

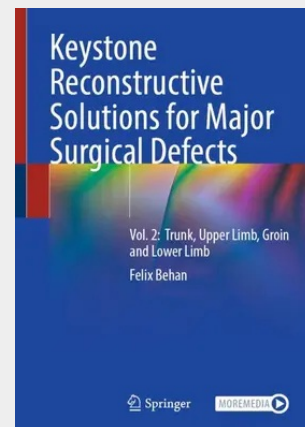
Keystone Reconstructive Solutions for Major Surgical Defects

Vol. 2: Trunk, Upper Limb, Groin and Lower Limb

KDPIF, or Keystone Design Perforator Island Flap, has proven to be a reliable solution for complex surgical defect reconstructions, offering consistent results with reduced complications. The illustrations cover complex cases in a clear format, with video audio files, acting as a supplementary tool to illustrate the technique and expand the reader's experience to show others how to simply master the technique. The basic design format for all Keystones is highlighted, all sitting within the dermatomal precincts. The KDPIF must contain a fascial base for lining and must be aligned within the dermatomal precincts which ensures their neurovascular and lymphatic input. This island outline is an essential pre-requisite for its success. It is hypothesized that this islanding creates a sympathectomy effect resulting in hyperaemic blood flow which optimises healing: the KDPIF technique provides an alternative to microvascular procedures where the biggest drawbacks are theatre time and tissue match which reduces aesthetics. The KDPIF addresses these problems admirably with a low pain component, an excellent aesthetic match with a low vascular complication rate and when executed in an expeditious manner, with sensory recovery and resolution of oedema. The first publication of this Keystone principle occurred in the ANZ Journal of Surgery in 2003 and its applications since have resulted in over 35 further peer reviewed publications leading to textbook publications applying these principles all over the body.

Volume 2 continues the comprehensive coverage of KDPIF applications, extending to trunk, upper limb, groin, lower limb and foot regions. The flap's adaptability and minimal resource requirement make it an excellent fit for challenging reconstructions—including abdominal wall, sacral, breast, perineum, and heel defects. Case-based chapters highlight real-world scenarios and outcomes, emphasizing the flap's resilience even in irradiated tissue. Discussions around complication rates, contraindications, and regional limitations help guide clinical decision-making. Designed to be clear and practical, Keystone Reconstructive Solutions for Major Surgical Defects Vol. 2 complements the principles laid out in Volume 1 and reinforces the role of the Keystone flap as a dependable surgical choice in daily practice, proving a valued companion to plastic and reconstructive surgeons and general surgeons, offering a sound alternative to microsurgical techniques in diverse situations.

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