

( )

. . .

**=Abstract=**

**Subungual Malignant Melanoma of Hand (Case Report)**

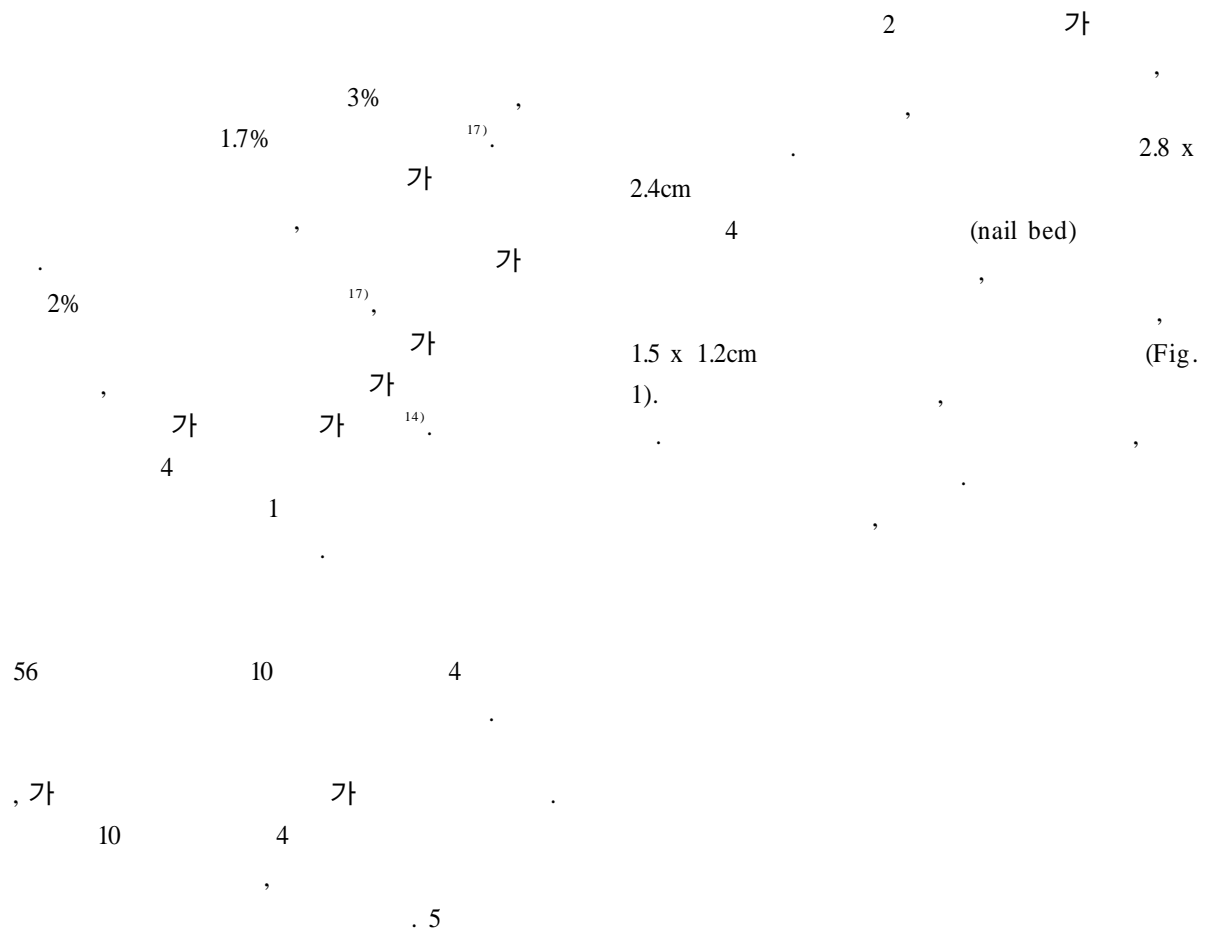
Ho Jung, Kang M.D., Im Don Bae, M.D.,  
Soo Bong Hahn, M.D., and Eung Shick Kang, M.D.

*Department of Orthopaedic Surgery, Yonsei University College of Medicine, Seoul, Korea*

Of all cutaneous melanoma, approximately 2% occur on the hand and subungual melanoma is a rare form. The pathologic type of tumor and depth of invasion are determinants of overall prognosis. The subungual malignant melanoma has gained for itself a certain notoriety of being misdiagnosis and, therefore, treated later than other melanomas with a resulting poorer prognosis. The most common clinicopathologic type of subungual melanoma is acral lentiginous melanoma : however, other variants may occur. The amputation at the neck of the proximal phalanx of the thumb and at the level of the proximal interphalangeal joint in a finger is recommended for management of subungual melanoma. The most common site for recurrence of subungual melanoma is in the regional lymph node field, as with other cutaneous melanomas. But the role of prophylactic lymph node dissection for melanomas remains controversial. There is marked variation in reported overall 5-year survival rates ranging from 16% to 72%. But the survival rate for patients with subungual melanoma, stage for stage and thickness for thickness, is well below that for other cutaneous melanomas. The authors report one case of subungual malignant melanoma of hand which had been misdiagnosed for ten years and treated later.

**Key Words :** Hand, subungual melanoma, acral lentiginous melanoma

:



**Fig. 1.** A pigmented lesion with irregular margin showing central ulceration on the nail and tip of finger.

**Fig. 2.** A. Scattered single lesional cells, located near the dermo-epidermal junction, especially at the periphery of the lesion(HE stain x 100). B. Melanoma cells showing marked atypism in shape and size(HE stain x 400).



가 ,

13).

가 가

17).

15), Sydney Melanoma Unit(SMU)

1 2

13).

10).

lympho- scintigraphy

sentinel node lymphatic mapping

16).

4

1cm

5-6mm

5 16% 72%

12), Heaton 7)

(aneuploid cells)

S

가

가

가 , 10

1) **Breslow A.** : Thickness, cross-sectional areas and depth of invasion in the prognosis of cutaneous melanoma, *Ann Surg*, 172 : 902-908, 1970.

- 2) **Clark WH** : A classification of malignant melanoma in man correlated with histogenesis and biologic behavior, *Adv Biol Skin*, 8 : 621-647, 1967.
- 3) **Clark WH, Bernardino EA** : The histogenesis and biologic behavior of primary human malignant melanoma of the skin. *Cancer Research*, 29: 705-726, 1969.
- 4) **Daly JM, Berlin R, Urmacher C** : Subungual melanoma : a 25 year review of cases, *J Surg Oncol*, 21 : 107-112, 1987.
- 5) **Daniel WP** : Malignant melanoma : basic approach to clinicopathologic correlation, *Mayo clin proc*, 72 : 267-272, 1997.
- 6) **Feibleman CE, Stoll H, Maize JC** : Melanoma of the palm sole and nailbed : a clinicopathologic study, *Cancer*, 46 : 2492-2504, 1980.
- 7) **Heaton KM, Naggar A, Ensign L** : Surgical management and prognostic factors in patients with subungual melanoma, *Ann Surg*, 219 : 197-204, 1994.
- 8) **Hudson DA, Krige JEJ, Strover RM, King HS** : Subungual melanoma of the hand, *J hand surg*, 15B : 288-290, 1990.
- 9) **Hutchinson J** : Melanosis often not black : melanotic whitlow, *British medical journal*, 1 : 491, 1886. (cited from Michael J. Quinn, John E. Thompson, Kerry Crotty, William H. McCarthy and Alan S. Coates : Subungual melanoma of the hand, *J hand surg*, 21A : 506-511, 1996)
- 10) **McCarthy WH, Shaw HM, Cascinelli N, Santinami M, Belli F** : Elective lymph node dissection for melanoma, *World J Surg*, 16 : 203-213, 1992.
- 11) **Papachristou DN, Fortner JG** : Melanoma arising under the nail, *J Surg Oncol*, 21 : 219-222, 1982.
- 12) **Paterson RH, Helwig EB** : Subungual

malignant melanoma : a clinicopathological study, *Cancer*, 46 : 2074-2088, 1980.

- 13) **Quinn MiJ , Thompson JE, Crotty K, McCarthy WH, Coates AS** : Subungual melanoma of the hand, *J hand surg*, 21A : 506-511, 1996.
  - 14) **Rushforth GF** : Two cases of subungual malignant melanoma, *Brit. J .Surg*, 58 : 451-453, 1971.
  - 15) **Tseng JF, Tanabe K Gadd MA et al** : surgical management of primary cutaneous melanomas of the hands and feet, *Annals of surgery*, 225 : 544-553, 1997.
  - 16) **Uren RF, Howman-Giles RB, Thompson JF** : Lymphoscintigraphy to identify sentinel lymph nodes in patients with melanoma, *Melanoma Res*, 5 : 255-260, 1995.
  - 17) **Warso M, Gray T, Gonzalez M** : Melanoma of the hand, *J hand surg*, 22A : 354-360, 1997.
-