TeleECHO Series

PRINCIPLES OF TREATMENT:

The Multi-Disciplinary Approach to the Patient with Locally Advanced/Metastatic BCC

Saturday, February 27, 2021

FACULTY

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Austin, TX









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PRINCIPLES OF TREATMENT:

The Multi-Disciplinary Approach to the Patient With Locally Advanced/Metastatic BCC

AGENDA

- Basal Cell Carcinoma: Introduction
 - Epidemiology/statistics
 - o Prognostic factors
 - Staging
 - o NCCN guidelines
 - Considerations for aggressive BCC
- BCC Failing or Not Amenable to Surgery or Radiation
 - Sonic hedgehog pathway
 - Vismodegib and sonidegib
 - Hedgehog side effects
 - o Alternate dosing regimens
- When Disease Progresses on Hedgehog Inhibition
 - o Immunotherapy and immune checkpoints
 - Cemiplimab, pembrolizumab, etc.
- Case Study Presentation
- Conclusions

TeleECHO Series: Principles of Treatment: The Multi-Disciplinary Approach to the Patient With Locally Advanced/Metastatic BCC

FACULTY CHAIR

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Vice-Chair of Surgical Oncology, Brigham and Women's Department of Dermatology
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PROGRAM OVERVIEW

These live virtual TeleECHO® sessions will be a faculty-led didactic and case-based lecture focusing on treatment and management of patients with patients with advanced/metastatic basal cell skin cancer.

TARGET AUDIENCE

This activity is designed to meet the educational needs of medical oncologists, oncodermatologists, dermatologists, Mohs surgeons, and other healthcare practitioners who care for patients with advanced/metastatic basal cell skin cancer.

LEARNING OBJECTIVES

Upon completion of the program, attendees should be able to:

- Discuss the pathogenesis of metastatic BCC and the attendant involvement of both aberrant pathways and immune dysfunction
- Examine the epidemiology of basal cell carcinoma including prevalence, risk factors, and disease burden
- Apply NCCN practice guidelines for a multi-disciplinary approach to treatment of locally advanced and metastatic BCC
- Explore the clinical trial data for emerging immunotherapy agents in the treatment of advanced or metastatic basal cell skin cancer

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Purpose: This program would be beneficial for nurses involved in the care of patients with advanced/metastatic basal cell skin cancer. **CNE Credits:** 1.0 ANCC Contact Hour.

Accreditation Statement

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Anna Bar, MD receives consulting fees from Regeneron Pharmaceuticals. She received research funding to her institution from Castle, Pelle Pharm and Mavis.

Anokhi Jambusaria, MD, MSCE serves on the advisory board for Regeneron Pharmaceuticals.

Justin Leitenberger, MD has nothing to disclose.

Emily Ruiz, MD, MPH receives consulting fees from Sanofi, Pelle Pharm Inc., and Jounce Therapeutic. She discloses other commercial interests with Leo Pharma, Checkpoint Therapeutics, and Jounce Therapeutic.

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TeleECHO Series: Principles of Treatment: The Multidisciplinary Approach to the Patient With Locally Advanced/Metastatic BCC

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Disclosures

- Dr. Jambusaria receives a consulting fees from Regeneron Pharmaceuticals.
- During the course of this lecture, Dr. Jambusaria may mention the use of medications for both US Food and Drug Administration (FDA)-approved and non-FDA-approved indications
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This activity is supported by an independent medical education grant from Regeneron Pharmaceuticals, Inc. and Sanofi Genzyme.

Learning Objectives

- Discuss the pathogenesis of metastatic BCC and the attendant involvement of both aberrant pathways and immune dysfunction
- Examine the epidemiology of BCC including prevalence, risk factors, and disease burden
- Apply practice guidelines for a multidisciplinary approach to the treatment of locally advanced and metastatic BCC
- Explore the clinical trial data for emerging immunotherapy agents in the treatment of advanced or metastatic basal cell skin cancer

Aggressive BCC

Is there such a thing?

Does BCC have a Risk of Metastasis?

- Rates of .0028% to 0.55% reported1-3
- In 1 study of predictive factors: 11,905 BCCs diagnosed between 2000 and 2009 at Brigham and Women's Hospital and Massachusetts General were screened³
- 248 cases ≥ 2 cm assessed for risk factors and metastasis/death³
- 248 cases < 2 cm randomly selected for comparison³

1. von Domarus H, Stevens PJ. J Am Acad Dermatol. 1984;10(6): 1043-1060. 2. Snow SN, et al. Cancer. 1994;73(2):328-335. 3. Morgan F, et al. J Am Acad Dermatol. 2020;83:832-838.

Factors predictive of recurrence, metastasis, and death from primary basal cell carcinoma 2 cm or larger in diameter

Frederick C. Morgan, BSPH, ^a Emily Stamell Ruiz, MD, MPH, ^a Pritesh S. Karia, MPH, ^{a,b} Robert J. Besaw, MPH, ^a Victor A. Neel, MD, PhD, ^c and Chrysalyne D. Schmults, MD, MSCE Boston, Massachusetts; Baltimore, Maryland; and Providence, Rhode Island

Multivariable logistic regression of ≥ 2 cm BCC tumors

	Local Recurrence		Metastasis and/or Death	
Variable	OR (95% CI)	P	OR (95% CI)	P
Location				
Other	1 (reference)		1 (reference)	
Head and neck	9.7 (3.0-31.3)		5.3 (1.2-23.2)	.026
Diameter				
Other	_		1 (reference)	
≥ 4cm	_		11.9 (2.4-59.4)	.003
Tumor depth				
Other	1 (reference)		1 (reference)	
Beyond fat	3.1 (1.0-9.6)	.049	28.6 (6.7-121.0)	<.001
Treatment modality				
Other	1 (reference)		_ =	
Mohs micrographic surgery	0.14 (.04-0.5)	.002	_	_

BCC > 4 cm on the head and neck, and invading beyond subcutaneous fat, may warrant more aggressive follow-up and radiologic imaging.

Morgan F, et al. J Am Acad Dermatol. 2020;83:832-838.

BCC Prognostic Factors

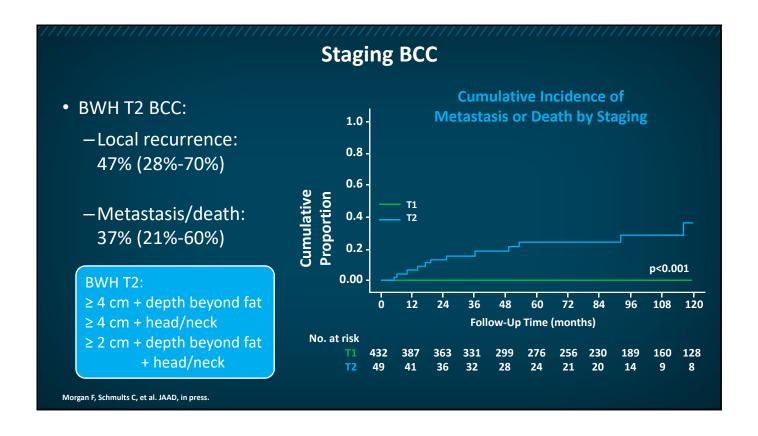
- < 2 cm group had no metastasis/death
- In ≥ 2 cm group, 3 significant predictors of metastasis/death:
 - Diameter ≥ 4 cm or larger
 - Depth beyond subcutaneous fat
 - Head/neck location

Morgan F, et al. J Am Acad Dermatol. 2019;83:832-838.

Morgan F, Schmults C, et al. JAAD, in press.

Staging BCC

Definition		
or Cutaneous Carcinoma of the Head and Neck		
< 2 cm in greatest diameter		
≥ 2 cm but < 4 cm in greatest diameter		
≥ 4 cm in greatest diameter or minor bone invasion or perineural invasion or deep invasion		
Tumor with gross cortical bone and/or marrow invasion		
Tumor with skull bone invasion and/or skull base foramen involvement		
BWH T Staging for BCC		
Tumor diameter < 2 cm or tumor diameter ≥ 2 cm with 0-1 risk factors		
Tumor diameter ≥ 2 cm with 2-3 risk factors		

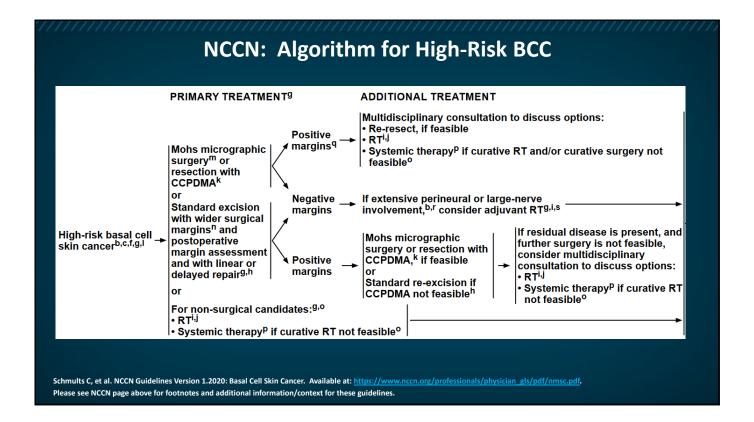


CCPDMA Cuts Recurrence Risk in Half for High-Risk BCC

	Recurrence Risk:	Recurrence Risk:
	Recurrent BCC,	Aggressive Subtype BCC,
	n (%)	n (%)
CCPDMA	132/2911 (4.5%)	97/3149 (3%)
SA	32/263 (12%)	17/234 (7%)
p value	p < .001	P < .001
Risk Ratio	.37 [.2654]	.42 [.2670]

CCPDMA = complete circumferential peripheral and deep margin assessment; SA = Standard Margin Assessment (vertical sections)

Fraga S, Waldman A. Complete marginal assessment in surgically excised keratinocyte carcinoma: A systematic review. Under review.



Lack of Adherence to NCCN for High-Risk BCC/SCC

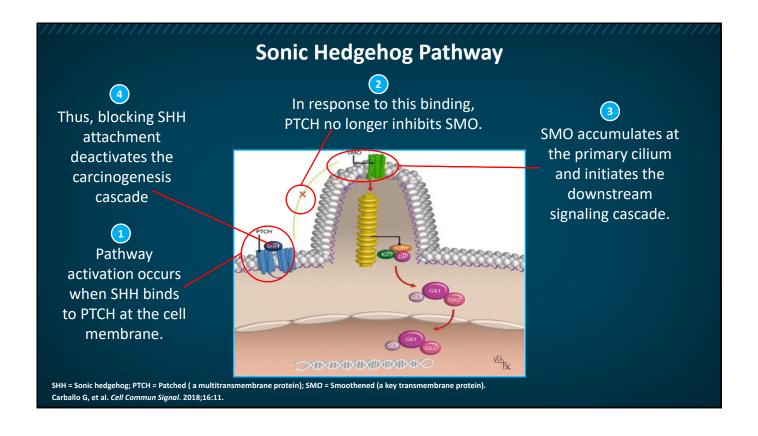
- Survey study of physicians from the 23 NCCN institutions
- ~50% response, N = 57
- Use of CCPDMA in a majority of NCCN high-risk cases
 - 14/15 Mohs surgeons
 - 10/16 other surgeons, dermatologists, radiation oncologists
 - 2/6 pathologists
- Reasons for not using CCPDMA
 - Surgeons defer to pathologists to determine appropriate margin assessment methods
 - Logistical difficulties (time-consuming, overnight stays, open wounds)

NCCN = National Comprehensive Cancer Network; SCC = squamous cell carcinoma Danesh M, et al. *Dermatologic Surgery*. 2020;46:1473-1480.

Conclusions: Aggressive BCC

- BWH T2 BCC may have a risk of local recurrence and metastasis in excess of 20%
 - ≥ 4 cm + depth beyond fat
 - ≥ 4 cm + head/neck
 - ≥ 2 cm + depth beyond fat + head/neck
- Do Mohs surgery (or CCPDMA if needed, OR resection)
- Beware of multiply recurrent BCC
- Radiologic surveillance for recurrence
- Consider off-label adjuvant systemic therapy in extreme or multiply recurrent cases

BCC Failing or Not Amenable to Surgery and Radiation



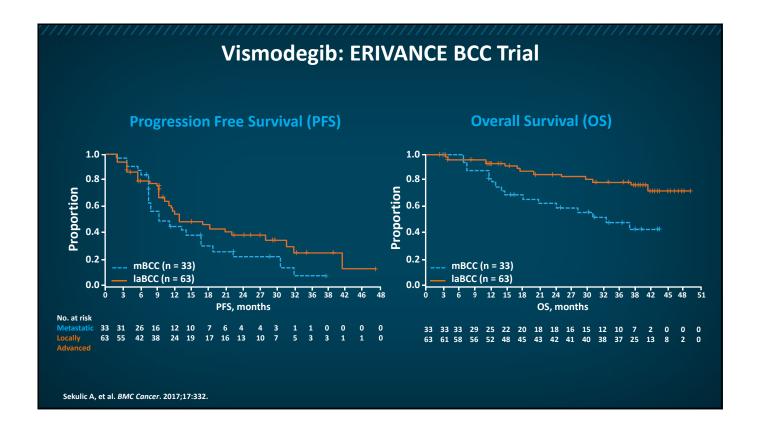
Vismodegib

- Indications
 - Metastatic BCC
 - Locally advanced BCC that has recurred following surgery, or in those who are not candidates for surgery/radiation
- Dosage: oral; 150 mg once daily
- Contraindications: none
- · Boxed warning: embryo-fetal toxicity

	mBCC (n = 33)	laBCC (n = 63)
ORR	30.3%	42.9%
Complete Response	0%	20.6%
Partial Response	30.3%	22.2%
Median Response Duration	7.6 months	7.6 months

mBCC = metastic BCC; laBCC = locally advanced BCC; ORR = objective response rate.

Sekulic A, et al. N Eng J Med. 2012;366:2171-2179. Vismodegib (Erivedge®) PI 2020 (https://www.gene.com/download/pdf/erivedge_prescribing.pdf). Accessed December 10, 2020.

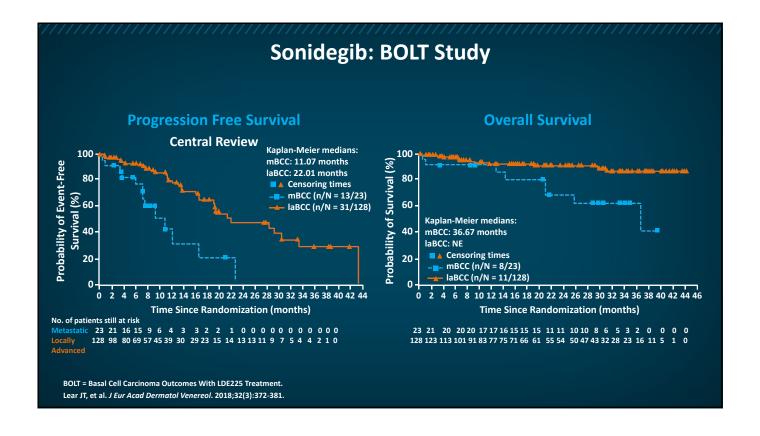


Sonidegib

- Indications
 - Locally advanced BCC that has recurred following surgery, or in those who are not candidates for surgery/radiation
- Dosage: oral; 200 mg once daily
- Contraindications: none
- · Boxed warning: embryo-fetal toxicity

	laBCC (n = 66)
ORR	56.0%
Complete Response	5%
Partial Response	52%
Median Response Duration	26.1 months

Sonidegib (Odomzo®) PI 2019 (https://www.odomzo.com/themes/custom/odomzo/global/pdfs/pi.pdf).



Efficacy, safety, and comparison of sonic hedgehog inhibitors in basal cell carcinomas: A systematic review and meta-analysis Pingxing Xie, MD, PhD, and Philippe Lefrançois, MD, PhD • 16 studies: quantitative meta-analysis of safety and efficacy Locally advanced BCC - Overall Response Rate: comparable for vismodegib and sonidegib (69% vs 57%) - Complete Response Rate: superior for vismodegib (31% vs 3%) Metastatic BCC Overall Response Rate: superior for vismodegib (39% vs 15%) Side effects (combined prevalence) - 67%, 54%, and 58% for muscle spasms, dysgeusia, and alopecia, respectively; comparable for sonidegib and vismodegib - Upper GI distress more common in sonidegib than in vismodegib use Vismodegib favored over sonidegib in clinical practice Xie P, Lefrançois P. J Am Acad Dermatol 2018;79:1089-1100.

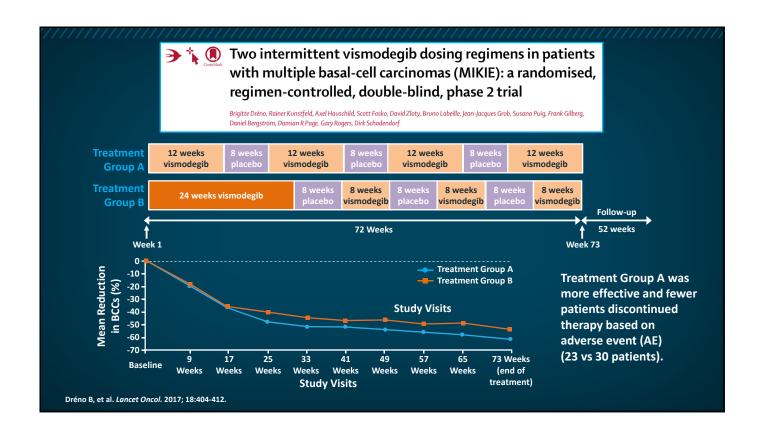
Hedgehog Side Effects

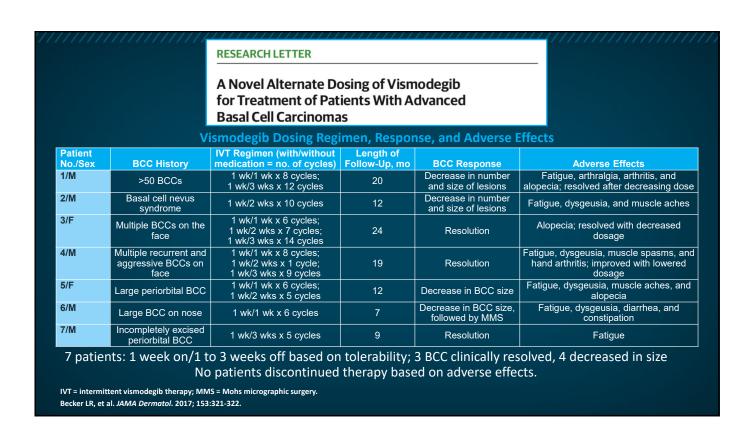
- Hedgehog inhibitor side effects are not life-threatening but are nearly universal and often severe
- High rate of discontinuation in clinical trials (20%-50%)
 - Debilitating muscle pain/cramping
 - Loss of taste leading to major weight loss
 - Hair loss is often severe
- Alternatives to daily dosing are often used (though minimally studied)
 - A dosing regimen of 1 to 2 weeks on, 1 week off, is what we employ
 - Impact on efficacy unknown but such modifications are often needed to remain on treatment

Migden M, et al. Lancet Oncology. 2015;16:716-728. Dummer R, et al. Br J Dermatol. 2020;182(6):1369-1378. Sekulic A, et al. BMC Cancer. 2017;17:332. Sekulic A, et al. N Eng J Med. 2012;366:2171-2179. Villani A, et al. Dermatol Ther. 2020;10:401-412.

Alternate Dosing Regimens

- More tolerable than continuous therapy, with comparable effectiveness
- Impact on secondary resistance undefined
- BCC managed using hedgehog inhibitor (HHI) is comparable to chronic disease management or palliation
- May take months, weeks, or days off without loss of effectiveness





Outcomes for Basal Cell Carcinoma Treated With Vismodegib Extended Alternate Day Dosing

- 8 patients
- Vismodegib 150 daily x 3 months, then extended alternate day dosing as tolerated
 - Every other day to once weekly dosing
 - Mean reduction in tumor size: ~50%
 - 4 patients experienced no side effects,
 4 experienced mild side effects that
 - improved/resolved with further extended alternate day dosing



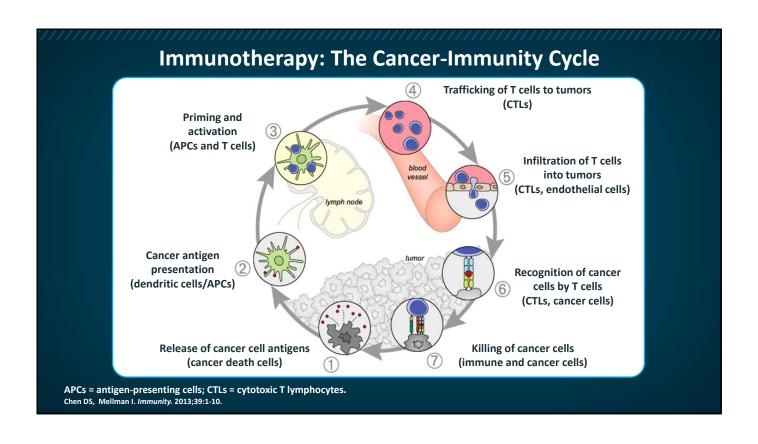


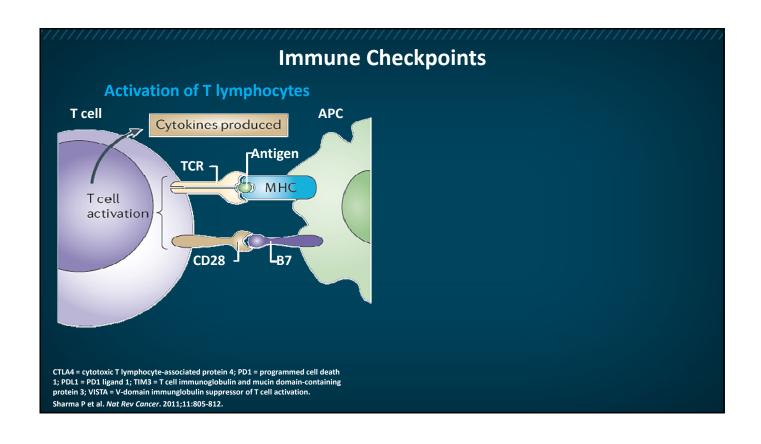
Before

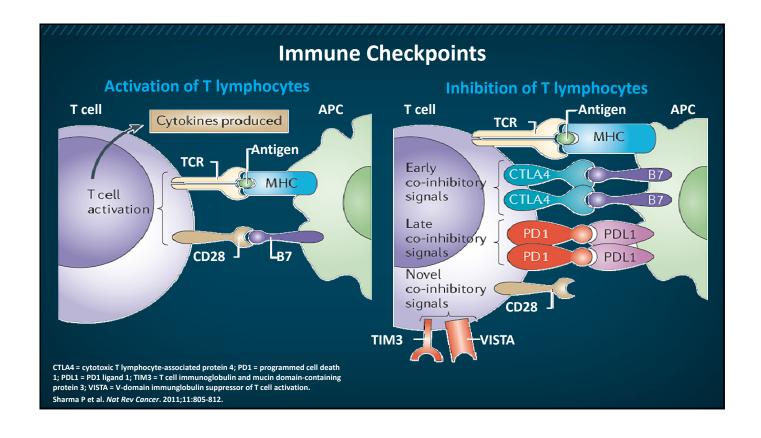
Every 4 days x 10 months

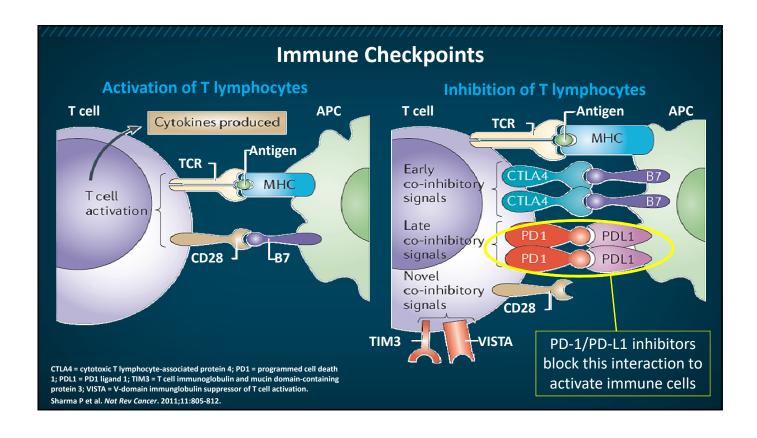
Routt E, Ratner D. Dermatol Surg. 2020;46:1109-1112.

When Disease Progresses on Hedgehog Inhibition?









Cemiplimab

- Feb 9, 2021: First FDA-approved immunotherapy for BCC (advanced cases previously treated with HHI)
 - Also indicated for metastatic cutaneous SCC and laSCC

Trial of cemiplimab for those not tolerating or progressing on HHI

	laBCC (n = 84)
ORR	31.0%
Complete Response	6.0%
Partial Response	25.0%
Response	85% responses ongoing at 12 months
Estimated PFS (all patients)	19 months

Stratigos AJ, et al. Ann Oncology. 2020;31:S1175-S1176.

Cemiplimab

- Median baseline TMB: 58.2 (responding; n = 18) and 23.5 (non-responding; n = 38) mutations/Mb
- Responses occurred at all TMB levels
- Downregulation of MHC-I expression identified as an immune evasion mechanism in non-responding BCCs with high TMB
- Adverse events: fatigue (30%), diarrhea (24%) and pruritus (21%)
- 17% of patients discontinued due to AEs

TMB = tumor mutational burden; MHC = major histocompatibility complex. Stratigos AJ, et al. *Ann Oncology*. 2020;31:S1175-S1176.

Pembrolizumab With/Without Vismodegib for Advanced BCC

	All Participants (N = 16)	Pembrolizuamb (n = 9)	Pembrolizumab + Vismodegib (n = 7)
ORR	38%	44%	29%
1-yr PFS	70%	62%	83%
1-yr OS	94%	89%	100%

- No life-threatening AEs or deaths during the study
- 3 grade 3 AEs occurred out of 98 AEs from 16 participants (1 case of hyponatremia attributed to pembrolizumab)
- 23 immune-related AEs (grade 1/2 dermatitis and fatigue most common)

Chang A, et al. J Am Acad Dermatol. 2019:564-566.

Not currently FDA approved for BCC

Pembrolizumab: Best % Change in BCC Diameter From Baseline 30 20 Best change from baseline (%) -2.5 -20 -40 -50 ■ pembrolizumab monotherapy ■ pembrolizumab + vismodegib -60 complete response after study discontinuation, on off-label treatment + still on study -70 -80 -81 -100 Not currently FDA approved for BCC Chang A, et al. J Am Acad Dermatol. 2019:564-566.

Summary

- Advanced BCC is best managed using multidisciplinary consultation
- Diameter > 4 cm, head/neck location, and/or invasion beyond subcutaneous fat significantly increase risk for local recurrence, metastasis, and death
- Vismodegib outperforms sonidegib in a recent meta-analysis on safety and efficacy
- Alternate dosing regimens increase tolerability without compromising efficacy
- Immune checkpoint therapy is now approved (cemiplimab) and is useful in cases of hedgehog inhibitor progression or intolerance

Cases



Locally Aggressive BCC: Case 2

Courtesy of Dr. Chrysalyne Schmults

- A 58-year-old healthy man with BCC on right nasal sidewall initially presented in 2012
- Status post (S/P) radiation as primary therapy "to avoid bone resection near eye"

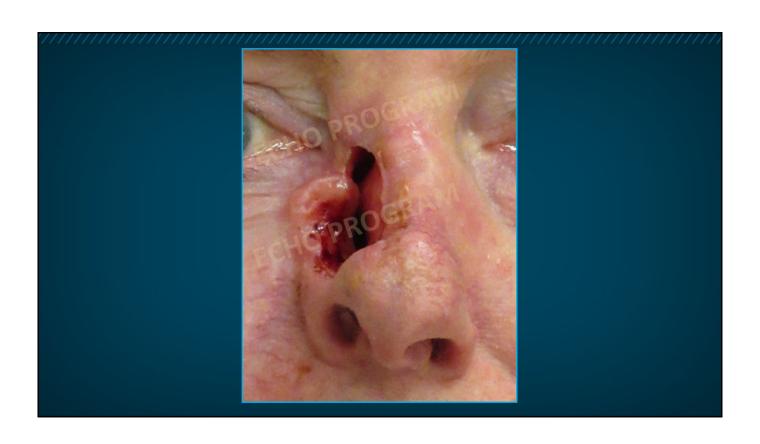
Aggressive BCC

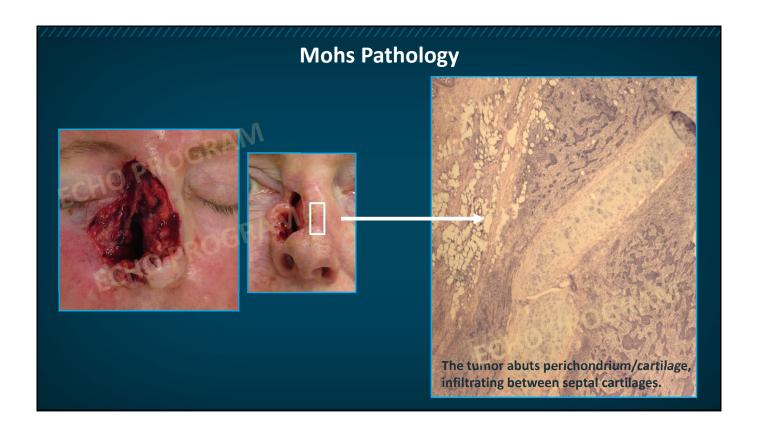
- 2015 to 2016: 5 subsequent recurrences excised by plastic surgeon with in-office frozen sections read by pathologist as clear
- At sixth recurrence the patient is referred for salvage radiation
- Radiation oncologist, in turn, referred the patient to the cancer center

What would be your next step in assessing this patient?

Aggressive BCC

- Magnetic resonance imaging (MRI): tumor abuts bone, no sinus/orbit/nerve invasion
- No metastasis on neck/chest computed tomography (CT)





Mohs cleared all but nasal bone and turbinate mucosa (purple outline)
 Head/neck surgeon Dr. Jason Kass requested en face assessment of

posterior resection



Locally Aggressive BCC: Polling Question

The NCCN recommends which of the following at this point?

- 1. CCPDMA
- 2. Radiation
- 3. Systemic agent
- 4. Something else

- Mohs cleared all but nasal bone and turbinate mucosa (purple outline)
- Head/neck surgeon Dr Jason Kass requested en face assessment of posterior resection
- NCCN: Recommends CCPDMA for high-risk BCC that can't be closed primarily



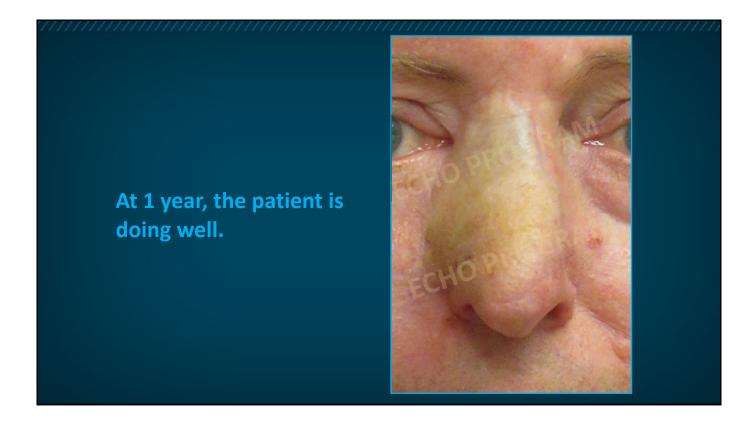


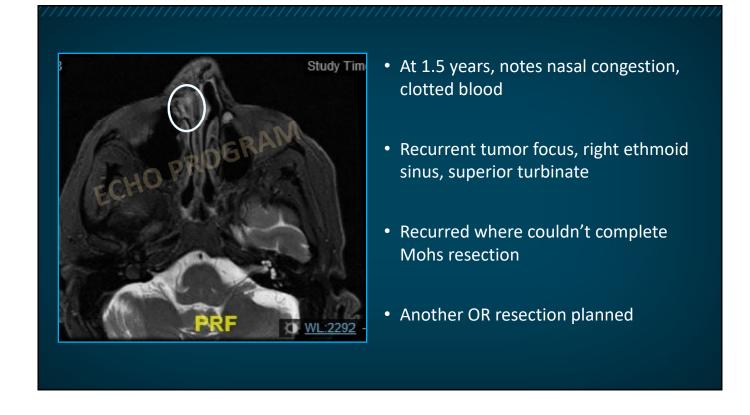
Margin clear but bony margin not processed en face

Septal bone graft (from radius) and free flap via Dr. Jason Kass



- Local recurrence: 47% (28%-70%)
- Metastasis: 37% (21%-60%)
- Adjuvant radiation?
 - No data on risk reduction
 - May compromise current reconstruction and make future surgery difficult
- Adjuvant vismodegib?
 - No data on risk reduction in adjuvant setting
 - Difficult side effect profile
 - Offered but declined
- Follow-up every 6 months with face MRI and neck CT every 2 to 3 years





Despite Pre-Op Imaging and Multiple Scouting Biopsies to Aid Resection Planning, Margins Were Diffusely Positive

- In bone, underside of prior flap, lacrimal duct
- Patient declined rhinectomy and further maxilla resection

Next Steps for This Patient

- Vismodegib daily with complete response radiologically at 8 months but with extreme cachexia
- Tumor recurred during drug holiday
 - Again declined surgery
 - Currently weighing radiation vs vismodegib retrial vs cemiplimab





Locally Aggressive BCC: Polling Question

What Do You Offer as Preferred Therapy?

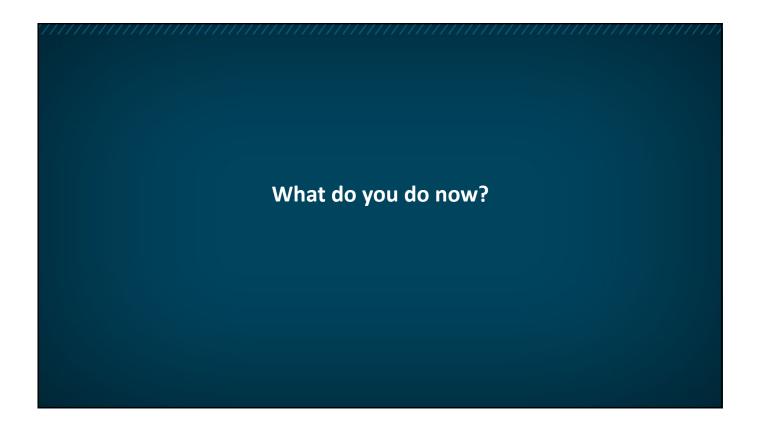
- A. Observation as progression has been slow over many years
- B. Excision via forequarter amputation
- C. Definitive radiation therapy
- D. Oral hedgehog inhibitor therapy
- E. Anti-PD1 immunotherapy

Locally Aggressive BCC: Polling Question

What Do You Offer as Preferred Therapy?

- A. Observation as progression has been slow over many years
 - –No, he's in pain and seeking care
- B. Excision via forequarter amputation
 - -Nodal metastasis makes this unlikely to control disease
- C. Definitive radiation therapy
 - –Field is too large
- D. Oral hedgehog inhibitor therapy
- E. Anti-PD1 immunotherapy





Case 4

BCC With Distant Metastasis Case courtesy of Dr Emily Ruiz

- 60-year-old male
- 2000: initial treatment of BCC on left upper back with ED&C
- 2011: retreated with ED&C but lesion never healed
- 2013: second recurrence, biopsy-proven infiltrative BCC, treated with excision with frozen sections with negative margins on final sections
- 2017: developed axillary pain that was not worked up
- 2018: incidental lung tumors noted on CT scan performed for another chief complaint
- 2018: biopsy of axillary node confirmed diagnosis of metastatic BCC

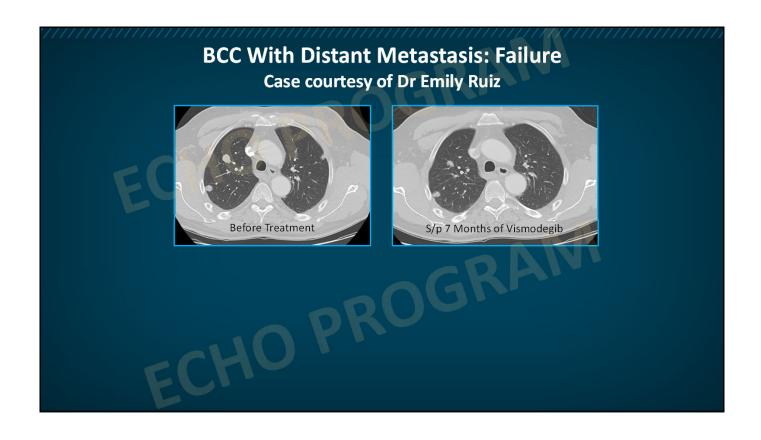
ED&C: electrodesiccation and curettage

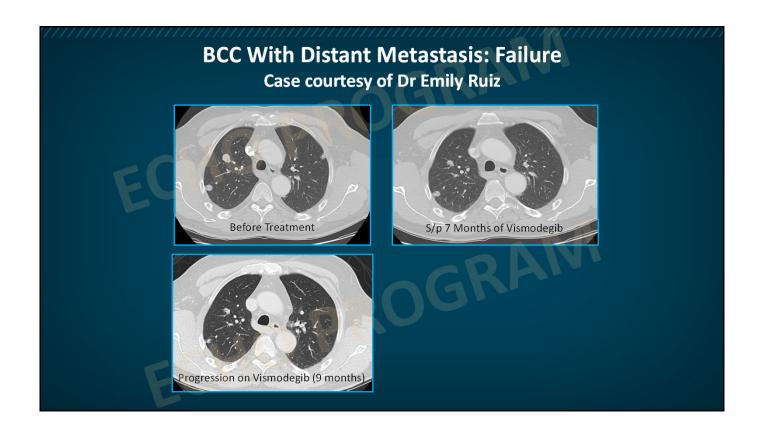


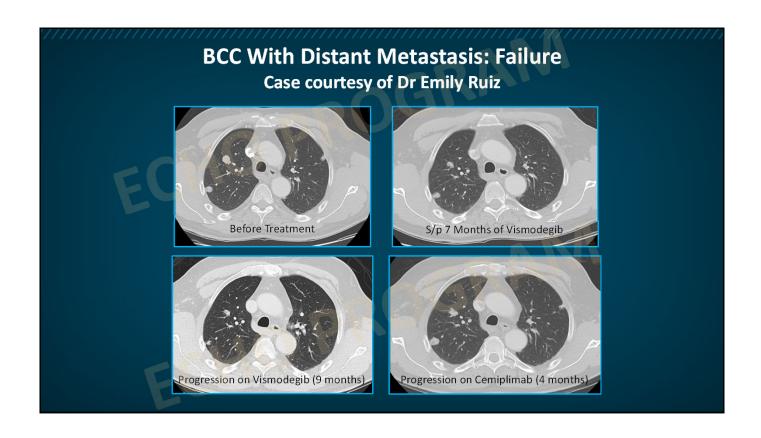
Locally Aggressive BCC: Polling Question

Which of the following options would you try at this point?

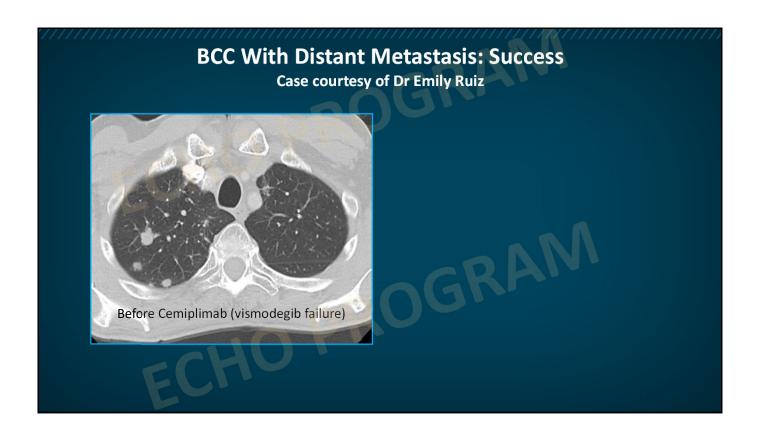
- 1. Radiation
- 2. Surgery
- 3. Hedgehog inhibitor
- 4. Anti-PD1 inhibitor
- 5. Conventional chemotherapy
- 6. Observation

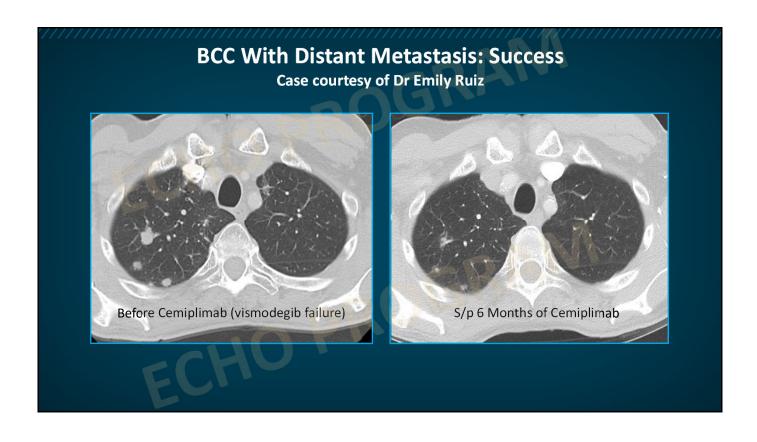








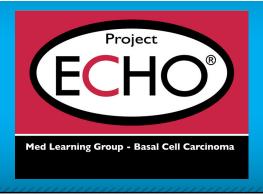


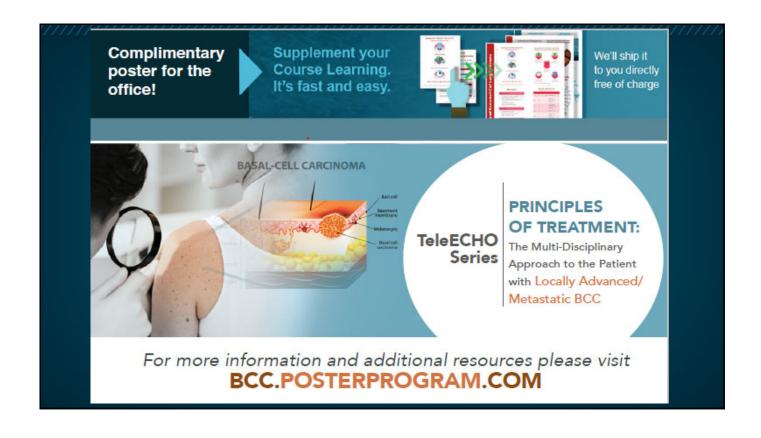


Conclusions

- BCC is the most common form of skin cancer worldwide
- BCCs are slow-growing and rarely metastasize; however, they are locally invasive and can be destructive
- BCC pathogenesis and the implications of aberrant pathways and immune dysfunction continue to be clarified
- Therapy selection depends on the patient's age and gender, along with site, size, and type of lesion
- Current mainstay of BCC treatment involves surgical modalities (excision, electrodesiccation and curettage [EDC], cryosurgery, Mohs surgery)
- Systemics include the HHIs vismodegib and sonidegib; there is now FDA-approved therapy for laBCC post-HHI (cemiplimab – Feb/2021); other PD1/PDL1 inhibitors are under investigation

Thank You!





Basal Cell Carcinoma: Identification and Management

Resource	Address
Ascierto PA, et al. Immunotherapy in non-melanoma skin cancer: Updates and new perspectives. <i>Drugs Context</i> . 2019;8:212583.	https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC6434981/
Carballo GB, et al. A highlight on sonic hedgehog pathway. <i>Cell Commun Signal</i> . 2018;16:11.	https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC5861627/
Cameron MC, et al. Basal cell carcinoma: Epidemiology; pathophysiology; clinical and histological subtypes; and disease associations. <i>J Am Acad Dermatol</i> . 2019;80:303-317.	https://pubmed.ncbi.nlm.nih.gov/29782900/
Cameron MC, et al. Basal cell carcinoma: Contemporary approaches to diagnosis, treatment, and prevention. <i>J Am Acad</i> <i>Dermatol</i> . 2019;80:321-339.	https://pubmed.ncbi.nlm.nih.gov/29782901/
Chang ALS, et al. Pembrolizumab for advanced basal cell carcinoma: An investigator-initiated, proof-of-concept study. <i>J Am Acad Dermatol</i> . 2019;80:564-566.	https://www.jaad.org/article/S0190- 9622(18)32471-X/pdf
Chen DS, et al. Oncology meets immunology: The cancer-immunity cycle. <i>Immunity</i> . 2013;39:1-10.	https://pubmed.ncbi.nlm.nih.gov/23890059/
Danesh MJ, et al. Adherence to the National Comprehensive Cancer Network Criteria of Complete Circumferential Peripheral and Deep Margin Assessment in Treatment of High-Risk Basal and Squamous Cell Carcinoma. <i>Dermatologic Surg</i> . 2020;46:1473-1480.	https://pubmed.ncbi.nlm.nih.gov/32149872/
Dréno B, et al. Two intermittent vismodegib dosing regimens in patients with multiple basal-cell carcinomas (MIKIE): A randomised, regimen-controlled, doubleblind, phase 2 trial. <i>Lancet Oncol.</i> 2017;18:404-412.	https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(17)30072-4/fulltext

Dummer R, et al. Long-term efficacy and safety of sonidegib in patients with advanced basal cell carcinoma: 42-month analysis of the phase II randomized, doubleblind BOLT study. <i>Br J Dermatol</i> . 2020;182:1369-1378.	https://pubmed.ncbi.nlm.nih.gov/31545507/
McDaniel B, et al. Basal Cell Carcinoma. In: StatPearls [Internet]. Treasure Island, FL: StatPearls Publishing. Updated November 20, 2020.	https://www.ncbi.nlm.nih.gov/books/NBK48 2439/
Migden MR, et al. Emerging trends in the treatment of advanced basal cell carcinoma. Cancer Treat Rev. 2018;64:1-10.	https://pubmed.ncbi.nlm.nih.gov/29407368/
Morgan FC, et al. Factors predictive of recurrence, metastasis, and death from primary basal cell carcinoma 2 cm or larger in diameter. <i>J Am Acad Dermatol</i> . 2020;83:832-838.	https://pubmed.ncbi.nlm.nih.gov/31600531/
Paulson KG, et al. Immunotherapy for skin cancer. <i>Int Immunol</i> . 2019;31:465-475.	https://pubmed.ncbi.nlm.nih.gov/30753483/
Sekulic A, et al. Long-term safety and efficacy of vismodegib in patients with advanced basal cell carcinoma: final update of the pivotal ERIVANCE BCC study. <i>BMC Cancer</i> . 2017;17:332.	https://bmccancer.biomedcentral.com/articles/10.1186/s12885-017-3286-5
Sekulic A, et al. Efficacy and safety of vismodegib in advanced basal-cell carcinoma. <i>N Eng J Med</i> . 2012;366:2171-2179.	https://www.nejm.org/doi/full/10.1056/nej moa1113713
Stratigos AJ, et al. LBA47 Primary analysis of phase II results for cemiplimab in patients (pts) with locally advanced basal cell carcinoma (laBCC) who progress on or are intolerant to hedgehog inhibitors (HHIs). <i>Ann Oncology</i> . 2020;31(suppl 4):S1175-S1176.	https://www.annalsofoncology.org/article/S0 923-7534(20)42359-2/abstract
Stratigos AJ, et al. European interdisciplinary guideline on invasive squamous cell carcinoma of the skin: Part 2. Treatment. <i>Eur J Cancer</i> . 2020;128:83-102.	https://pubmed.ncbi.nlm.nih.gov/32113942/

Tanese K. Diagnosis and management of basal cell carcinoma. <i>Curr Treat Options Oncol</i> 2019;20:13.	https://pubmed.ncbi.nlm.nih.gov/30741348/
Totonchy M, et al. Emerging concepts and recent advances in basal cell carcinoma. <i>F1000Res</i> . 2017;6:2085.	https://www.ncbi.nlm.nih.gov/pmc/articles/ PMC5717469/
Xie P, et al. Efficacy, safety, and comparison of sonic hedgehog inhibitors in basal cell carcinomas: A systematic review and meta-analysis. <i>J Am Acad Dermatol</i> . 2018;79:1089-1100.e17.	https://pubmed.ncbi.nlm.nih.gov/30003981/

Resources and Societies

Resource	Address
American Academy of Dermatology (AAD). <i>Skin Cancer</i> .	https://www.aad.org/media/stats-skin-cancer
American Cancer Society (ACS). Basal and Squamous Cell Skin Cancer.	https://www.cancer.org/cancer/basal-and- squamous-cell-skin-cancer.html
American Society of Clinical Oncology (ASCO).	https://www.asco.org/
Centers for Disease Control and Prevention (CDC). What Is Skin Cancer?	https://www.cdc.gov/cancer/skin/basic_info/what-is-skin-cancer.htm
National Comprehensive Cancer Network. NCCN Clinical Practice Guidelines in Oncology. Basal Cell Skin Cancer. Version 1.2020.	https://www.nccn.org/professionals/physician_gls/pdf/nmsc.pdf
Skin Cancer Foundation. Basal Cell Carcinoma Overview.	https://www.skincancer.org/skin-cancer- information/basal-cell-carcinoma/