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“Surfacer Inside-Out Catheter System: A Single-Centre Case Series”
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OP000035 - SURFACER INSIDE-OUT CATHETER SYSTEM: A SINGLE-CENTRE CASE SERIES

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Aims: Long-term and repeated access to the major upper body veins carries a risk of central venous occlusion. When this occurs there is no effective, low risk procedure to address the problem. The Surfacer Inside-Out Catheter system provides a unique solution: A guide wire is inserted through the femoral vein and navigated to the occlusion. The device is passed over the wire, and establishes a transient passage across the occlusion, from where a needle wire is passed to the marked supraclavicular exit point on the skin.

Materials and Methods: We have conducted a prospective data collection and analysis of the first seven central line placements using the Surfacer system in Oxford.

Results: Six patients had a total of seven lines inserted by the Surfacer system. All had SVC occlusion. The average time from common femoral vein access to having the jugular wire out, and the peel-away sheath down, was 18.5 minutes (range 10-28 minutes). All cases were completed under general anaesthetic. There were no immediate or peri-procedural complications. One patient accidentally pulled out their line and had to have it replaced a few days later via the same technique.

Conclusions: The Surfacer Inside-Out Catheter system provides a novel approach to establish central venous access for patients who have occluded. It can be used to place central access lines for haemodialysis, chemotherapy, nutrition, and pacing. The Surfacer system is the only formally marketed device to specifically restore access when central veins are blocked. It is safe, effective, and easy to use.