

**Patients were divided into three groups based on the percentages of CD8<sup>+</sup> T cells.** Patients' clusters: CD8<sup>low</sup>, least 25% of CD8<sup>+</sup> T cells percentage; CD8<sup>mid</sup>, 25%-75% of CD8<sup>+</sup> T cells percentage; CD8<sup>high</sup>, last 25% of CD8<sup>+</sup> T cells percentage.