

Leitlinienreport

Appendix I: Recherche-Strategie

Recherche-Strategie Medline (via PubMed):

Keywords	Suchstrategie
Analysis blood gas and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ("blood gas analysis"[MeSH Terms] OR ("blood"[All Fields] AND "gas"[All Fields] AND "analysis"[All Fields]) OR "blood gas analysis"[All Fields])
Echocardiography transesophageal and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("echocardiography"[MeSH Terms] OR "echocardiography"[All Fields]) AND transesophageal[All Fields])
Hemodynamic monitoring and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("haemodynamic"[All Fields] OR "hemodynamics"[MeSH Terms] OR "hemodynamics"[All Fields] OR "hemodynamic"[All Fields]) AND monitoring[All Fields])

<p>Lung water extravascular and Cardiac surgery postoperative</p>	<p>((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ((("lung"[MeSH Terms] OR "lung"[All Fields]) AND ("water"[MeSH Terms] OR "water"[All Fields] OR "drinking water"[MeSH Terms] OR ("drinking"[All Fields] AND "water"[All Fields]) OR "drinking water"[All Fields]) AND extravascular[All Fields])</p>
<p>Pulse contour analysis and Cardiac surgery postoperative</p>	<p>((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (((("pulse"[MeSH Terms] OR "pulse"[All Fields] OR "heart rate"[MeSH Terms] OR "heart"[All Fields] AND "rate"[All Fields]) OR "heart rate"[All Fields]) AND contour[All Fields] AND ("analysis"[Subheading] OR "analysis"[All Fields])) OR ((("pulse wave analysis"[MeSH Terms] OR ("pulse"[All Fields] AND "wave"[All Fields]) AND "analysis"[All Fields]) OR "pulse wave analysis"[All Fields]) OR (pulse wave velocities[All Fields] OR pulse wave velocity[All Fields]) OR (pulse transit time[All Fields] OR pulse transit times[All Fields])))</p>
<p>Pulmonary artery catheterization and Cardiac surgery postoperative</p>	<p>((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ((("pulmonary artery catheterisation"[All Fields] OR "catheterization, swan-ganz"[MeSH Terms] OR ("catheterization"[All Fields] AND "swan-ganz"[All Fields]) OR "swan-ganz catheterization"[All Fields] OR ("pulmonary"[All Fields] AND "artery"[All Fields] AND "catheterization"[All Fields]) OR "pulmonary artery catheterization"[All Fields])</p>
<p>Venous pressure central and Cardiac surgery</p>	<p>((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND</p>

postoperative	"surgery"[All Fields]) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND (("venous pressure"[MeSH Terms] OR ("venous"[All Fields] AND "pressure"[All Fields]) OR "venous pressure"[All Fields]) AND central[All Fields])
Central venous saturation and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND (central[All Fields] AND ("veins"[MeSH Terms] OR "veins"[All Fields] OR "venous"[All Fields]) AND saturation[All Fields])

Keywords	Suchstrategie
Plasma substitutes and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND ("plasma substitutes"[Pharmacological Action] OR "plasma substitutes"[MeSH Terms] OR ("plasma"[All Fields] AND "substitutes"[All Fields]) OR "plasma substitutes"[All Fields])
Plasma volume and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND

	("plasma volume"[MeSH Terms] OR ("plasma"[All Fields] AND "volume"[All Fields]) OR "plasma volume"[All Fields])
Molecular weight and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ("molecular weight"[MeSH Terms] OR ("molecular"[All Fields] AND "weight"[All Fields]) OR "molecular weight"[All Fields])
Isotonic solutions and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ("isotonic solutions"[MeSH Terms] OR ("isotonic"[All Fields] AND "solutions"[All Fields]) OR "isotonic solutions"[All Fields])
Crystalloids and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (crystalloids[All Fields] OR ("crystalloid solutions"[Supplementary Concept] OR "crystalloid solutions"[All Fields] OR "crystalloid"[All Fields]))
Colloids and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("colloids"[Pharmacological Action] OR "colloids"[MeSH Terms] OR "colloids"[All

	Fields]) OR ("colloids"[Pharmacological Action] OR "colloids"[MeSH Terms] OR "colloids"[All Fields] OR "colloid"[All Fields]) OR colloidal[All Fields])
Hydrocolloids and cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("colloids"[Pharmacological Action] OR "colloids"[MeSH Terms] OR "colloids"[All Fields] OR "hydrocolloids"[All Fields]) OR ("colloids"[Pharmacological Action] OR "colloids"[MeSH Terms] OR "colloids"[All Fields] OR "hydrocolloid"[All Fields]) OR hydrocolloidal[All Fields])
Hydroxyethylstarch and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("hydroxyethyl starch derivatives"[MeSH Terms] OR ("hydroxyethyl"[All Fields] AND "starch"[All Fields] AND "derivatives"[All Fields]) OR "hydroxyethyl starch derivatives"[All Fields] OR "hydroxyethylstarch"[All Fields]) OR ("hydroxyethyl starch derivatives"[MeSH Terms] OR ("hydroxyethyl"[All Fields] AND "starch"[All Fields] AND "derivatives"[All Fields]) OR "hydroxyethyl starch derivatives"[All Fields] OR ("hydroxyethyl"[All Fields] AND "starch"[All Fields]) OR "hydroxyethyl starch"[All Fields]))
Gelatin and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (("gelatin"[MeSH Terms] OR "gelatin"[All Fields]) OR gelatine[All Fields])
Dextran and Cardiac surgery	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR

postoperative	("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND (("dextrans"[MeSH Terms] OR "dextrans"[All Fields] OR "dextran"[All Fields]) OR ("dextrans"[MeSH Terms] OR "dextrans"[All Fields]))
Albumin and cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND (("albumins"[MeSH Terms] OR "albumins"[All Fields] OR "albumin"[All Fields]) OR ("albumins"[MeSH Terms] OR "albumins"[All Fields]))

Keywords	Suchstrategie
Cardiovascular agents and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND ("cardiovascular agents"[Pharmacological Action] OR "cardiovascular agents"[MeSH Terms] OR ("cardiovascular"[All Fields] AND "agents"[All Fields]) OR "cardiovascular agents"[All Fields])
Cardiotonic agents and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND ("cardiotonic agents"[Pharmacological Action] OR "cardiotonic agents"[MeSH Terms] OR ("cardiotonic agents"[Pharmacological Action] OR "cardiotonic agents"[MeSH Terms] OR "cardiotonic agents"[All Fields]))

	("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields] OR "post-operative"[All Fields])) AND ("milrinone"[MeSH Terms] OR "milrinone"[All Fields])
Enoximone and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])))) AND ("enoximone"[MeSH Terms] OR "enoximone"[All Fields])
Levosimendan and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])))) AND ("simendan"[Supplementary Concept] OR "simendan"[All Fields] OR "levosimendan"[All Fields]) OR levosimendane[All Fields]
Nitroglycerin and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])))) AND ("nitroglycerin"[MeSH Terms] OR "nitroglycerin"[All Fields])
Nitrates and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])))) AND ("nitrates"[MeSH Terms] OR "nitrates"[All Fields]) OR ("nitrates"[MeSH Terms] OR

	"nitrates"[All Fields] OR "nitrate"[All Fields])
Prostacyclin and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND ("epoprostenol"[MeSH Terms] OR "epoprostenol"[All Fields] OR "prostacyclin"[All Fields])
Prostaglandine and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND (prostaglandine[All Fields] OR ("prostaglandins"[MeSH Terms] OR "prostaglandins"[All Fields] OR "prostaglandin"[All Fields]) OR ("prostaglandins"[MeSH Terms] OR "prostaglandins"[All Fields]))

Keywords	Suchstrategie
NIRS and Cardiac surgery postoperative	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND NIRS[All Fields]
Near-infrared spectroscopy and Cardiac surgery	((("thoracic surgery"[MeSH Terms] OR ("thoracic"[All Fields] AND "surgery"[All Fields]) OR "thoracic surgery"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields]) OR "cardiac surgery"[All Fields] OR "cardiac surgical procedures"[MeSH Terms] OR ("cardiac"[All Fields] AND "surgical"[All Fields] AND "procedures"[All Fields]) OR "cardiac surgical procedures"[All Fields] OR ("cardiac"[All Fields] AND "surgery"[All Fields])) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields])) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields]))) AND NIRS[All Fields]

postoperative	"surgery"[All Fields]) AND ("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR (("Heart/surgery"[Mesh] OR "Heart diseases/surgery"[Mesh]) AND (("postoperative period"[MeSH Terms] OR ("postoperative"[All Fields] AND "period"[All Fields]) OR "postoperative period"[All Fields] OR "postoperative"[All Fields]) OR "post-operative"[All Fields])) AND ("spectroscopy, near-infrared"[MeSH Terms] OR ("spectroscopy"[All Fields] AND "near-infrared"[All Fields]) OR "near-infrared spectroscopy"[All Fields] OR ("near"[All Fields] AND "infrared"[All Fields] AND "spectroscopy"[All Fields]) OR "near infrared spectroscopy"[All Fields])
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Recherche Strategie Cochrane

Keywords	Suchstrategie
Analysis blood gas and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3 #5analysis blood gas:ti,ab,kw (Word variations have been searched) #6oximetry or blood gas monitoring transcutan*:ti,ab,kw (Word variations have been searched) #7: #5 or #6; #8:#4 and #7
Echocardiography transesophageal and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 echocardiography transesophageal:ti,ab,kw (Word variations have been searched) #6: #4 and #5
Hemodynamic monitoring and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 hemodynamic* monitoring or haemodynamic* monitoring:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Lung water extravascular and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: Lung water extravascular or ELWI; #6: #4 and #5

<p>Pulse contour analysis and Cardiac surgery postoperative</p>	<p>#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: pulse contour analysis:ti,ab,kw (Word variations have been searched); #6 pulse wave analysis:ti,ab,kw (Word variations have been searched); #7 pulse wave velocit*:ti,ab,kw (Word variations have been searched);#8 pulse transit* time*:ti,ab,kw (Word variations have been searched); #9: #5 or #6 or #7 or #8; #10: #4 and #9</p>
<p>Pulmonary artery catheterization and Cardiac surgery postoperative</p>	<p>#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 pulmonary artery catheterization:ti,ab,kw (Word variations have been searched); #6 catheterization swan-ganz:ti,ab,kw (Word variations have been searched); #7: #5 or #6; #8: #4 and #7</p>
<p>Venous pressure central and Cardiac surgery postoperative</p>	<p>#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 venous pressure central:ti,ab,kw (Word variations have been searched); #6: #4 and #5</p>
<p>Central venous saturation and Cardiac surgery postoperative</p>	<p>#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3</p>

Keywords	Suchstrategie
<p>Plasma substitutes and Cardiac surgery postoperative</p>	<p>#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5:</p>

	plasma substitutes:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Plasma volume and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: plasma volume:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Molecular weight and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: molecular weight:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Isotonic solutions and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: isotonic solutions:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Crystalloids and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: crystalloids or crystalloid:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Colloids and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: colloid or colloids; #6: #4 and #5
Hydrocolloids and cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: Hydrocolloids or Hydrocolloid; #6: #4 and #5
Hydroxyethylstarch and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5:

	Hydroxyethylstarch or starch; #6: #4 and #5
Gelatin and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: Gelatin or gelatine; #6: #4 and #5
Dextran and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: dextrans or dextran; #6: #4 and #5
Albumin and cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 albumin or albumins:ti,ab,kw (Word variations have been searched); #6: #4 and #5

Keywords	Suchstrategie
Cardiovascular agents and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: cardiovascular agents:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Cardiotonic agents and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: cardiotonic agents:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Vasoconstrictor agents and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 vasoconstrictor agents:ti,ab,kw (Word variations have been searched); #6: #4 and #5

	#5
Vasodilator agents and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: vasodilator agents:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Vasopressors and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: vasopressors:ti,ab,kw (Word variations have been searched); #6: vasopressor:ti,ab,kw (Word variations have been searched); #7: #5 or #6; #8: #4 and #7
Inotropic support and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 inotropic support:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Catecholamines and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 catecholamines or catecholamine:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Norepinephrine and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5 norepinephrine:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Epinephrine and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: epinephrine:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Dopamine and Cardiac surgery	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations

postoperative	have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: dopamine:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Dobutamine and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: dobutamine:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Phosphodiesterase inhibitors Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: phosphodiesterase inhibitors or phosphodiesterase inhibitor:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Amrinone and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: amrinone; #6: amrinon; #7: #5 or #6; #8: #4 and #7
Milrinone and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: milrinon; #6: milrinon; #7: #5 or #6; #8: #4 and #7
Enoximone and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: enoximone; #6: #4 and #5
Levosimendan and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: levosimendan or levosimendane:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Nitroglycerin	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)

and Cardiac surgery postoperative	#2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: nitroglycerine or nitroglycerin:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Nitrates and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: nitrates or nitrate:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Prostacyclin and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: prostacyclin:ti,ab,kw (Word variations have been searched); #6: #4 and #5
Prostaglandine and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: prostaglandin or prostaglandins or prostaglandine or prostaglandines:ti,ab,kw (Word variations have been searched); #6: #4 and #5

Keywords	Suchstrategie
NIRS and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: NIRS; #6: #4 and #5
Near-infrared spectroscopy and Cardiac surgery postoperative	#1cardiac or heart or cardio* or myocard* or coronar* or endocard* or pericard* or aortic valve* or mitral valve* or pulmonary valve* or tricuspid valve*:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched) #2surgery or surgical:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#3postoperative or post-operative:ti,ab,kw Publication Year from 2009 to 2015 (Word variations have been searched)#4: #1 and #2 and #3; #5: Near-infrared spectroscopy; #6: #4 and #5

Suchstrategie Embase

Keywords	Suchstrategie
<p>Analysis blood gas and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. exp blood gas analysis/ 10. (analysis and blood and gas).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 11. 9 or 10 12. 8 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015") 14. limit 13 to human
<p>Echocardiography transesophageal and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. echocardiography.mp. or exp echocardiography/ 12. transesophageal.mp. 13. 11 and 12 14. 10 and 13 15. limit 14 to (exclude medline journals and yr="2009 - 2015") 16. limit 15 to human
<p>Hemodynamic monitoring and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]

	<p>10. 8 and 9 11. exp hemodynamic monitoring/ 12. exp hemodynamics/ 13. (hemodynamic or hemodynamics).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 14. 11 or 12 or 13 15. monitoring.mp. 16. 14 and 15 17. 10 and 16 18. limit 17 to (exclude medline journals and yr="2009 - 2015") 19. limit 18 to human</p>
<p>Lung water extravascular and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. lung.mp. or exp lung/ 12. (water or fluid).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 13. 11 and 12 14. lung fluid/ 15. (lung water or lung fluid or pulmonary fluid).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 16. 13 or 14 or 15 17. exp lung extravascular fluid/ or extravascular.mp. 18. lung exudate.mp. 19. 17 or 18 20. 16 and 19 21. limit 20 to (exclude medline journals and yr="2009 - 2015") 22. limit 21 to human 23. 21 not 22</p>

<p>Pulse contour analysis and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. (pulse contour analysis or pulse wave analysis or pulse wave velocit* or pulse transit time*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 12. exp pulse rate/ 13. (pulse rate or pulse frequen* or heart rate).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 14. 12 or 13 15. analysis.mp. 16. 14 and 15 17. 11 or 16 18. 10 and 17 19. limit 18 to (exclude medline journals and yr="2009 - 2015")
<p>Pulmonary artery catheterization and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. pulmonary artery catheterization.mp. or exp pulmonary artery catheterization/ 12. (swan ganz catheterization or catheterization swan ganz).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 13. (pumonary artery or swan ganz).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 14. catheterization.mp. 15. 13 and 14 16. 11 or 12 or 15 17. 10 and 16 18. limit 17 to (exclude medline journals and yr="2009 - 2015")
<p>Venous pressure central and Cardiac surgery postoperative</p>	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade

	<p>name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. central venous pressure.mp. or exp central venous pressure/</p> <p>12. (venous pressur central or vein pressure central or central vein pressure or jugular venous pressure or jugular vein pressure).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p> <p>16. limit 15 to human</p>
<p>Central venous saturation</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp venous oxygen tension/</p> <p>12. (central venous saturation or central venous oxygen tension).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. exp vein/</p> <p>14. (venous or vein or veins).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>15. 13 or 14</p> <p>16. central.mp.</p> <p>17. exp oxygen saturation/ or saturation.mp.</p> <p>18. oxygen tension.mp.</p> <p>19. 17 or 18</p> <p>20. 15 and 16 and 19</p> <p>21. 11 and 16</p> <p>22. 12 or 20 or 21</p> <p>23. 10 and 22</p> <p>24. limit 23 to (exclude medline journals and yr="2009 - 2015")</p>

Keywords	Suchstrategie
<p>Plasma substitutes</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p>

	<p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp plasma substitute/ or plasma substitute*.mp.</p> <p>12. (plasma and substitut*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p> <p>16. limit 15 to human</p>
<p>Plasma volume and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. plasma volume.mp. or exp plasma volume/ 12. (plasma and volume*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Molecular weight and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. molecular weight.mp. or exp molecular weight/ 12. (molecular and weight).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p> <p>16. limit 15 to human</p>
<p>Isotonic solutions and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade</p>

	<p>name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp isotonic solution/ or isotonic solution*.mp.</p> <p>12. (isotonic and solution*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Crystalloids</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp crystalloid/ or crystalloid*.mp.</p> <p>12. 10 and 11</p> <p>13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Colloids</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. colloid*.mp. or exp colloid/</p> <p>12. 10 and 11</p> <p>13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Hydrocolloids and cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp hydrocolloid/ or hydrocolloid*.mp.</p>

	<p>12. 10 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Hydroxyethylstarch and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. exp hetastarch/ or hydroxyethylstarch*.mp. 12. (hydroxyethyl starch* or hetastarch*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 13. (hydroxyethyl and starch*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 14. 11 or 12 or 13 15. 10 and 14 16. limit 15 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Gelatin and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. exp gelatin/ or gelatin*.mp. 12. 10 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Dextran and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. exp dextran/ or dextran*.mp. 12. 10 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>

Albumin and cardiac surgery postoperative	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. albumin*.mp. or exp albumin/ 12. 10 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")
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Keywords	Suchstrategie
Cardiovascular agents and Cardiac surgery postoperative	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 10. 8 and 9 11. exp cardiovascular agent/ or cardiovascular agent*.mp. 12. (cardiovascular and agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 13. 11 or 12 14. 10 and 13 15. limit 14 to (exclude medline journals and yr="2009 - 2015")
Cardiotonic agents and Cardiac surgery postoperative	<ol style="list-style-type: none"> 1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. exp heart surgery/ 4. exp heart disease/su [Surgery] 5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 3 or 4 or 5 7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name,

	<p>keyword]</p> <p>10. 8 and 9</p> <p>11. exp cardiogenic agent/ or cardiogenic agent*.mp.</p> <p>12. (cardiogenic and agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p> <p>16. limit 15 to human</p>
<p>Vasoconstrictor agents and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5/</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp vasoconstrictor agent/ or vasoconstrict* agent*.mp.</p> <p>12. (vasoconstrict* and agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Vasodilator agents and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp vasodilator agent/ or vasodilat* agent*.mp.</p> <p>12. (vasodilator* and agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. 11 or 12</p> <p>14. 10 and 13</p> <p>15. limit 14 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Vasopressors and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word,</p>

	<p>drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. vasopressor*.mp.</p> <p>12. 10 and 11</p> <p>13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
Inotropic support and Cardiac surgery postoperative	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp inotropic agent/</p> <p>12. (inotropic support or inotropic agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>13. (inotropic and support).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>14. (inotropic and agent*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>15. 11 or 12 or 13 or 14</p> <p>16. 10 and 15</p> <p>17. limit 16 to (exclude medline journals and yr="2009 - 2015")</p>
Catecholamines and Cardiac surgery postoperative	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. exp heart surgery/</p> <p>4. exp heart disease/su [Surgery]</p> <p>5. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 3 or 4 or 5</p> <p>7. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>10. 8 and 9</p> <p>11. exp catecholamine/ or catecholamin*.mp.</p> <p>12. 10 and 11</p> <p>13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
Norepinephrine and Cardiac surgery postoperative	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p>

	<p>9. exp noradrenalin/ or norepinephrin*.mp. 10. noradrenalin*.mp. 11. 9 or 10 12. 8 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Epinephrine and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. exp adrenalin/ or epinephrin*.mp. 10. adrenalin*.mp. 11. 9 or 10 12. 8 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Dopamine and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. exp dopamine/ or dopmamin*.mp. 10. 8 and 9 11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Dobutamine and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. exp dobutamine/ or dobutamin*.mp. 10. 8 and 9 11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Phosphodiesterase inhibitors Cardiac surgery postoperative</p>	<p>1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p>

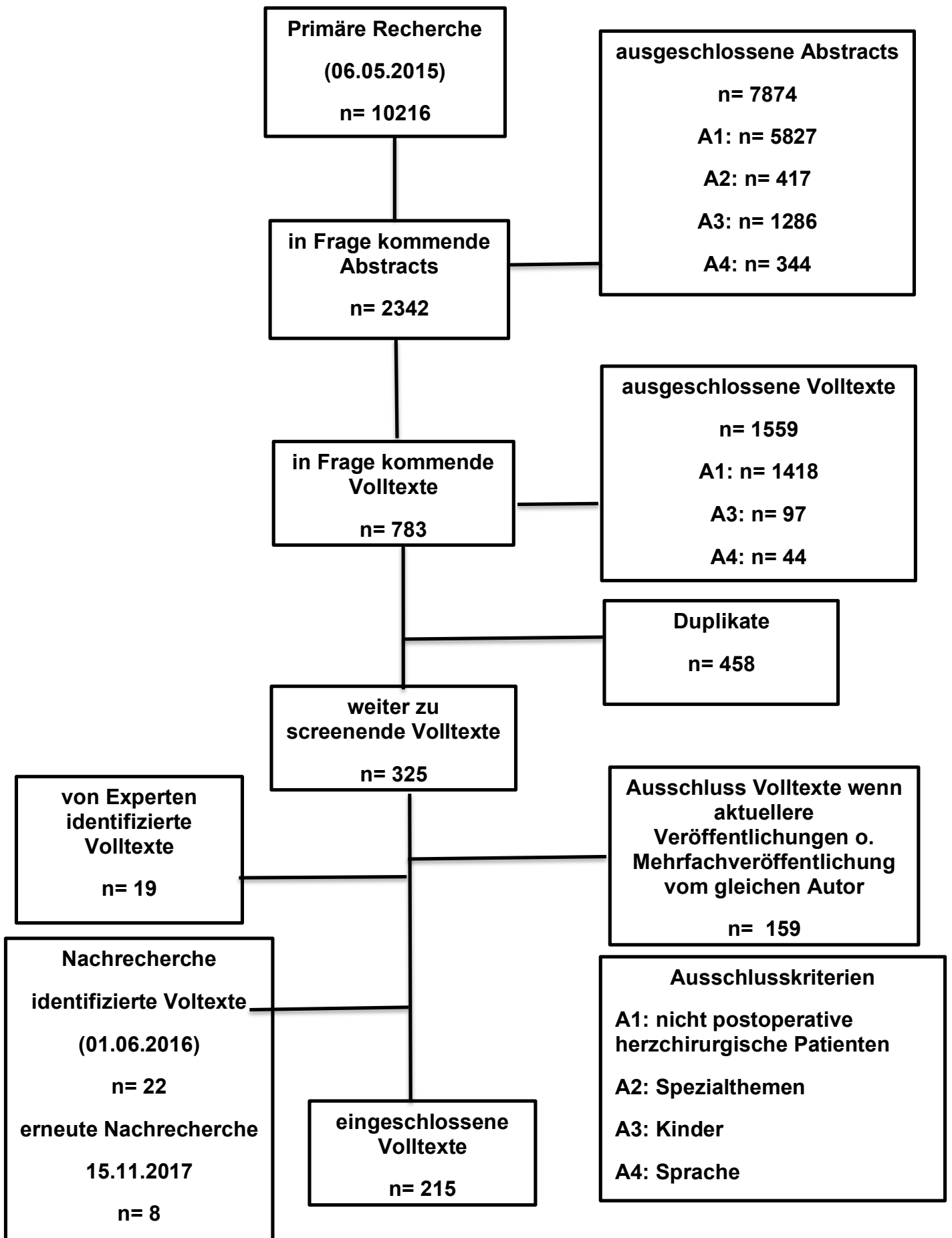
	<p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp phosphodiesterase inhibitor/ or phosphodiesterase inhibitor*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Amrinone and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp amrinone/ or amrinon*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Milrinone and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp milrinone/ or milrinon*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Enoximone and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp enoximone/ or enoximon*.mp.</p> <p>10. limit 9 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Levosimendan and Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word,</p>

	<p>drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp levosimendan/ or levosimendan*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Nitroglycerin</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp glyceryl trinitrate/ or nitroglycerin*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Nitrates and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. nitrates.mp. or exp nitric acid derivative/</p> <p>10. exp nitrate/ or nitrat*.mp.</p> <p>11. 9 or 10</p> <p>12. 8 and 11</p> <p>13. limit 12 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Prostacyclin</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>6. 4 and 5</p> <p>7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>8. 6 and 7</p> <p>9. exp prostacyclin/ or prostacyclin*.mp.</p> <p>10. 8 and 9</p> <p>11. limit 10 to (exclude medline journals and yr="2009 - 2015")</p>
<p>Prostaglandine</p> <p>and</p> <p>Cardiac surgery postoperative</p>	<p>1. exp heart surgery/</p> <p>2. exp heart disease/su [Surgery]</p> <p>3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword]</p> <p>4. 1 or 2 or 3</p> <p>5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade</p>

	name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. prostaglandin*.mp. or exp prostaglandin/ 10. 8 and 9 11. limit 10 to (exclude medline journals and yr="2009 - 2015")
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Keywords	Suchstrategie
NIRS and Cardiac surgery postoperative	1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. nirs.mp. 10. 8 and 9 11. limit 11 to (exclude medline journals and yr="2009 - 2015")
Near-infrared spectroscopy and Cardiac surgery postoperative	1. exp heart surgery/ 2. exp heart disease/su [Surgery] 3. (cardiac or heart or cardio*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 4. 1 or 2 or 3 5. (surgery or surgical).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 6. 4 and 5 7. (postoperative or post-operative).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 8. 6 and 7 9. exp near infrared spectroscopy/ 10. (near infrared spectroscop* or nir spectroscop*).mp. [mp=title, abstract, subject headings, heading word, drug trade name, original title, device manufacturer, drug manufacturer, device trade name, keyword] 11. 9 or 10 12. 8 and 11 13. limit 12 to (exclude medline journals and yr="2009 - 2015")

Appendix II: Flowchart zu Recherche und Studienselektion



Appendix III: Teilnehmer und Abstimmungsergebnisse der Kernempfehlungen bei der Konsensuskonferenz 21/22.04.2016

Teilnehmer an der Leitlinienkonferenz am 21./22.04.2016

PD Dr. A. Bauer, Prof. Dr. A. Böning, Dr. J. Erb, PD Dr. M. Göpfert , Dr. S. Haas, Dr. M. Habicher, Prof. Dr. M. Heringlake, Prof. Dr. E. Kilger, Prof. Dr. I. Kopp (Moderation), Prof. Dr. SA Loer, Prof. Dr. M. Markewitz, Prof. Dr. M. Sander, Prof. Dr. S. Treskatsch, PD Dr. G. Trummer (nur Freitag, den 21.04.2016 bis 16 Uhr), Dr. T. Zajonz

Die Abstimmungsergebnisse werden prozentual in der Form Ja-Stimmen / Nein-Stimmen / Enthaltungen dargestellt.

Konsentiertes Statement/ Konsentierte Empfehlung	GoR
Kapitel 2 Basismonitoring	
1. Zur kontinuierlichen EKG-Überwachung sollen zur Arrhythmie- und Ischämiediagnostik die Ableitungen II und V5 oder alternativ II und V3 oder II und V4 oder sofern technisch möglich V3, V4 und V5 verwendet werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
2. Ein ST-Segment-Monitoring sollte bei jeder EKG-Überwachung in den ersten 48 Stunden postoperativ auf der Intensivstation etabliert sein.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 92/0/8
3. Bei ITS Patienten soll ein 12-Kanal- EKG im Sinne eines Monitorings erfolgen. (Expertenkonsens)	Expertenkonsens
Abstimmungsergebnis Formulierung 85/15/0	Abstimmungsergebnis GoR: n.a.
4. Das kontinuierliche Monitoring mittels der Pulsoxymetrie detektiert das Auftreten klinisch inapparenter O₂-Entsättigungen und soll daher als kontinuierliches Monitoringverfahren eingesetzt werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
5. Eine kontinuierliche invasive Blutdruckmessung soll nach kardiochirurgischen Eingriffen durchgeführt werden, um schnell Kreislaufveränderungen zu detektieren und regelmäßige arterielle Blutgasanalysen machen zu können.	A

Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
6. Bei hämodynamisch stabilen Patienten kann postoperativ auch eine kontinuierliche nichtinvasive Blutdruckmessung angewendet werden.	0
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
7. Die ZVD-Kurve soll kontinuierlich überwacht werden, da sie – insbesondere im Verlauf - relevante Informationen über die Herz-Kreislauffunktion und prognostische Informationen liefern kann. Der absolute ZVD soll aber nicht als Parameter des Volumenstatus genutzt werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 95/5/0
8. Die Erfassung von Diurese und Blutverlust sollte in der frühen postoperativen Phase stündlich erfolgen.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 92/8/0
9. Eine arterielle BGA soll zeitnah nach Aufnahme auf die ITS oder bei Veränderung der Ventilationsparameter innerhalb eines Zeitintervalls von 30 min erfolgen. Bei einer $\text{FIO}_2 \geq 0,6$ wird eine BGA alle 4 Stunden, sonst mindestens alle 8 Stunden, empfohlen.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
10. Bei Intensivaufnahme sollte die Körperkerntemperatur gemessen werden, bei postoperativ hypothermen Patienten sollte bis zum Erreichen der Normothermie die Körperkerntemperatur regelmäßig (z. B. alle 15min.) gemessen werden.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
11. Die ScvO_2 sollte bei hämodynamisch stabilen Patienten statt der SvO_2 zur orientierenden Einschätzung des systemischen Verhältnisses von Sauerstoffangebot und -verbrauch herangezogen werden, unter Beachtung der methoden-immanenten Limitationen venöser Sättigungen.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 92/8/0
12. Bei schweren hämodynamischen Störungen soll eine ScvO_2 im Normbereich nicht als Beweis für eine normale SvO_2 bewertet werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
13. Bei herzchirurgischen Patienten sollte zusätzlich zur SvO_2 / ScvO_2 , Laktat bestimmt werden um eine unentdeckte	B

Hypoperfusion zu detektieren, da eine normale oder erhöhte venöse Sättigung nicht zum Ausschluss einer inadäquaten Sauerstoffversorgung der Gewebe genutzt werden kann.	
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 92/8/0
14. Eine zentralvenöse oder gemischtvenöse BGA soll zeitnah nach Aufnahme auf die Intensivstation und bei Auftreten einer kardiopulmonalen Instabilität durchgeführt werden.	Expertenkonsens
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR n.a.
Kapitel 3 Erweitertes hämodynamisches Monitoring Echokardiographie	
15. Bei Patienten, die akute hämodynamische Störungen aufweisen, die nicht auf eine initiale Therapie reagieren, soll eine Echokardiographie zur Diagnosesicherung in der perioperativen Periode durchgeführt werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
16. Die Echokardiographie kann wertvolle qualitative Hinweise auf den Status der Hämodynamik / Herzzeitvolumen geben und sollte zum Therapiemonitoring genutzt werden.	B
Abstimmungsergebnis Formulierung 100/0/0 (COI: 4 Teilnehmer)	Abstimmungsergebnis GoR 75/25/0
17. TTE und TEE - Untersuchungen sollen dokumentiert werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
18. Die kalibrierte Pulskonturanalyse bei postoperativen kardio-chirurgischen Patienten zeigt unter Beachtung der Methoden-immanenten Limitationen eine gute Übereinstimmung zum Referenzverfahren der pulmonal-arteriellen Thermodilution und kann zum erweiterten hämodynamischen Monitoring eingesetzt werden.	0
Abstimmungsergebnis Formulierung 100/0/0 (COI: 4 Teilnehmer)	Abstimmungsergebnis GoR 100/0/0
19. Bei Herzchirurgischen Patienten soll zur Abschätzung der Volumenreagibilität das PLR eingesetzt werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
20. Bei kontrolliert beatmeten Patienten im Sinusrhythmus sollten zur Einschätzung der Volumenreagibilität dynamischen Vorlastparameter eingesetzt werden.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 85/15/0
21. Bei kardiochirurgischen Patienten mit einem geringen perioperativen Risiko sollte der Einsatz von erweiterten	B

hämodynamischen Monitoringverfahren postoperativ nicht erfolgen.	
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
22. Der PAK kann eingesetzt werden bei bei kardiochirurgischen Hoch-Risikopatienten mit komplexem Eingriff und zur Differenzierung zwischen links- oder rechtsventrikulärer Dysfunktion.	0
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
23. Der PAK sollte eingesetzt werden bei Patienten mit präoperativer Rechtsherzdysfunktion, Risiko für Rechtsherzdysfunktion und/oder pulmonal-arterieller Hypertonie und zur Differenzierung der Ursache und Steuerung der Therapie eines schweren LCOS.	B
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
24. Ein erweitertes hämodynamisches Monitoringverfahren soll nur im Rahmen eines zielorientierten Behandlungskonzeptes angewendet werden.	A
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 85/15/0
Kapitel 5 Volumentherapie	
25. Bei der Verwendung kristalloider Lösungen sollten balancierte Vollelektrolytlösungen bevorzugt werden.	B
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
26. Bei kardiochirurgischen Patienten kann aufgrund unzureichender Evidenzlage keine Empfehlung zur Art des Volumenersatzes (Kristalloide vs Kolloide) ausgesprochen werden.	n.a.
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR n.a.
27. Der Ausgleich einer Hypovolämie und hämodynamischen Stabilisierung kann mit Humanalbumin vorgenommen werden.	0
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
28. Der Ausgleich einer Hypovolämie und hämodynamischen Stabilisierung kann mit künstlichen Kolloiden vorgenommen werden. Behördliche Zulassungsbeschränkungen für die Gruppe der Intensivpatienten sind bei der Wahl der Therapeutika zu berücksichtigen.“ (per Delphiverfahren nachträglich abgestimmt)	0
Abstimmungsergebnis Fomulierung 80/20/0	Abstimmungsergebnis GoR 80/20/0
29. Humanalbumin soll nicht zum Ausgleich einer Hypovolämie bzw. zur hämodynamischen Stabilisierung beim	A

erwachsenen, nicht septischen Intensivpatienten eingesetzt werden, solange therapeutische Alternativen nicht ausgeschöpft wurden.	
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
Kapitel 6 Postoperative Kreislaufdysfunktion	
30. Bei klinischem Verdacht auf eine Perikardtamponade nach einem herzchirurgischen Eingriff soll chirurgisch interveniert werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
Kapitel 8a Linksherinsuffizienz	
31. Bei Patienten mit einer Linksherzinsuffizienz soll vor einer medikamentösen oder apparativen Therapie eine Vorlastoptimierung erfolgen.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
32. Patienten bei denen nach einer Vorlastoptimierung die hämodynamischen Zielwerte nicht erreicht werden, sollten mit positiv inotropen und/oder vasoaktiven Medikamenten behandelt werden.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 77/13/0
33. Ein hämodynamisches Monitoring darf eine klinische Einschätzung des Patienten nicht ersetzen. Eine klinische Einschätzung des Patienten soll mind. 2x täglich sowie bei klinischer Verschlechterung erfolgen.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
34. Bei Patienten unter β-Blockade können PDE-III Hemmer oder Levosimendan als Inotropika eingesetzt werden.	Expertenkonsens
Abstimmungsergebnis Formulierung 100/0/0 (COI: 4 Teilnehmer)	Abstimmungsergebnis GoR n.a.
35. Bei Patienten mit erhöhter Vor- und/oder Nachlast und/oder postoperative Hypertonie kann aufgrund der aktuellen Studienlage keine Empfehlung zur Auswahl eines bestimmten Vasodilatators gegeben werden.	n.a.
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR n.a.
36. Ist ein Vasopressor indiziert, sollten Noradrenalin und/oder Vasopressin eingesetzt werden.	B
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
37. Low-dose-Dopamin soll nicht zur Prophylaxe oder Therapie eines Nierenversagens eingesetzt werden.	A
Abstimmungsergebnis Formulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0

38. Die protektiven Einflüsse von Dopexamin auf die hepato-splanchnikuläre Durchblutung und die Erhöhung der Kreatininclearance bei kardio-chirurgischen Patienten ist nicht nachgewiesen. Dopexamin soll daher nicht eingesetzt werden.	A
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
39. Levosimendan sollte zur Prävention hämodynamischer Komplikationen bei Patienten mit hochgradig eingeschränkter LVEF und bei Patienten mit bestehendem LCOS eingesetzt werden.	B
Abstimmungsergebnis Fomulierung 100/0/0 (COI 3 Teilnehmer)	Abstimmungsergebnis GoR 100/0/0
Kapitel 8b Rechtsherzinsuffizienz	
40. Bei schwerer pulmonal-arterieller Hypertonie und drohendem Rechtsherzsagen kann Vasopressin zur Verbesserung des PVR/SVR Verhältnisses alternativ zum Noradrenalin eingesetzt werden.	0
Abstimmungsergebnis Fomulierung 100/0/0 (COI 2 Teilnehmer)	Abstimmungsergebnis GoR 100/0/0
41. Zur Therapie einer Rechtsherzinsuffizienz sollte bei adäquatem koronaren Perfusionsdruck die Therapie mit Nitraten und/oder inhalativen Vasodilatoren (NO, Prostanoiden) erfolgen.	B
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
42. Bei Bedarf für eine inotrope Therapie können Dobutamin, PDE-III-Hemmer oder Levosimendan eingesetzt werden.	0
Abstimmungsergebnis Fomulierung 100/0/0 (COI 2 Teilnehmer)	Abstimmungsergebnis GoR 100/0/0
43. Bei unzureichendem Perfusionsdruck sollten Vasopressoren (Noradrenalin und/oder Vasopressin) eingesetzt werden.	B
Abstimmungsergebnis Fomulierung 100/0/0 (COI 2 Teilnehmer)	Abstimmungsergebnis GoR 100/0/0
44. Bei therapierefraktärer Rechtsherzinsuffizienz kann die Gabe von Adrenalin erwogen werden.	0
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0
45. Die Indikation einer IABP sollte sich nach den Empfehlungen der S3-Leitlinie zum Einsatz der intraaortalen Ballonpumpe in der Herzchirurgie (aktueller Stand: Mai 2015) richten	A
Abstimmungsergebnis Fomulierung 100/0/0	Abstimmungsergebnis GoR 100/0/0

Appendix IV: Interessenkonflikte von allen Leitliniengruppenmitgliedern Stand 04/2016

Delegierter / Koordinator / Methodiker / Organisator	Andreas Bauer	Andreas Böning	Joachim M. Erb	Matthias Göpfert
1 Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheitswirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Nein	Nein
2 Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Vortrag über peri-operatives Management der Herzinsuffizienz 2013; kein Produktbezug hergestellt; gesponsert von Orion Pharma	Ja: Vortrag für Maquet, Bayer, Orion Pharma	Nein	Ja: Vortrag Pulsion Medical Systems
3 Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Nein	Nein
4 Eigentümerinteresse an Arzneimitteln/Me-dizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein	Nein	Nein	Nein
5 Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
6 Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
7 Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden, Mandatsträger im Rahmen der Leitlinienentwicklung.	Ja: BDA, DGAI	Ja: DGTHG, DGK, LL-Entwicklung Fachgesellschaften	Ja: Board Mitglied in der EACTA	Nein
8 Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein	Nein	Nein	Nein

9	Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	Klinikum der Universität München	Universitäts-klinikum Gießen	Universitätsklinik Basel	Universitäts-klinikum Hamburg
	Enthaltung bei Kernempfehlung Nr.	34;	34; 39; 42;		16; 18

	Delegierter / Koordinator / Methodiker / Organisator	Sebastian Haas	Marit Habicher	Matthias Heringlake	Marc Kastrup
1	Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheitswirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Ja: verschiedene Advisory Boards von Covidien-Medtronic, Beratertätigk. Orion Pharma, Tenax Pharma	Nein
2	Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Pulsion Medical Systems	Ja: Pulsion Medical Systems, Edwards Lifesciences	Ja: Orion Pharma, Gambro Hospal	Nein
3	Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Ja: Pulsion Medical Systems, Edwards Lifesciences	Ja: Klinische Studie Air Liquide Sante	Nein
4	Eigentümerinteresse an Arzneimitteln/Me-dizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein	Nein	Nein	Nein
5	Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
6	Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
7	Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden , Mandatsträger im Rahmen der Leitlinienentwicklung.	Nein	Ja: DGAI	Ja: S3-LL, DGAI, DIVI	Ja: DGAF, DDA, DIVI
8	Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein	Nein	Nein	Nein
9	Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	Universitäts-krankenhau s Hamburg-Eppendorf	Charité Universitäts -medizin Berlin	Universitäts -klinik Lübeck	Charité Universitäts -medizin Berlin
	Enthaltung bei Kernempfehlung Nr.	18;	16; 18	34; 39; 40;	

				42; 43;	
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	Delegierter / Koordinator / Methodiker / Organisator	Erich Kilger	Stephan Loer	A. Markewitz	Daniel Reuter
1	Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheitswirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Nein	Ja: Advisory Board Pulsion Medical Systems, Fresenius Kabi
2	Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Orion Pharma	Nein	Nein	Ja: Pulsion Medical Systems, Edwards Lifesciences, Masimo, Fresenius Kabi
3	Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Nein	Ja: Forschungsvorhaben Pulsion Medical Systems
4	Eigentümerinteresse an Arzneimitteln/Me-dizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein	Nein	Nein	Nein
5	Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
6	Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
7	Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden , Mandatsträger im Rahmen der Leitlinienentwicklung.	Nein	Ja: DGAI, ASA, ESM, NVA	Ja: DGTHG, DIVI, DGK, BDC	Ja: DGAI
8	Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein	Nein	Nein	Nein
9	Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	LMV München	VU University, Amsterdam	BwZK Koblenz	Universitäts-klinikum Hamburg-Eppendorf
	Enthaltung bei Kernempfehlung Nr.	34; 39;			

Delegierter / Koordinator / Methodiker / Organisator	Michael Sander	Sascha Treskatsch	Georg Trummer	Christoph Wiesenack
1 Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheitswirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Ratiopharm, Massimo, Amomed	Nein	Ja: InflaRx GmbH Jena	Nein
2 Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Edwards Lifesciences, Pulsion Medical Systems, Fresenius	Ja: Carinopharm, Edwards Lifesciences	Nein	Ja: Edwards Lifesciences, Pulsion Medical Systems
3 Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Ja: Edwards Lifesciences, Pulsion Medical Systems, The Medicine Company	Ja: Research Grant:B. Braun, Biosense Webster, ImaCor	Nein	Nein
4 Eigentümerinteresse an Arzneimitteln/Me-dizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein	Nein	Ja: ResuSciTec GmbH Freiburg	Nein
5 Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein	Nein	Ja: ResuSciTec GmbH Freiburg	Nein
6 Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
7 Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden , Mandatsträger im Rahmen der Leitlinienentwicklung.	Ja: S2-LL, S3-LL, ESICM, ESA, DGAI	Ja: DGAI, DIVI, EACTA, ESICM, ESA	Ja: DGTHG, DIVI	Ja: DGAI, BDA
8 Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein	Nein	Nein	Nein
9 Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	Charité Universitäts -medizin Berlin, Universitäts -klinikum Gießen	Charité Universitäts -medizin Berlin	Universitäts- Herzzentru m Freiburg	Ev. Diakonie- krankenhau s Freiburg

Enthaltung bei Kernempfehlung Nr.	16;18;40;43		16	
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Delegierter / Koordinator / Methodiker / Organisator	Thomas Zajonz	Claudia Spies	Uwe Schirmer	Axel Kröner
1 Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheits-wirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Nein	Nein	Nein
2 Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Ja Lecture: Pfizer, Vifor Pharma, Fresenius Kabi, Thieme Verlag, Public reviewed Grant: AIF, BDA, BMBF, DKH, DLR, German Research Soc., GIZ, Einstein Stiftung, European Commission Funding, European Society of Anaesthesiology, Inner University Grants, Stifterverband, WHOCC	Ja Leitung Industriesym posium Kongress Bremen	Nein
3 Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein	Ja Leopoldina Symp.: Pulsion Medical Systems, Novartis Pharma, Carinopharm, Mundipharma, Grünenthal, Edwards Lifesciences, Dräger, B.Braun, AbbVie, Pfizer, Pajunk, Orion Pharma, Masimo, Covidien, Dr. Köhler, Baxter IIT: MSD Sharp&Dohme, Orion Pharma, App Adventure, SIT: Outcome Europe Sarl, IIT+SIT: B.Braun, IITS: J&P Medical, Pharmaceutical	Nein	Nein
4 Eigentümerinteresse an Arzneimitteln/Medizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein	Nein	Nein	Nein
5 Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
6 Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein	Nein	Nein	Nein
7 Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden, Mandatsträger im Rahmen der Leitlinienentwicklung.	Nein	Ja: DGAI	Nein	Ja: DGTHG
8 Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein	Nein	Nein	Nein
9 Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	Univer- sitäts-	Charité Universitäts- medizin Berlin	HDZ-NRW Universitäts	Uniklinik Köln

		kl inikum Gießen		kl inik der Ruhr Univer sität Bochum	CardioClinic Köln
	Enthaltungen bei Kernempfehlungen				

Delegierter / Koordinator / Methodiker / Organisator		Christian Hackmann
1	Berater- bzw. Gutachtertätigkeit oder bezahlte Mitarbeit in einem wissenschaftlichen Beirat eines Unternehmens der Gesundheitswirtschaft (z.B. Arzneimittelindustrie, Medizinprodukt-industrie), eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein
2	Honorare für Vortrags- und Schulungstätigkeiten oder bezahlte Autoren- oder Co-Autorenschaften im Auftrag eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein
3	Finanzielle Zuwendungen (Drittmittel) für Forschungsvorhaben oder direkte Finanzierung von Mitarbeitern der Einrichtung von Seiten eines Unternehmens der Gesundheitswirtschaft, eines kommerziell orientierten Auftragsinstituts oder einer Versicherung.	Nein
4	Eigentümerinteresse an Arzneimitteln/Me-dizinprodukten (z. B. Patent, Urheberrecht, Verkaufslizenz).	Nein
5	Besitz von Geschäftsanteilen, Aktien, Fonds mit Beteiligung von Unternehmen der Gesundheitswirtschaft.	Nein
6	Persönliche Beziehungen zu einem Vertretungsberechtigten eines Unternehmens Gesundheitswirtschaft.	Nein
7	Mitglied von in Zusammenhang mit der Leitlinienentwicklung relevanten Fachgesellschaften/Berufsverbänden, Mandatsträger im Rahmen der Leitlinienentwicklung.	Ja Deutsche Gesellschaft für Fachkrankenpflege und Funktionsdienste e.V. Alt-Moabit 91 10559 Berlin (ordentliches Mitglied)
8	Politische, akademische (z.B. Zugehörigkeit zu bestimmten „Schulen“), wissenschaftliche oder persönliche Interessen, die mögliche Konflikte begründen könnten.	Nein
9	Gegenwärtiger Arbeitgeber, relevante frühere Arbeitgeber der letzten 3 Jahre.	Universitätsklinik Münster Klinik für Anästhesiologie, operative Intensivmedizin und Schmerztherapie

		Intensivtherapiestation I (19 A Ost) Albert-Schweitzer- Campus 1 48149 Münster
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