**Supplementary Digital Content - Equations**





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| **Maximum weight of flap predicted to survive on single perforator**(Pennington et. al. 2012) |
|  |  |  |
|  | Arterial Diameter (mm) | Flap Weight (gms) |
|  | 1.2 | 207 |
|  | 1.3 | 286 |
|  | 1.4 | 384 |
|  | 1.5 | 506 |
|  | 1.6 | 655 |
|  | 1.7 | 835 |
|  | 1.8 | 1050 |