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*Retrospective Cohort Study*

**Risk Prediction Model for Cutaneous Squamous Cell Carcinoma in Adult Cardiac  
Allograft Recipients**

Squamous Cell Carcinoma in Adult Cardiac Allograft Recipients

## Abstract

### BACKGROUND

Heart transplant recipients are at higher risk of developing skin cancer than the general population due to the long-term immunosuppression treatment. Cancer has been reported as one of the major causes of morbidity and mortality for patients after heart transplantation. Among different type of skin cancers, cutaneous squamous cell carcinoma (cSCC) is the most common one, which requires timely screening and better

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## [Cutaneous Squamous Cell Carcinomas in Solid Organ ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5833573>

This cohort study compared 167 **squamous cell** carcinomas from 58 solid organ transplant **recipients** with 111 **squamous cell** carcinomas from 40 high-risk immunocompetent patients. Differences of tumor thickness and poorer outcomes between the 2 groups were not statistically significant.

**Cited by:** 11**Author:** Joyce Y. Cheng, Fang-Yong Li, Christine J. ...**Publish Year:** 2018

## [Risk factors of squamous cell carcinoma of the skin. A ...](#)

<https://acsjournals.onlinelibrary.wiley.com/doi/10...>

A matched case-control study was undertaken to assess the relative **risk** associated with known and suspected **risk** factors of **squamous cell carcinoma** of the **skin** among patients in the Montreal region. Three hundred eleven cases histologically diagnosed in 1977 and 1978 in 12 hospitals and meeting strict definition criteria were identified.

**Cited by:** 227**Author:** Francine Aubry, Brenda Macgibbon**Publish Year:** 1985

## [Immune Phenotype Predicts Risk for Posttransplantation ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2844307>

**Cutaneous squamous cell** cancer (SCC) affects up to 30% of kidney transplant **recipients** (KTRs) within 10 years of transplantation. There are no reliable clinical tests that predict those who will develop multiple **skin** cancers. High numbers of regulatory ...

**Cited by:** 87**Author:** Robert P. Carroll, David San Segundo, Kevin...**Publish Year:** 2010

## [Immunosuppressive Level and Other Risk Factors for Basal ...](#)

<https://jamanetwork.com/journals/jamadermatology/fullarticle/480781> ▼





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## Risk Factors for Developing Nonmelanoma Skin Cancer after ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6431522>

The most common posttransplant malignancy in OTRs is nonmelanoma **skin cancer** (NMSC), especially **cutaneous squamous cell carcinoma** (SCC) and basal **cell carcinoma** (BCC). The **risk** for SCC and BCC is increased by 65- to 250-fold [ 4 – 8 ] and by 10-fold [ 9 ], respectively.

**Cited by:** 1

**Author:** Nikolai Gräger, Mareike Leffler, Jens Gottlie...

**Publish Year:** 2019

## Immunosuppressive Level and Other Risk Factors for Basal ...

<https://jamanetwork.com/journals/jamadermatology/fullarticle/480781> ▼

Sep 01, 2004 · Nonmelanoma **skin** cancers (NMSCs) are the most frequent malignancies in organ transplant **recipients**. 1-3 A reversal in the **squamous cell carcinoma**(SCC)–basal **cell carcinoma** (BCC) ratio usually observed in the general population has been described. 4-6 Clearly, immunosuppression is the critical feature differentiating organ transplant **recipients** from the general population.

**Cited by:** 132

**Author:** Anna Belloni Fortina, Stefano Piaserico, Ali...

**Publish Year:** 2004

## Elevated cutaneous Smad activation associates with ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2812428>

Aug 15, 2009 · The most common malignancy of OTRs is non-melanoma **skin cancer** (NMSC), with elevated **risk** factors of 39 to 100 fold in patients of European descent. Increased **risk** is greater for **squamous cell carcinoma** (SCC) than for basal **cell carcinoma** (BCC), with a shifting of the usual BCC: SCC ratio from 3:1 to 1:2 . NMSC in OTRs is often accompanied by ...

## RECURRENT SQUAMOUS CELL CARCINOMA IN A POST CARDIAC ...



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### [Risk factors of squamous cell carcinoma of the skin. A ...](#)

<https://acsjournals.onlinelibrary.wiley.com/doi/10...>

A matched case-control study was undertaken to assess the relative **risk** associated with known and suspected **risk** factors of **squamous cell carcinoma** of the **skin** among patients in the Montreal region. Three hundred eleven cases histologically diagnosed in 1977 and 1978 in 12 hospitals and meeting strict definition criteria were identified.

**Cited by:** 226**Author:** Francine Aubry, Brenda Macgibbon**Publish Year:** 1985

### [RECURRENT SQUAMOUS CELL CARCINOMA IN A POST CARDIAC ...](#)

<https://www.sciencedirect.com/science/article/pii/S221026122100033X>

Jan 15, 2021 · **Squamous cell carcinoma**, which is the most common **skin** malignancy after basal **cell carcinoma** in the general population, is frequently found in transplant patients, accounting for 65-250 times more in this population . Melanoma occurs 6-8 times more frequently.

**Author:** Anushka S. Ruwanpathirana, Saman... **Publish Year:** 2021

### [Immunosuppressive Level and Other Risk Factors for Basal ...](#)

<https://jamanetwork.com/journals/jamadermatology/fullarticle/480781> ▼

Sep 01, 2004 · Nonmelanoma **skin** cancers (NMSCs) are the most frequent malignancies in organ transplant **recipients**. 1-3 A reversal in the **squamous cell carcinoma**(SCC)–basal **cell carcinoma** (BCC) ratio usually observed in the general population has been described. 4-6 Clearly, immunosuppression is the critical feature differentiating organ transplant **recipients** from the ...

**Cited by:** 138**Author:** Anna Belloni Fortina, Stefano Piaserico,...**Publish Year:** 2004

### [A Pilot Study of Checkpoint Inhibitors in Solid Organ ...](#)

<https://theoncologist.onlinelibrary.wiley.com/doi/10.1002/onco.13539>

Sep 23, 2020 · As SOT **recipients** remain on lifelong immunosuppressive regimens to prevent **allograft** rejection, they are at increased **risk** of developing various solid organ tumors as well as **cutaneous** malignancies. **Cutaneous squamous cell carcinoma** (cSCC) is the most common post-transplant malignancy that arises in 10% to 27% of SOT **recipients** at 10 years of ...

**Author:** Irene Toung, Francis B. Warden, Rob... **Publish Year:** 2020