Supplementary material

Supplementary Table 1. Summary of the results.

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| Study | Age | Side | Clinic | Image | Dimensions of lesion (mm) | Trea-tment | Pathology | Immunohis-tochemistry | Primary melanoma site | Clark/Breslow stage (mm) | Time since diagnosis of melanoma (yr) | Other metastasis | Survival (mon) |
| Gomes *et al.* [3] | 74 | R | Testicular mass | US—Parenchyma heterogeneity | - | IO | Neoplastic cells with eosinophilic cytoplasm. Presence of melanin-compatible intracellular pigment | HMB-45, confirmed by the Melan-A marker | Left calcaneus | Clark IV/Breslow 3 | 6.0 | Pulmonary, ganglion periaortic | 3 |
| Aslam *et al.* [7] | 52 | L | Pain and testicular mass | US—mixed echogenic lesion with areas of necrosis | - | IO | Very focal intracytopl-asmic melanin pigment | - | Left arm | Breslow 2.1 | 2.0 | Pulmonary, brain | 12 |
| Ejadi *et al.* [8] | 44 | R | Testicular mass | US—hypoechoic lesion | 10 × 9 | IO | Areas of intracellular pigment and a high mitotic rate | S-100 and HMB-45 | Back | - | 8.0 | Pulmonary, bones | - |
| Tahir *et al.* [6] | 82 | L | Testicular mass | US—Solid mass | - | IO | Cellular pleomorphic-sm, enlarged nuclei, prominent nucleoli and several mitotic rates | Melan A and S100. Flow cytometry CD56+ | Abdominal wall | Breslow 1.17 | 6.0 | Pulmonary, abdomen | 1 |
| Ibanez *et al.* [9] | 61 | L | Pain and testicular mass | US—Mass with necrotic areas | 60 × 58 | IO | Ochre pigment | S-100, HMB-45 alpha-inhibin neg | - | - | - | Pulmonary, ganglion and brain | - |
| Hida *et al.* [10] | 50 | L | Testicular mass | - | 40× 20 × 20 | IO | Macroscopic: light-brown-black. Microscopic: intact seminifero-us tubules. Nests cells with eosinophilic cytoplasm | HMB-45 and S100 | Abdominal wall | Breslow 5.9 | Simultan-eous | Pelvic cavity, retroperitoneal lymphadenopathy, cervical and brain | 6 |
| Dusaud *et al.* [2] | 83 | L | Testicular mass | US—Hypoechoic, heterogenous, well-limited nodule with central and peripheral vascularization | 14 × 20 | IO | Macroscopic: brown nodule. Microscopic: cells with dark brown intracytopl-asmic pigment | - | - | - | Simultan-eous | Subcutaneous nodules, ganglion, bones, adrenal glands, brain | 2 |
| Richardson *et al.* [11] | 28 | R | Testicular mass | - | 30 × 30 × 25 | IO | Microscopic: nests of large polygonal cells with vacuolated or eosinophilic cytoplasm prominent eosinophilic nucleolus. | S-100, vimentin and NSE+ | Inferior member |  | Simultan-eous | Hepatic, retroperitoneal ganglion, brain | 14 |
| Weng *et al.* [12] | 82 | R | Asymptomatic | - | - | - | - | - | Right Arm | Clark V Breslow 11 | Simultan-eous | Subcutaneous tissue, muscles, ganglion, bones, pleura, Pulmonary, liver | - |
| Robertson *et al.* [1] | 80 | B | Testicular mass | US—Bilateral, multiple, irregular hypoechoic lesions | - | - | - | - | Abdominal wall | - | 0,5 | Skin, Pulmonary, peritoneum, ganglion, brain | 8 |
| Datta *et al.* [5] | 43 | R | Testicular mass | - | 40 | IO | Macroscopic: black Microscopic: Pattern: Diffuse, nested, follicular and fascicular. Cytoplasm eosinophilic, clear or foamy. Intracytopl-asmic brown pigment: Tumor cells infiltrating around seminifero-us tubules | S100, HMB-45 and melanosomes | Face | Clark IV | 3,0 | - | - |
| Datta *et al.* [5] | 55 | L | Testicular mass | - | 35 | IO | - | - | - | - | 16,0 | Periaortic lymphadenopathy | 12 |
| Datta *et al.* [5] | 80 | R | Testicular mass | - | 90 | - | - | - | - | - | - | - | - |
| Barranquero FS *et al.* [13] | 33 | L | Testicular mass | US—Solid mass | 25 × 18 | IO | - | S100, HMB-45, Melan A | - | Clark II/III; Breslow 1.5 | 5,0 | Brain | 8 |
| Patnana M *et al*. [4] | 71 | L | Pain and testicular mass | US—heterogeneous, solid mass with peripheral vascularity. CT- Hypervascular lesion | 75 | IO | Poorly cohesive, large, epithelioid cells with prominent nucleoli involving focally the seminifero-us tubules | Lost most immunohistochemical expression of Melan-A, HMB45 and MiTF | Back | Breslow 2.3 | 2,0 | Subcutaneous nodules, Pulmonary, axillary, small bowel lesions | - |
| Fortarezza *et al.* [14] | 60 | R | Testicular mass | CT—Mass hypervascular | 75 × 60 × 58 | IO | Macroscopic: black Microscopic: Focal pigment deposits, residual atrophic seminifero-us tubules | Melan-A, Melanoma- HMB45, S100 and vimentin. | Left clavicle | - | Simultaneous | Abdominal lymphadenopathi-es, bilateral adrenal gland nodules | - |
| Present case | 56 | B | Painful mass | US—Hypoechoic nodules | Left:  33 × 32 × 30  Right:  11 × 12 × 10 | IO | Eosinophil-ic cytoplasm and necrosis | S100, vimentin, HMB-45, Melan A, α-fetoprotein, α1-antitrypsin, NSE | Neck | - | 14.0 | Brain | 44 |

R: Right; L: Left; IO: Inguinal orchidectomy; neg: negative; NSE: Neuron specific enolase; US: Ultrasonography; HMB-45: Human Melanoma Black-45; MiTF: Microphthalmia-associated transcription factor; CD56: Cluster of differentiation 56; S-100: S-100 protein.