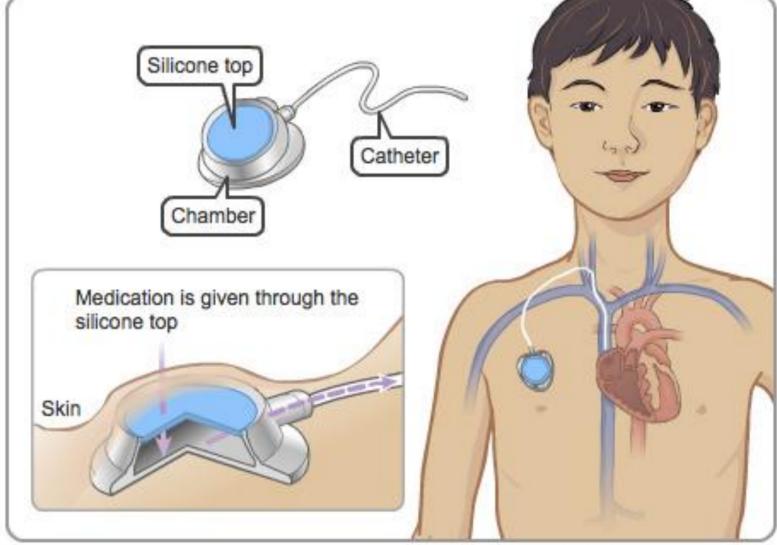


Subcutaneously implanted port-chamber central venous catheters: prevention and care of occlusion

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A port is a special intravenous (IV) line that is placed completely inside the body. A port provides a more comfortable and convenient way to receive medicines such as chemotherapy, IV nutrition, fluids and from which to have blood samples taken.

Occlusion of subcutaneously implanted port-chamber central venous catheters (CVAD) is a commonly occurring problem in cancer patient care. A change of port-chamber catheter model in our institution was the

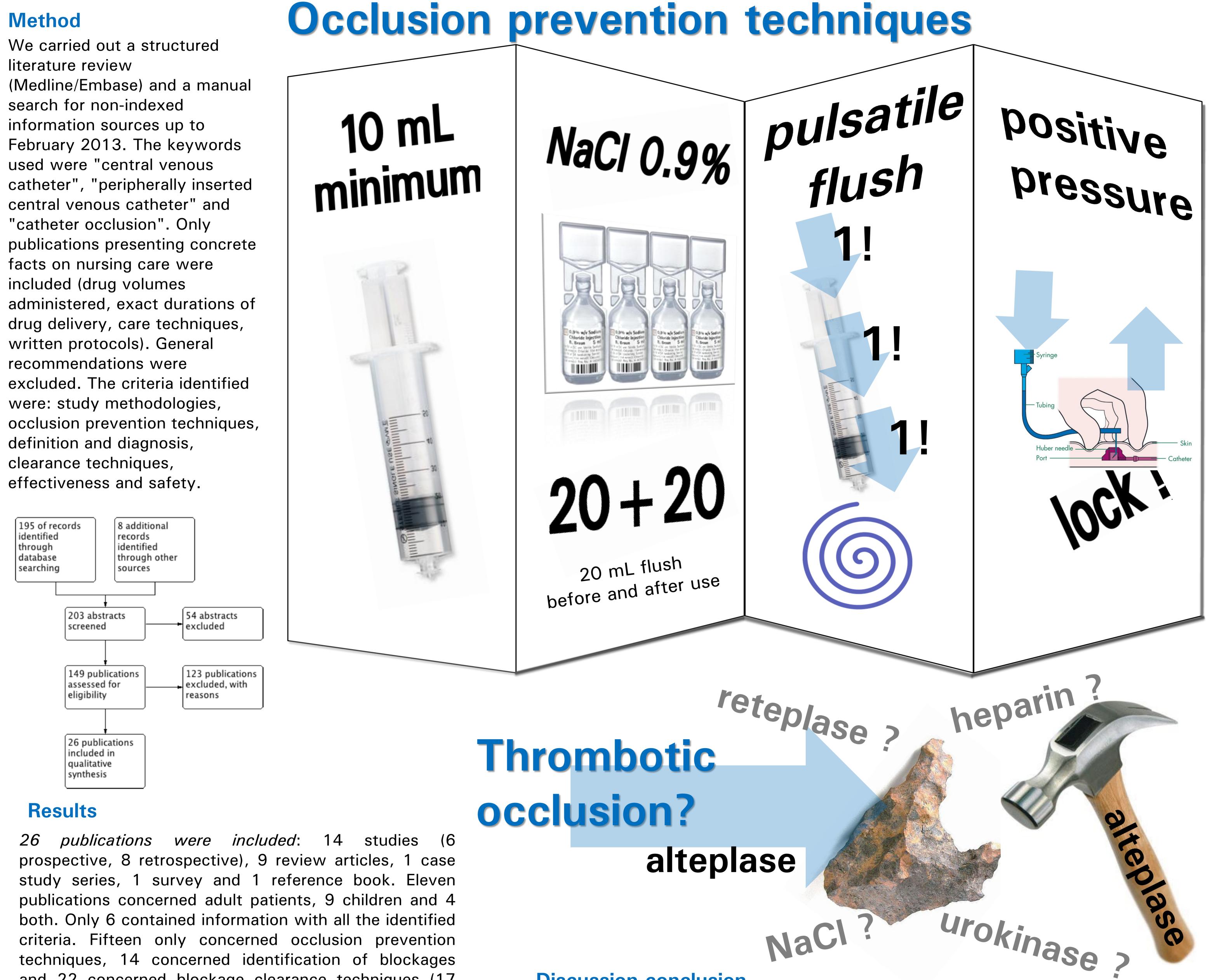


Evidence

summary

opportunity to review nursing care techniques.

(Medline/Embase) and a manual "catheter occlusion". Only publications presenting concrete administered, exact durations of recommendations were excluded. The criteria identified were: study methodologies,



and 22 concerned blockage clearance techniques (17 thrombotic occlusion, 1 non-thrombotic lipid occlusion, 4 for both types). Highlighted points included: minimum 10 ml syringe volume use, using NS (normal saline) for flushing and positive pressure filling (pulsed flux technique), thrombotic occlusion treatment using alteplase, the lack of validated, risk free treatment for non-thrombotic occlusion, and cost considerations.

Discussion-conclusion

Few studies of good methodological quality exist, with wide heterogeneity in types of catheter devices and occlusions evaluated. This renders comparison of preventive practices and occlusion treatment difficult. Literature review revealed a variety of useful insights for the interdisciplinary working group. The costs and risks of occlusion and the repeated use of alteplase call for good quality quantitative and qualitative prospective studies.



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