the Consent Policy and Mental Capacity Act in full.

7. Client and relatives/carers involvement

Initially the need for TPN may be distressing to the relatives or care workers of the client. Where possible, they should be fully consulted and informed about the care required and involved. It is important to allow family members to feel involved with the care provision.

8. Client information

Detailed information should be provided on what is required to effectively administer the TPN safely. This should be in documented in the care plan and clients may also have an individual patient information leaflet if required.

9. Equipment

- 2 x alcohol wipes
- New bionector
- Non-Sterile gloves

10. Procedure

Changing the Bionector

	Action	Rationale
1.	Gather the equipment and prepare a clean/sterile working environment	To minimise the risk of cross infection
2.	Prepare the client and obtain consent.	To gain consent
3.	Wash hands with bactericidal soap and water and dry them with a paper towel	To minimise the risk of cross infection.
4.	Inspect the insertion site of the device	To detect any signs of inflammation, infiltration, if present take appropriate action
5.	Ensure integral clamp of central venous catheter is closed	To prevent blood loss and infection
6.	Wash hands thoroughly and dry with a paper towel	Bacteria grows rapidly on moist wet hands.
7.	Put on non-sterile gloves	To minimise the risk of cross infection
8.	Remove the lid on new Bionector	To prepare for changing it.
9.	Open sterile alcohol wipe	To enable sterilisation of the end of the line
10.	Hold the central venous catheter securely in one hand above the hub, avoiding contact with the end to be exposed using an ANTT approach. Remove the old Bionector.	To remove the old bionector and replace with a new sterile bionector to reduce the risk of infection
11.	Clean around the end of the central venous catheter. Remove any debris from Luer thread. Allow to dry for 30 seconds.	To clean and remove and contamination
12.	Screw the new Bionector onto the central venous catheter.	To allow needleless access
13.	Remove the Bionector protector by flexing it upwards and downwards.	To allow for use.
14.	Secure the central venous catheter	To prevent displacement of the CVAD
15.	Remove gloves and dispose of clinical waste.	Safe disposal of clinical waste.

NB:

- Ensure that you do not over tighten the TPN onto the Bionector as this may cause the Bionector to crack and therefore not provide a sterile connection.
- Never allow a needle to be used on the Bionector as this will damage it.
- Caps are not necessary on the Bionector.

11. Associated Policies / SOPs

Policies

CLIN 03 Medicines Management Policy

CLIN 06 Consent Policy

CLIN 07 Infection Prevention Policy
CLIN 42 Management of TPN Policy
ORG 03 Health and Safety Policy

SOPs

SOP TPN 01 Connection of TPN
SOP TPN 02 Disconnection of TPN
SOP TPN 03 Changing a Central Venous Access Device (CVAD) Dressing
SOP TPN 04 Heplocking of the Central Venous Access Device (CVAD)

12. References

- Great Ormond Street Hospital for Children Home Parenteral Nutrition Teach Pack - <https://www.gosh.nhs.uk/conditions-and-treatments/procedures-and-treatments/introduction-parenteral-nutrition-home/>
- Nutrition Support in adults NICE Clinical Guideline no. 32 (2006); Updated 2017
- Infection Control: prevention of healthcare-associated infection in primary and community care NICE Clinical Guidelines no. 2 (2003); Updated February 2017
- [Central venous catheter - dressing change: MedlinePlus Medical Encyclopedia](#)
- [Bionector – The Neutral Needle Free Connector | Vygon \(UK\)](#)

Appendix A: About Acacium Group

Acacium Group consists of a number of trading companies, each providing services within core niche areas of the health and social care industries. Therefore, as this document is a Group Policy, the Policy herein applies to all trading companies detailed below:

 Part of Acacium Group	 Part of Acacium Group
 Part of Acacium Group	 Part of Acacium Group