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Autoship 10 Autohydro 6.40 Autopower 3.2 Autoplate 10 Autoyacht 10. Autoship 10 Autohydro 6 4 Autopower Autoyacht Autoship 10 Autohydro 6.40 Autopower 3.2 Autoplate 10 Autoyacht 7.80.5a-hydroxytriptolide inhibits the growth and migration of osteosarcoma cells and is associated with suppression of the expression of matrix metalloproteinase-9 and E-cadherin. 5a-Hydroxytriptolide (5a-HT), a diterpenoid triepoxide, isolated from the fungus Acantum mearnsii, has been shown to exhibit antimitotic and antitumor activities. However, whether 5a-HT inhibits the growth and metastasis of osteosarcoma (OS) cells has not been studied. In this study, we aimed to explore whether 5a-HT inhibits the growth and migration of human OS cell lines and whether the mechanism may involve the matrix metalloproteinases (MMPs) and cell-cell adhesion. After treatment with 5a-HT, the cell viability of MG-63 and SAOS-2 cells

was measured by a CCK-8 assay. Cell migration was assessed by a wound healing assay, and the expression of MMP-9 and E-cadherin was examined by reverse transcription-polymerase chain reaction (RT-PCR) and Western blotting. 5a-HT treatment significantly decreased the viability of both MG-63 and SAOS-2 cells. These effects of 5a-HT on cell viability were not reversed by addition of exogenous MMP-9, suggesting that 5a-HT suppresses the growth of OS cells by inhibiting the expression of MMP-9. In addition, 5a-HT treatment significantly decreased the migration of both MG-63 and SAOS-2 cells, and the effect was partially reversed by co-treatment with the broad-spectrum MMP inhibitor, BB94. Finally, 5a-HT treatment significantly increased the expression of E-cadherin. Taken together, our results demonstrate that 5a-HT inhibits the growth and migration of MG-63 and SAOS-2 cells. This effect is associated with the suppression of MMP-9 expression,

suggesting that 5a-HT may have therapeutic potential for the treatment of OS.