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**Surgical damage to the lymphatic system promotes tumor growth via impaired  
adaptive immune response**

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**Abstract**

Background : Both lymph nodes (LNs) and lymphatic channels from primary sites to  
regional LNs are critical for initiation of adaptive immunity. However, as LNs are  
common metastatic sites in skin cancers, LN biopsies or dissections are frequently  
performed. In addition, reconstructive skin flaps after tumor resection may damage

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