SAFETY AND EFFICACY OF AN ACCELERATED DEFLATION ALGORITHM FOR PATENT HEMOSTASIS IN TRANSRADIAL NEUROVASCULAR PROCEDURES

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Transradial access for neurovascular procedures has gained prominence recently given improved safety benefits, reduced healthcare costs, and patient preference. The addition of a potassium ferrate patch (StatSeal) prior to achieving access site hemostasis has been shown in other fields to reduce time to transradial band removal, and thus, recovery time. We sought to review our experience with this device in our neurovascular patient population.
A retrospective single-center series review was conducted with 43 patients and 50 consecutive procedures.

A transradial sheath (Terumo Glidesheath slender) was used in all procedures.

Heparin 5000 units was administered as an IV bolus in all patients. Re-administration of IV heparin during procedure to maintain ACT >250 was dependent on the case.

Patient hemostasis was achieved with transradial band (TR band (Terumo) for proximal radial; (Merit) PreludeSYNC Distal for “distal” radial access) following application of StatSeal. The band was inflated to 8cc air. Half of the air was removed after 15 minutes, and the remaining air was removed after 30 minutes. The access site was monitored for another 30 minutes with a completely deflated band in place. StatSeal was removed 24 hours later.
In the 50 total procedures, distal (35 procedures) and proximal radial access sites (15 procedures) were utilized. 48 procedures utilized the right radial access, and 2 procedures utilized the left radial access. 33 procedures were cerebral angiograms, and 17 procedures were neurovascular interventions. Different sheaths were utilized (5F sheath (33 procedures), 6F sheath (16 procedures) and a 7F sheath (1 procedure)). No hematomas grade 2 or above reported. No access site complications were reported. 21 patients had concomitant anticoagulant treatment (DAPT (11 patients), Aspirin (5 patients), and NOAC (5 patients)).
DISCUSSION

- An accelerated deflation algorithm, with complete band deflation within 30 minutes, in conjunction with StatSeal is safe and effective to achieve rapid, patent hemostasis in neurovascular patients undergoing traditional and “distal” transradial access.
SUMMARY POINTS

- The accelerated deflation algorithm was successfully utilized in 43 patients for a total of 50 procedures, demonstrating its viability in achieving rapid hemostasis following neuro-interventional procedures.
- Procedures were completed without access-site complications, no hematomas above grade 1 were reported.