Insurance type, treatment, and survival outcomes in Merkel cell carcinoma: A National Cancer Database Analysis Rachel C. Chang, BS, Elise K. Brunsgaard, MD, David C. Reid, MD **RUSH University Medical Center, Chicago, Illinois**

Introduction

- Merkel cell carcinoma (MCC) is a rare, aggressive skin cancer with metastatic potential. The relationship between insurance status and clinical outcomes in MCC patients is unclear.
- This study aimed to evaluate association between the insurance type the on presentation, treatment, and survival probability of patients with MCC.

Methods

The National Cancer Database was retrospectively analyzed for patients diagnosed with MCC from 2016 to 2020. Differences in at diagnosis, stage disease and survival were treatment, analyzed. Binomial test was performed for categorical ANOVA variables and was performed continuous. for Survival differences were examined with Cox proportional hazards models and Kaplan-Meier curves.

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able 1 Demographics				Of the $07/2$ nation identif
	Total, N = 9742		•	had Medicare (77.9%), foll
	No.	%		(19.8%), Medicaid (1.5%), a
Age, groups			•	compared to private inst patients and those on Medic
≤ 29	17	0.2		risk of presenting with adv
30-49	152	1.6		(95% CI 1.03 - 1.51 and 1.0
50-69	2727	28.0	•	Uninsured patients were
70-89	6183	63.5		indicating the presence of
≥ 90	663	6.8		private insurance patients.
Sex			•	Regarding treatment, 95.9
Female	3504	36.0		some form of intervention.
Male	6238	64.0		received immunotherapy in
Race				therapy, and 4.9% received
White	9335	95.8	•	Uninsured patients were mo
Black	159	1.6		(5.88% vs 3.13%, p < 0.001)
Asian/ Pacific Islander	26	0.3	•	When surgery was admir
Other	150	1.5		patients were more often
Unknown	72	0.7	•	Further, uninsured patients (3.7
Insurance status				amputations than those on
Medicaid	146	1.5		0.37%, p < 0.001).
Medicare/Other government	7519	77.2	•	Survival probabilities for
Private Insurance	1914	19.7		3 years (77.86% vs 57.73)
Not insured	68	0.7		(67.79% vs 26.24%, p<0
Unknown	95	1.0		private insurance.

Results

fied, the majority of patients lowed by private insurance and no insurance (0.7%).

urance holders, uninsured caid had a 1.24 times higher vanced stage III or IV MCC 08-1.42, respectively).

more likely to have a (5.9% vs 4.7%, p < 0.05),more comorbidities, than

97% of patients received Of these, 38.1% underwent ation and surgery, 11.6% ר combination with another radiation alone.

ore likely to not receive any o privately insured patients

nistered, private insurance treated with Mohs surgery 78% vs 1.47%, p < 0.001). had higher rates of major private insurance (1.47% vs

uninsured patients were 90.54% vs 77.05%, p<0.01), 3%, p<0.001), and 5 years 0.001) than for those with



Figure 1 Kaplan-Meier model results for differences in survival by insurance status in Merkel cell carcinoma patients (N=9742)

Conclusion

Uninsured patients with Merkel cell carcinoma present with more advanced disease, receive less optimal treatment, and exhibit lower survival rates compared to their privately insured counterparts.

