Abstract

Function of Haemodialysis Arteriovenous Fistulae amongst Malaysians

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Introduction:
Although native AV fistulae are the preferred access for hemodialysis and may have lower complication rates, failure to mature, delayed maturation and time to first dialysis may be prolonged. As maturation and function are associated with vessel size, the smaller vessels amongst Asians may adversely affect function. A review was undertaken to determine function.

Patients & Methods:
Dissertations on 3 different cohorts of patients, were examined to determine the functional patency of haemodialysis vascular access fistulae. Data collection in all three dissertations was collected by interview and examination during outpatient clinic follow-up, during the years, 2007, 2009, 2010 and 2011.

Results:
There were a total of 627 fistulae in these 3 dissertations. The one-year functional patency of arteriovenous fistulae was 84%, 74% and 80.4%. The functional patency at two-year was 66% and 69.8% and at three-year was 59% and 60.7% respectively in two of the dissertations

Discussion & Conclusion:
Although the smaller vessels amongst Asians may perhaps contribute to lower functional patency, the functional patency found in all 3 dissertations examined were consistent with that of reported in the literature.