

DALI®

Effective lipoprotein apheresis with DALI®



Home > Healthcare Professionals > Therapeutic apheresis > Products > DALI

DALI® lipoprotein apheresis is used to treat patients with severe hypercholesterolaemia and/or elevated levels of lipoprotein(a) [Lp(a)]. The name DALI® stems from the treatment's function: the direct adsorption of lipoproteins.

The objective is to reduce levels of low-density lipoprotein cholesterol (LDL-C) and Lp(a). This prevents atherosclerosis progression and can even lead to the disease's regression.

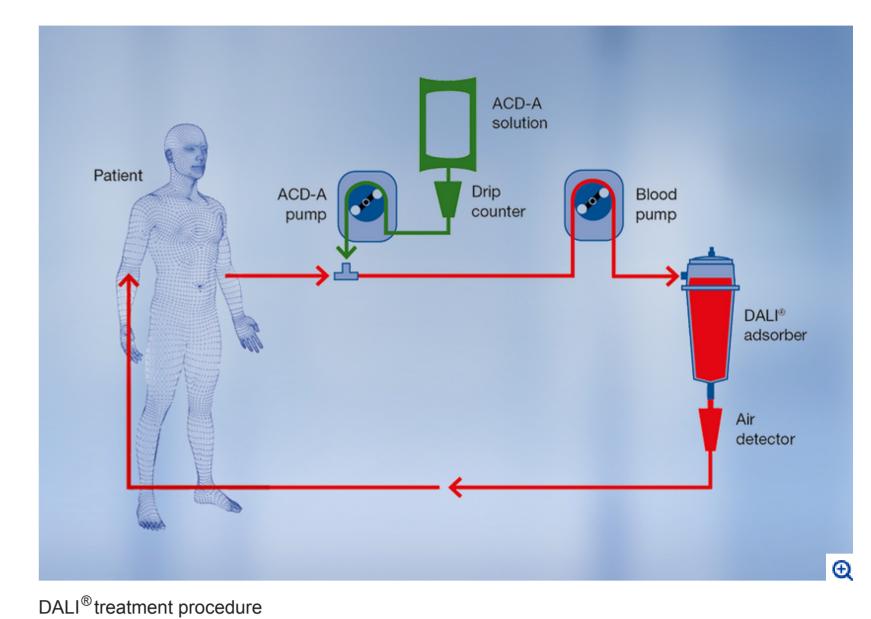
DALI[®] lipoprotein apheresis

DALI® treatment procedure

Venovenous or AV fistula access can be used during lipoprotein apheresis therapy. The blood is drawn from a vein in the patient's arm and passed through the adsorber. The central component of DALI® lipoprotein apheresis is the adsorber column. The carrier material in the column selectively binds LDL-C and Lp(a) from whole blood 1. Other blood components, such as HDL cholesterol, albumin and immunoglobulins, are only removed in small amounts or hardly at all^{2,3}. The purified blood is then returned to the patient via the other arm.

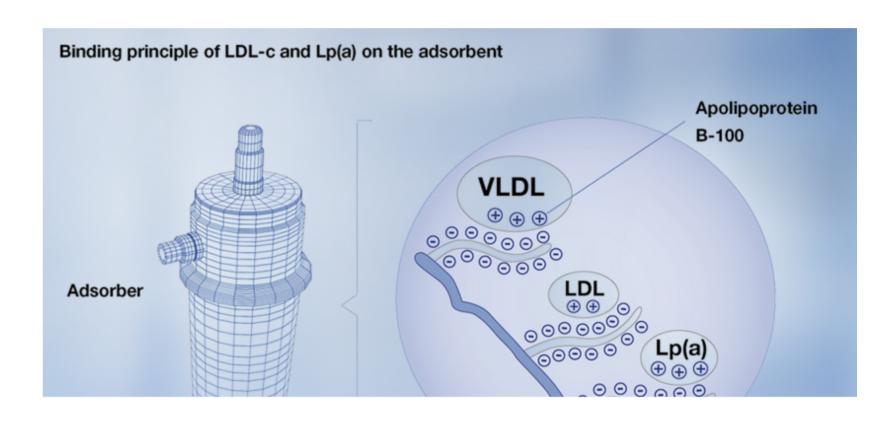
The reduction of LDL-C and Lp(a) levels can be individually adapted to a patient's therapy needs by means of different adsorber sizes (DALI® 500, DALI® 750, DALI® 1000, DALI[®] 1250).

During a single treatment, levels of LDL-C can be reduced by up to 70% and Lp(a) by up to 65%.3



Principle of lipoprotein binding to DALI® adsorber

The binding of LDL-C and Lp(a) is characterised by electrostatic interaction between the adsorber material's negatively-charged polyacrylic acid and the positively-charged apoliproprotein B-100 in the LDL-C, very low density lipoprotein (VLDL) and Lp(a).

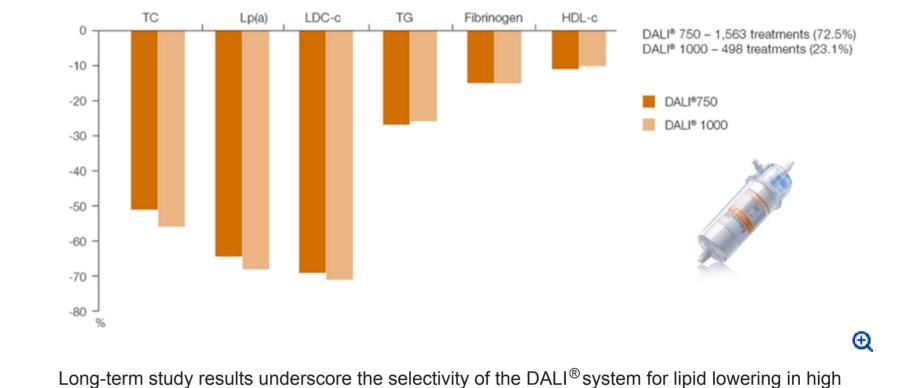


The receptor-like binding of polyacrylic acid and apolipoprotein B-100 is electrostatic.

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Benefits of treatment with DALI®

- 1. Highly selective LDL-C and Lp(a) removal⁴ 2. Significantly effective in the reduction of LDL-C and Lp(a)^{3, 5}
- 3. Short treatment time
- 4. Simple treatment procedure 2, 4, 6



double-digit levels⁷

Anticoagulation of DALI® Citrate solution (ACD-A) is used as an anticoagulant during priming and continuously throughout the treatment

procedure. Heparin is used in the priming solution and is recommended as an initial patient bolus prior to treatment. A further reason for using ACD-A solution is that it reduces both the platelet and complement activation induced by the DALI® treatment.

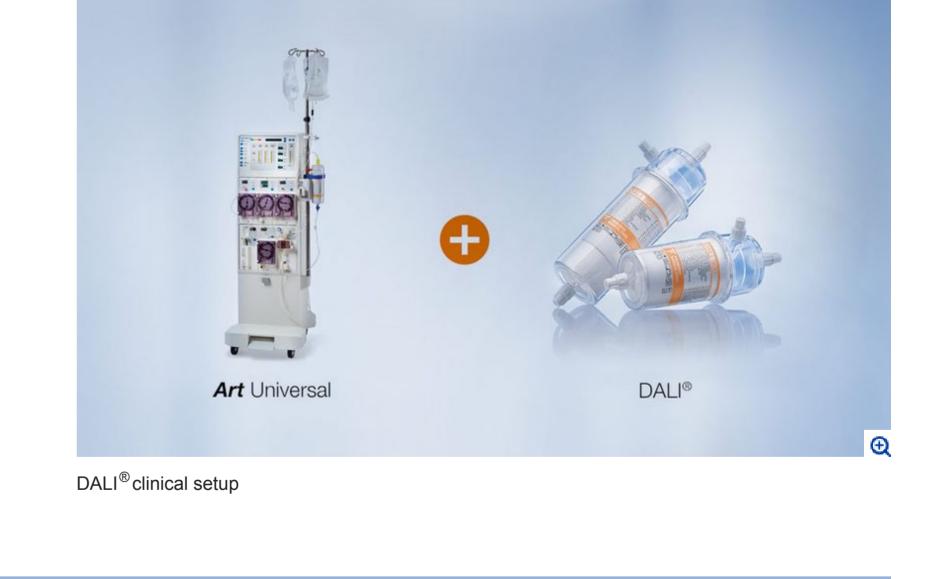
ACE inhibitors (e.g., Enalapril, Ramipril, Lisinopril, etc.), as well as combination drugs which contain ACE inhibitors

Contraindications

the contact activation of the prekallikrein system, which is induced by the negatively-charged adsorber surface. This can also apply to other drugs that influence bradykinin regulation (synthesis or inhibition of metabolism, e.g. Neprilysin inhibitors). DALI[®] is not contraindicated for use with AT₁ inhibitors.

(e.g., Sincronium, Triveram, Cibadrex, Capoten) are contraindicated. This is due to the bradykinin release caused by

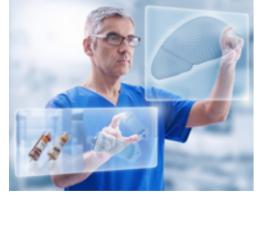
Clinical setup DALI® can be carried out with the haemoadsorption machine *Art* Universal.



All contact information >

Lipoprotein apheresis >

Related therapies



1. Bosch T, Keller C; Therapeutic Apheresis and Dialysis June 2003; 7(3): 341–4. 2. Bosch T, Therapeutic Apheresis Aug. 2001; 5(4): 239-43. 3. Ramlow W et al.; Efficacy of lipid reduction with DALI® and MONET® apheresis techniques – results from a multicenter observational study; 4th Dresden International Symposium on Therapeutic Apheresis, 2016.

4. Bosch T et al.; Therapeutic Apheresis and Dialysis June 2006; 10(3): 210-18.

5. Julius U et al.; Therapeutic Apheresis and Dialysis Apr. 2013; 17(2): 179-84. 6. Kozik-Jaromin J et al.; Safety aspects of lipoprotein apheresis using DALI® and MONET® – results from a multi-center observational study; 4th Dresden International Symposium on Therapeutic Apheresis, 2016.

7. Modified from Bosch et al, Journal of Clinical Apheresis 2002; 17(4): 161–9

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