# 高雄榮民總醫院

## 皮膚癌(SCC、Keratoacanthoma)

## 診療原則

修訂日期:2022.04.19

癌委會公告日期:2022.07.18

Reference: NCCN Clinical Practice Guideline in OncologyTM, Skin cancer, V.1.2019

## SCC診療指引審視修訂會議討論日期

● 前次會議: 2021/04/29

上一版	新版
NCCN Guidelines 2021年版	更換附件為:NCCN Guidelines 2022年版



診斷

初步評估

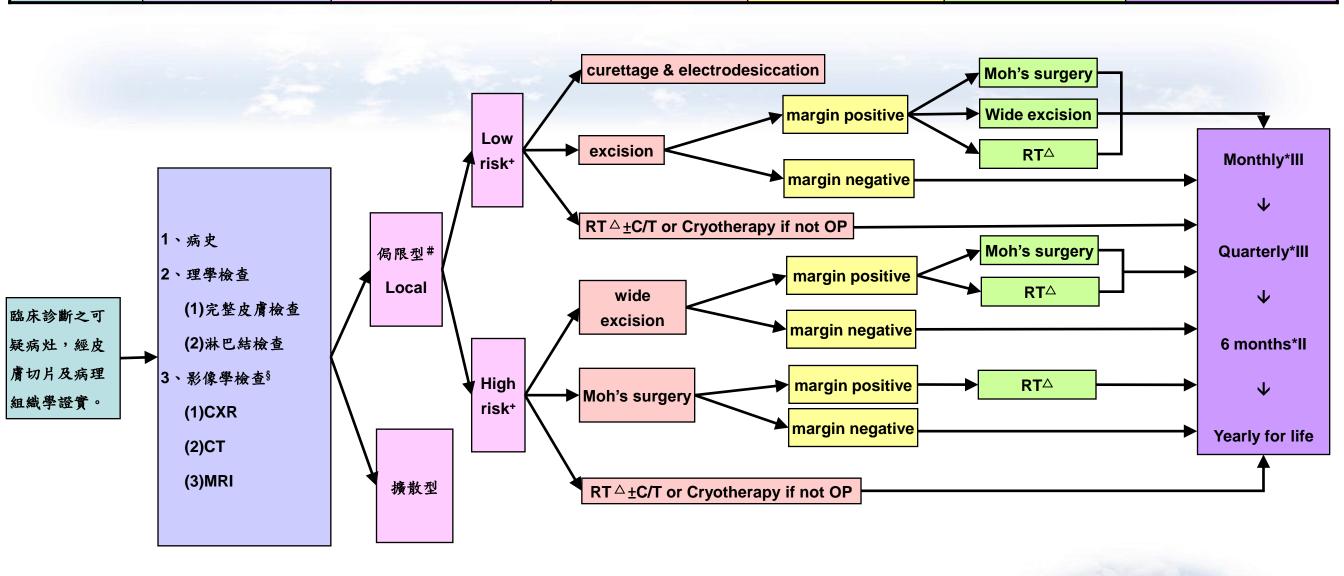
分期

初始治療

療效評估

輔助治療

追蹤



§ : Image studies is indicated for extensive disease (deep structural involvement such as bone, deep soft tissue, perineural disease)

+:附件一

△: RT主要針對手術不適用之情形, 附件二

#: Tany, N0, M0, 附件三

診斷 初步評估 分期 再評估(針對淋巴結) 輔助治療 追蹤 初步治療 1、病史 侷限型 negative 2、理學檢查 臨床診斷之 Consider re-evaluation(臨床, negative 影像reapeat FNA / core biopsy (1)完整皮膚檢查 可疑病灶, / open LN biopsy) (2)淋巴結檢查 positive 經皮膚切片 Monthly\*III 3、影像學檢查§ 及病理組織 Quarterly\*III (1)CXR 學證實。 擴散型# 6 months\*II (2)CT fine needle aspiration(FNA) or core biopsy for lymph node regional (3)MRI Yearly for life or **Palliative care** 

影像學檢查:

1.評估授犯之淋巴節

的數量、大小、位置

2.排除遠端轉移。

R/T△± C/T☆

**EGFRI** 

(安寧緩和)

Regional

dissection

無遠端

轉移

有遠端 轉移

lymph node

R/T△± C/T☆ or EGFRI

R/T△± C/T☆ or EGFRI

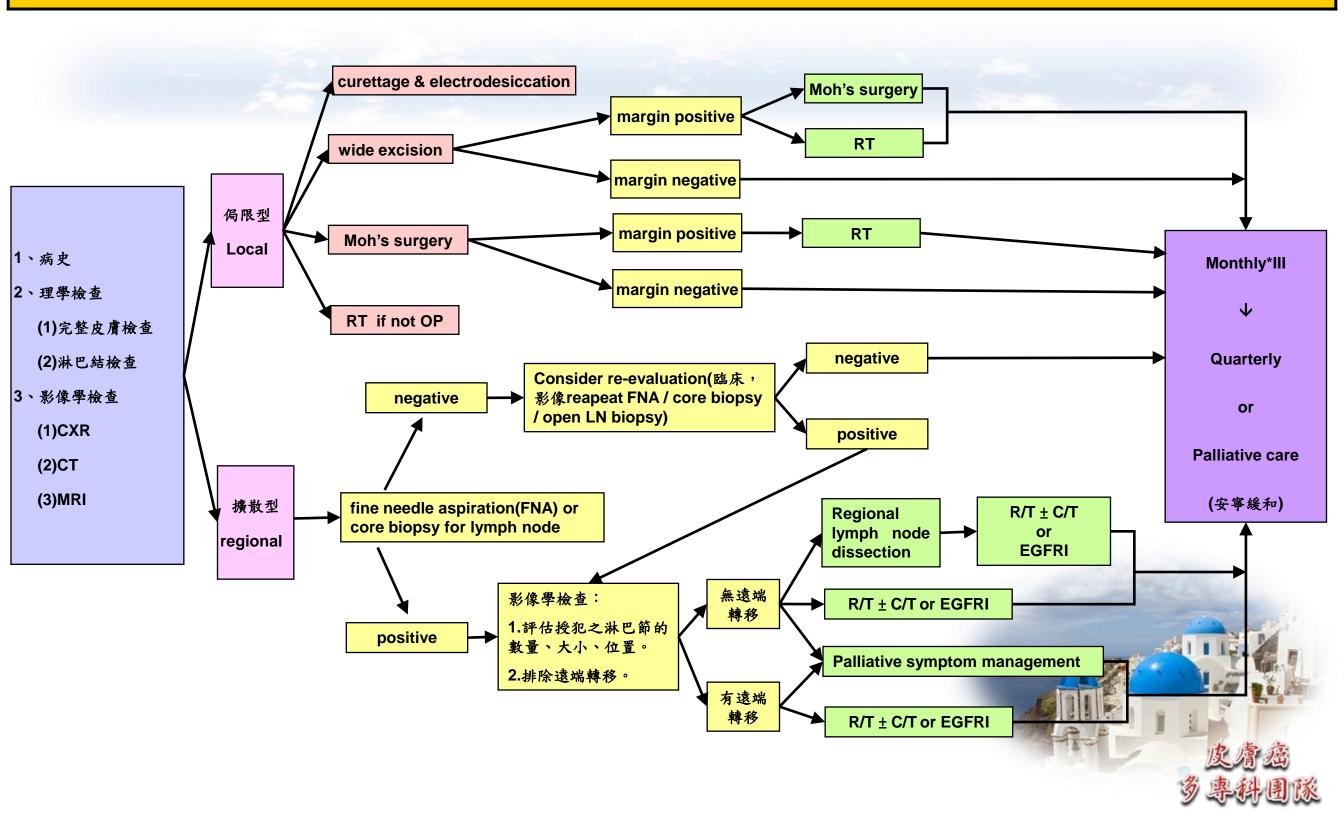
**Palliative symptom management** 

§: Image studies is indicated for extensive disease (deep structural involvement such as bone, deep soft tissue, perineural disease) if perineural disease is suspected, MRI is preferred.

positive

- ¥: Palliative symptom management, including salvage C/T
- △: RT主要針對手術不適用之情形, 附件二
- #: Palpable regional lymph node(s) or abnormal lymph nodes identified by image studies. (擴散型的 "初始皮膚病灶" 治療同侷限型中high risk)
  - Tany, N1, M0 or M1 (附件三)
- ☆: chemotherapy regimen & EGFRI, 附件四

### 復發



### 癌症藥物停藥準則

- ➤ 根據CTCAE (Common Terminology Criteria for Adverse Events, Version 4.0 Published: May 28, 2009 【v4.03: June 14, 2010】), 出現Grade 3 ~ Grade 4 adverse event。
- ▶ 停藥至adverse event回復至Grade 1或Baseline時可再次用藥,但有些患者必須調整用藥劑量。
- ▶ 使用BRAF inhibitor時可能產生cutaneous SCC。此現象雖被CTCAE列為Grade 3 toxic effect, 但此現象不必停藥或調整劑量。
- ▶特定藥物治療下疾病仍持續進展,根據追蹤及評估顯示疾病對此特定藥物治療無效 (考慮停止投藥並選擇其他治療方法)。
- ▶ 病患要求 (Hospice care或其他因素)。
- > 病患死亡。

附件一:



## Comprehensive Cancer Network® NCCN Guidelines Version 1.2022 Squamous Cell Skin Cancer

NCCN Guidelines Index Table of Contents Discussion

### STRATIFICATION TO DETERMINE TREATMENT OPTIONS AND FOLLOW-UP FOR LOCAL CSCC BASED ON RISK FACTORS FOR LOCAL RECURRENCE, METASTASES, OR DEATH FROM DISEASE

Risk Group <sup>1</sup>	Low Risk	High Risk	Very High Risk
Treatment options	See SCC-2	See SCC-3	See SCC-3
H&P			
Location/size <sup>2</sup>	Trunk, extremities ≤2 cm	Trunk, extremities >2 cm – ≤4 cm	>4 cm (any location)
		Head, neck, hands, feet, pretibia, and anogenital (any size) <sup>5</sup>	
Borders	Well-defined	Poorly defined	
Primary vs. recurrent	Primary	Recurrent	
Immunosuppression	(-)	(+)	
Site of prior RT or chronic inflammatory process	(-)	(+)	
Rapidly growing tumor	(-)	(+)	
Neurologic symptoms	(-)	(+)	
Pathology (See SCC-A)			
Degree of differentiation	Well or moderately differentiated		Poor differentiation
Histologic features: Acantholytic (adenoid), adenosquamous (showing mucin production), or metaplastic (carcinosarcomatous) subtypes	(-)	(+)	Desmoplastic SCC
Depth <sup>3,4</sup> : Thickness or level of invasion	≤6 mm and no invasion beyond subcutaneous fat		>6 mm or invasion beyond subcutaneous fat
Perineural involvement	(-)	(+)	Tumor cells within the nerve sheath of a nerve lying deeper than the dermis or measuring ≥0.1 mm
Lymphatic or vascular involvement	(-)	(-)	(+)

See footnotes on SCC-B (2 of 2)

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

SCC-B 1 OF 2



附件二



## Cancer Squamous Cell Skin Cancer

NCCN Guidelines Index Table of Contents Discussion

#### PRINCIPLES OF RADIATION THERAPY

#### **General Principles**

- Protracted fractionation is associated with improved cosmetic results and should be utilized for poorly vascularized or cartilaginous areas.
- For extensive perineural invasion, clinically evident perineural involvement, or involvement of named nerves (particularly in the head and neck region), consider including the course of the local nerves proximally.
- RT is contraindicated for genetic conditions predisposing to skin cancer (eg, basal cell nevus syndrome) and relatively contraindicated for patients with connective tissue diseases (eg, scleroderma).
- Given higher complication rates, re-irradiation should not be routinely utilized for recurrent disease within a prior radiation field.
- Isotope-based brachytherapy can be an effective treatment for certain sites of disease, particularly on the head and neck.
- There are insufficient long-term efficacy and safety data to support the routine use of electronic surface brachytherapy.

#### **General Treatment Information**

Primary Tumor	Examples of Dose Fractionation and Treatment Duration
Definitive RT	
Tumor diameter <2 cm	60-64 Gy over 6 to 7 weeks 50-55 Gy over 3 to 4 weeks 40 Gy over 2 weeks 30 Gy in 5 fractions over 2 to 3 weeks
Tumor diameter ≥2 cm, T3/T4, or those with invasion of bone or deep tissue	60-70 Gy over 6 to 7 weeks 45-55 Gy over 3 to 4 weeks
Postoperative Adjuvant RT	60-64 Gy over 6 to 7 weeks 50 Gy over 4 weeks
Regional Disease	
Lymph node regions, after lymph node dissection	
<ul> <li>Negative margins, no ECE</li> <li>Positive margins or ECE</li> </ul>	50–60 Gy over 5 to 6 weeks 60–66 Gy over 6 to 7 weeks
Lymph node regions, without lymph node dissection	
Clinically negative, at risk     Clinically positive	50 Gy over 5 weeks 60–70 Gy over 6 to 7 weeks
Clinically at-risk nerves	50-60 Gy over 5 to 6 weeks

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

SCC-E



附件三-1·



## Comprehensive Cancer Network® NCCN Guidelines Version 1.2022 Squamous Cell Skin Cancer

NCCN Guidelines Index
Table of Contents
Discussion

American Joint Committee on Cancer (AJCC)

TNM Staging Classification for Cutaneous Carcinoma of the Head and Neck (8th ed., 2017)<sup>1,2</sup>

Table 1. [	Definitions	for T.	N.	М
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rubio ii L	reminione for 1, 11, 11
T	Primary Tumor
TX	Primary tumor cannot be assessed
Tis	Carcinoma in situ
T1	Tumor smaller than or equal to 2 cm in greatest dimension
T2	Tumor larger than 2 cm, but smaller than or equal to 4 cm in greatest dimension
Т3	Tumor larger than 4 cm in maximum dimension or minor bone erosion or perineural invasion or deep invasion*
T4	Tumor with gross cortical bone/marrow, skull base invasion and/or skull base foramen invasion
T4a	Tumor with gross cortical bone/marrow invasion
T4b	Tumor with skull base invasion and/or skull base foramen involvement
*Deep inv	asion is defined as invasion beyond the subcutaneous fat or >6 mm

Deep invasion is defined as invasion beyond the subcutaneous fat or >6 mm (as measured from the granular layer of adjacent normal epidermis to the base of the tumor); perineural invasion for T3 classification is defined as tumor cells within the nerve sheath of a nerve lying deeper than the dermis or measuring 0.1 mm or larger in caliber, or presenting with clinical or radiographic involvement of named nerves without skull base invasion or transgression.

#### Clinical N (cN)

cN	Regional Lymph Nodes
NX	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(-)
N2	Metastasis in a single ipsilateral node larger than 3 cm but not larger that cm in greatest dimension and ENE(-);

Metastasis in a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-); or metastases in multiple ipsilateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-); or in bilateral or contralateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-)

N2a Metastasis in a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-)

N2b Metastases in multiple ipsilateral nodes, none larger than 6 cm in greatest dimension and ENE(-)

N2c Metastases in bilateral or contralateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-)

N3 Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-); or metastasis in any node(s) and clinically overt ENE [ENE(+)]

N3a Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-)

N3b Metastasis in any node(s) and ENE (+)

Note: A designation of "U" or "L" may be used for any N category to indicate metastasis above the lower border of the cricoid (U) or below the lower border of the cricoid (L). Similarly, clinical and pathological extranodal extension (ENE) should be recorded as ENE(-) or ENE(+).

<sup>2</sup> Used with the permission of the American College of Surgeons, Chicago, Illinois. The original source for this information is the AJCC Cancer Staging Manual, Eighth Edition (2017) published by Springer International Publishing

Continued

ST-1



<sup>&</sup>lt;sup>1</sup> These staging tables are for cutaneous squamous cell carcinoma, cutaneous carcinoma, basal cell carcinoma of the head and neck, and all other nonmelanoma skin carcinomas of the head and neck (except Merkel cell carcinoma). Anatomic site of external vermilion lip is included because it has a more similar embryologic origin to skin, and its etiology—which is often based on ultraviolet exposure—is more similar to other nonmelanoma skin cancers. The AJCC Staging Manual, Eighth Edition does not include staging for cutaneous carcinoma outside the head and neck.

附件三-2:



### NCCN Guidelines Version 1.2022 **Squamous Cell Skin Cancer**

NCCN Guidelines Index Table of Contents Discussion

American Joint Committee on Cancer (AJCC)

TNM Staging Classification for Cutaneous Carcinoma of the Head and Neck (8th ed., 2017)<sup>1,2</sup>

#### Pathological N (pN)

pΝ	Region	al Ly	/mph	Nodes

Regional lymph nodes cannot be assessed NX

N0 No regional lymph node metastasis

N1 Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(-)

N2 Metastasis in a single ipsilateral lymph node, 3 cm or smaller in greatest dimension and ENE(+); or larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-); or metastases in multiple ipsilateral lymph nodes, none larger than 6 cm in greatest dimension and ENE(-); or in bilateral or contralateral lymph node(s), none larger than 6 cm in greatest dimension, ENE(-)

Metastasis in single ipsilateral node 3 cm or smaller in greatest dimension and ENE(+); or a single ipsilateral node larger than 3 cm but not larger than 6 cm in greatest dimension and ENE(-)

Metastases in multiple ipsilateral nodes, none larger than 6 cm in greatest dimension and ENE(-)

Metastases in bilateral or contralateral lymph node(s), none larger than 6 cm in greatest dimension and N2c ENE(-)

**N**3 Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-); or in a single ipsilateral node larger than 3 cm in greatest dimension and ENE(+); or multiple ipsilateral, contralateral, or bilateral nodes, any with ENE(+); or a single contralateral node of any size and ENE(+)

Metastasis in a lymph node larger than 6 cm in greatest dimension and ENE(-)

Metastasis in a single ipsilateral node larger than 3 cm in greatest dimension and ENE(+); or multiple ipsilateral, contralateral, or bilateral nodes, any with ENE(+); or a single contralateral node of any size and ENE(+)

Note: A designation of "U" or "L" may be used for any N category to indicate metastasis above the lower border of the cricoid (Ŭ) or below the lower border of the cricoid (L). Similarly, clinical and pathological extranodal extension (ENE) should be recorded as ENE(-) or ENE(+).

Distant Metastasis

No distant metastasis

Distant metastasis

Histologic Grade

GΧ Grade cannot be assessed

Well differentiated

G2 Moderately differentiated

Poorly differentiated

G4 Undifferentiated

#### Table 2. AJCC Prognostic Stage Groups

	T	N	М	
Stage 0	Tis	N0	M0	
Stage I	T1	N0	M0	
Stage II	T2	N0	M0	
Stage III	T3	N0	M0	
	T1	N1	M0	
	T2	N1	M0	
	T3	N1	M0	
Stage IV	T1	N2	M0	
	T2	N2	M0	
	T3	N2	M0	
	Any T	N3	M0	
	T4	Any N	M0	
	Any T	Any N	M1	

<sup>1</sup> These staging tables are for cutaneous squamous cell carcinoma, cutaneous carcinoma, basal cell carcinoma of the head and neck, and all other nonmelanoma skin carcinomas of the head and neck (except Merkel cell carcinoma). Anatomic site of external vermilion lip is included because it has a more similar embryologic origin to skin, and its etiology—which is often based on ultraviolet exposure—is more similar to other nonmelanoma skin cancers. The AJCC Staging Manual, Eighth Edition does not include staging for cutaneous carcinoma outside the head and neck.

2 Used with the permission of the American College of Surgeons, Chicago, Illinois. The original source for this information is the AJCC Cancer Staging Manual, Eighth Edition (2017) published by Springer International Publishing.



### 附件四-1:chemotherapy regimen or metastasis

### 化學治療處方

chemotherapy regimen		
published C/T regimens	schedule	
Cisplatin, 100 mg/m2 IV D1	Q 21-28 days x 4 cycles	
5-FU, 1 g/m2 IV D1-3	Q 21-28 days x 4 cycles	



### 附件四-2:chemotherapy regimen & EGFRI or metastasis

### 化學治療處方

chemotherapy regimen & EGFRI		
published C/T regimens schedule		
Cisplatin 100 mg/m2 IV D1	Q 21 days * 6 cycles	
5-FU 1 g/m2 IV D1-4	Q 21 days * 6 cycles	
* Cetuximab 400 mg/m2 ; 250 mg/m2 IV	400 mg/m2 * Week 1 ; then 250 mg/m2 * QW	



<sup>\*</sup> Cetuximab could be continued as long as the response or the stabilization persisted

### 附件四-3:EGFRI or metastasis

### 化學治療處方

EGFRI	
published C/T regimens schedule	
•Cetuximab, 400 mg/m2 IV Week 1, then 250 mg/m2 QW	Till IV or unacceptable toxicity

<sup>\*</sup> Cetuximab could be continued as long as the response or the stabilization persisted





### NCCN Guidelines Version 1.2022 Squamous Cell Skin Cancer

NCCN Guidelines Index Table of Contents Discussion

#### PRINCIPLES OF SYSTEMIC THERAPY

Local Disease (Including Multiple Primaries) Amenable to Curative Surgery

· Systemic therapy is not recommended.

Primary and Recurrent Locally Advanced Disease in Non-Surgical Candidates (See SCC-3)

- For patients who have residual disease and further surgery is not feasible, recommend RT, and multidisciplinary teams can consider concurrent systemic therapy in select cases (Table 1).
- For patients who have complicated cases of locally advanced disease in which curative surgery and curative RT are not feasible,<sup>1</sup> recommend multidisciplinary consultation to consider systemic therapy alone (Table 2).

New Regional Disease (See SCC-4 and SCC-5)

- For most cases of fully resected regional disease, adjuvant systemic therapy is not recommended, unless within a clinical trial.
- For patients with resected high-risk regional disease, consider RT ± systemic therapy (Table 1).
- For patients with unresectable, inoperable, or incompletely resected disease, multidisciplinary consultation is needed to consider:
- ▶ RT ± systemic therapy (Table 1)
- ▶ Systemic therapy alone if curative RT not feasible<sup>1</sup> (Table 2)

Regional Recurrence or Distant Metastatic Disease (See SCC-6)

 For regional recurrence or distant metastases, multidisciplinary team can consider systemic therapy alone (Table 2) or in combination with RT (Table 1).

Other Recommended Regimens	Useful in Certain Circumstances
• None	<ul> <li>EGFR inhibitors (eg, cetuximab)<sup>2</sup></li> <li>Cisplatin + 5-FU<sup>2</sup></li> <li>Carboplatin ± paclitaxel<sup>2,5,6</sup></li> </ul>
Other Recommended Regimens	Useful in Certain Circumstances
<ul> <li>If ineligible for or progressed on immune checkpoint inhibitors and clinical trials,</li> </ul>	<ul> <li>If ineligible for or progressed on immune checkpoint inhibitors and clinical trials, consider</li> </ul>
consider: ▶ Carboplatin + paclitaxel	<ul> <li>▶ EGFR inhibitors (eg, cetuximab)²</li> <li>▶ Capecitabine</li> <li>▶ Cisplatin²</li> <li>▶ Cisplatin + 5-FU²</li> <li>▶ Carboplatin²</li> </ul>
	Other Recommended Regimens  • If ineligible for or progressed on immune checkpoint inhibitors and clinical trials, consider:

See Footnotes and References on SCC-F (2 of 2)

Note: All recommendations are category 2A unless otherwise indicated.

Clinical Trials: NCCN believes that the best management of any patient with cancer is in a clinical trial. Participation in clinical trials is especially encouraged.

/ \_\_\_\_\_\_**K** 

### Reference

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- 2. Am J Clin Dermatol. 2016 Oct;17(5):491-508. Cutaneous Squamous Cell Carcinoma: A Review of High-Risk and Metastatic Disease.
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