

**Nanoemulsions of *Jasminum humile* L. and *Jasminum grandiflorum* L.  
essential oils: an approach to enhance their cytotoxic and antiviral effects**

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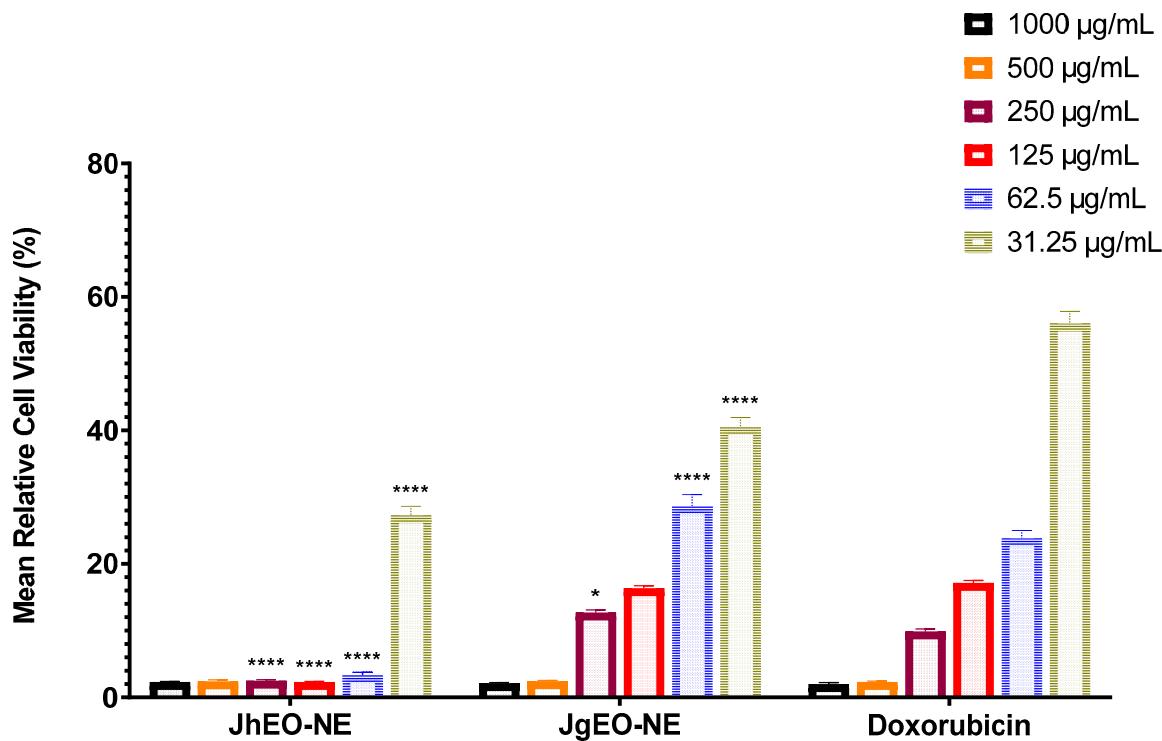
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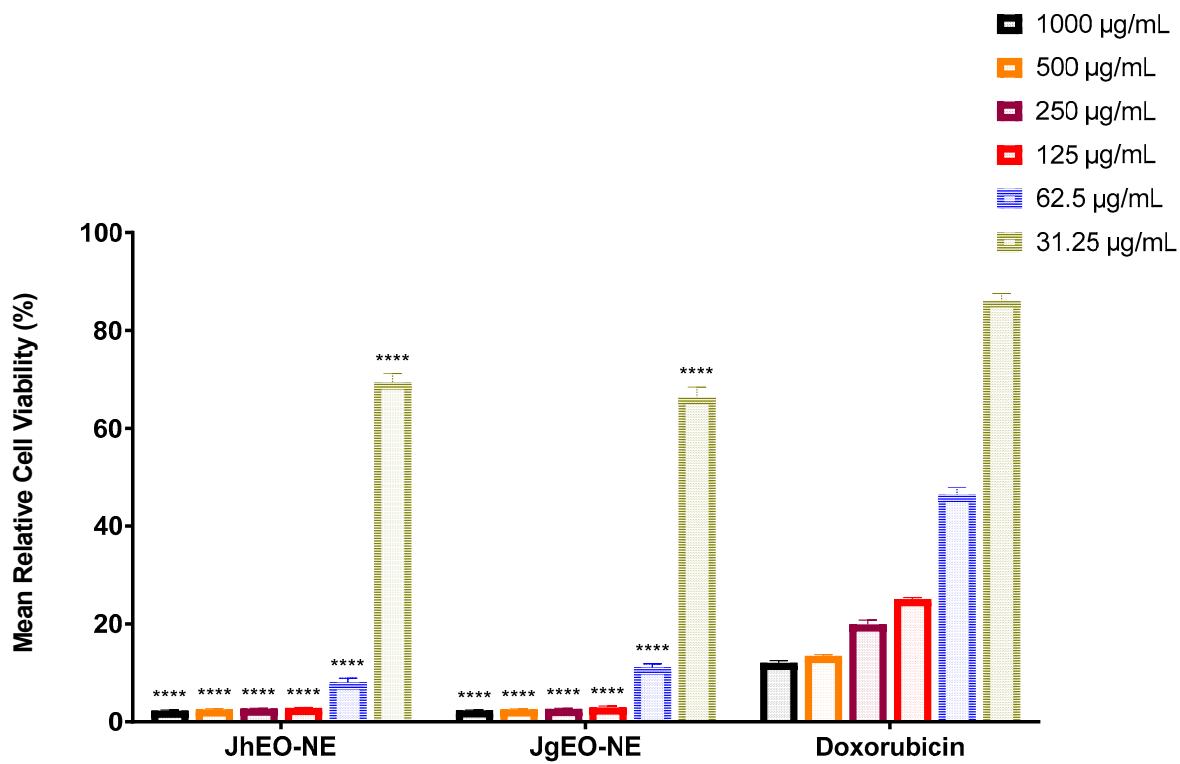
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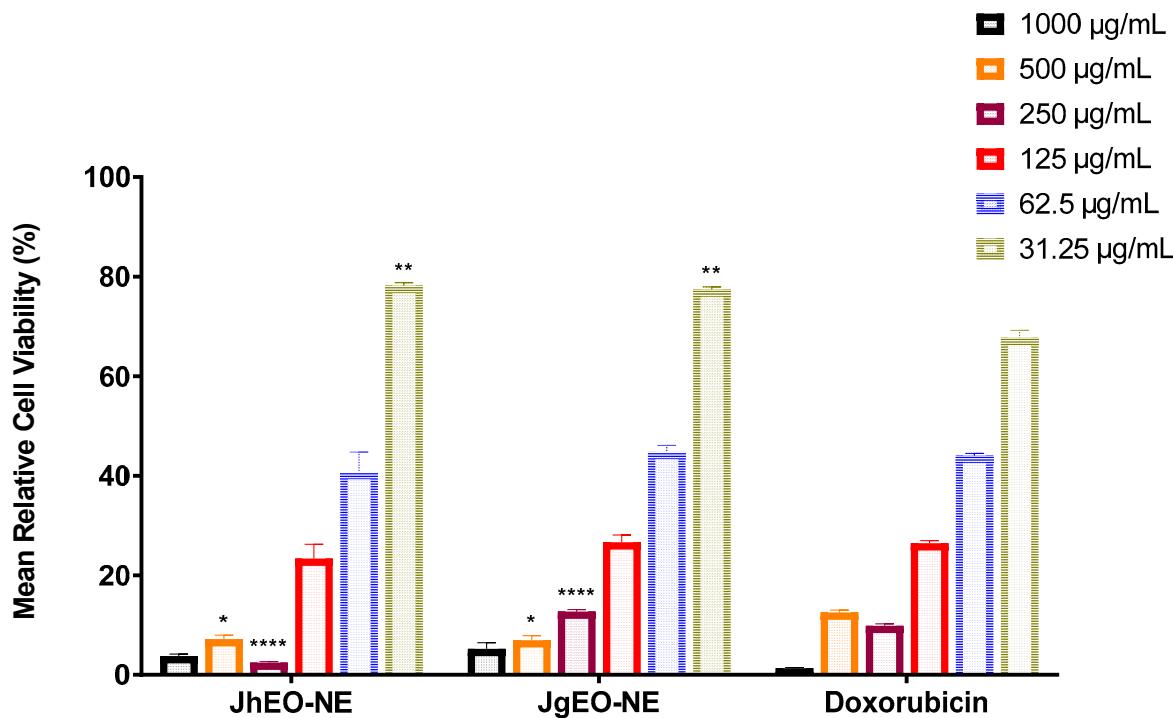
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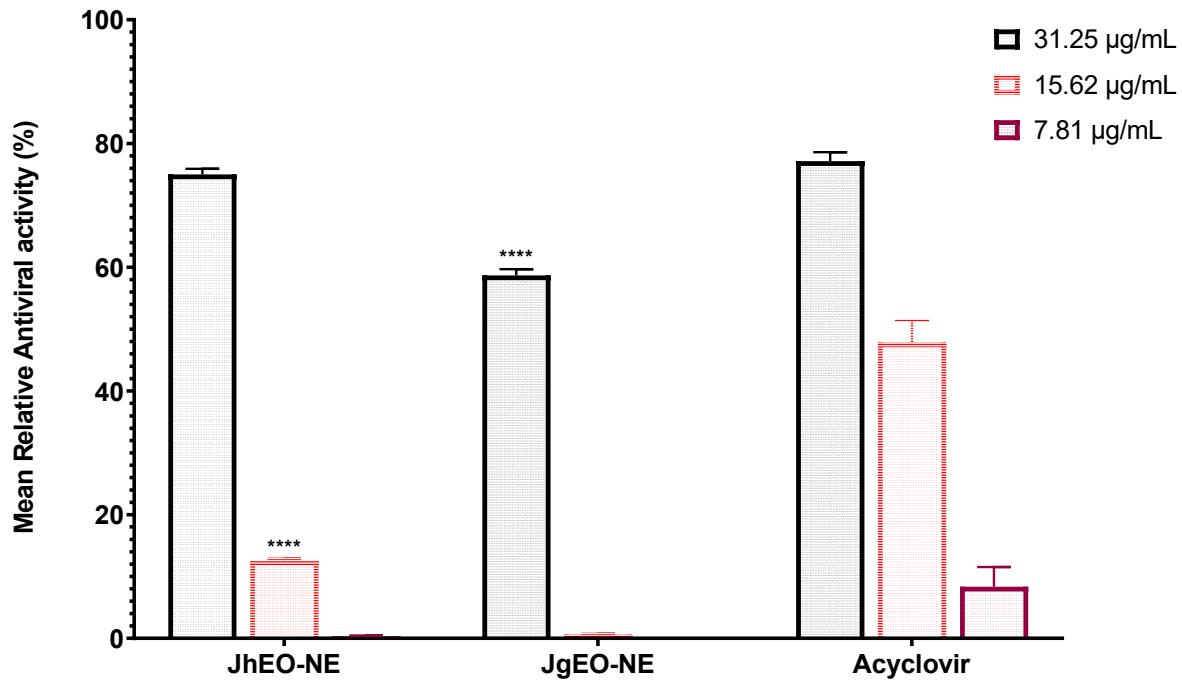
**Figure S1.** Cytotoxic activity of various concentrations the nanoemulsion formulations of the essential oils obtained from *Jasminum humile* L. (JhEO-NE) and *Jasminum grandiflorum* L. (JgEO-NE) as well as standard doxorubicin against the leukemia cell line, HepG-2. Bar graphs represent the mean  $\pm$  SEM of 3 determinations. Asterisks show statistical significance ( $p \leq 0.05$ ) compared to the reference drug doxorubicin. (\*) denotes  $p \leq 0.05$ . (\*\*) denotes  $p \leq 0.01$ . (\*\*\*) denotes  $p \leq 0.001$ . (\*\*\*\*) denotes  $p \leq 0.0001$ .



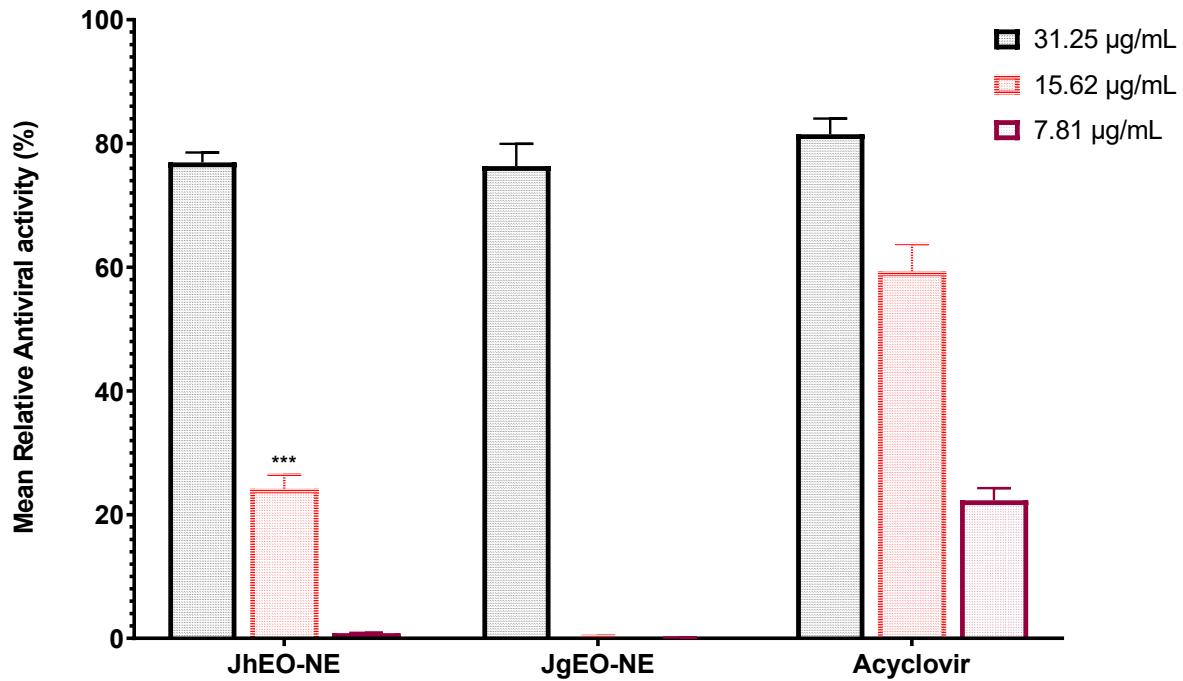
**Figure S2.** Cytotoxic activity of various concentrations of the nanoemulsion formulations of the essential oils obtained from *Jasminum humile* L. (JhEO-NE) and *Jasminum grandiflorum* L. (JgEO-NE) as well as standard doxorubicin against the leukemia cell line, MCF-7. Bar graphs represent the mean  $\pm$  SEM of 3 determinations. Asterisks show statistical significance ( $p \leq 0.05$ ) compared to the reference drug doxorubicin. (\*) denotes  $p \leq 0.05$ . (\*\*) denotes  $p \leq 0.01$ . (\*\*\*) denotes  $p \leq 0.001$ . (\*\*\*\*) denotes  $p \leq 0.0001$ .



**Figure S3.** Cytotoxic activity of various concentrations of the nanoemulsion formulations of the essential oils obtained from *Jasminum humile* L. (JhEO-NE) and *Jasminum grandiflorum* L. (JgEO-NE) as well as standard doxorubicin against the leukemia cell line, THP-1. Bar graphs represent the mean  $\pm$  SEM of 3 determinations. Asterisks show statistical significance ( $p \leq 0.05$ ) compared to the reference drug doxorubicin. (\*) denotes  $p \leq 0.05$ . (\*\*) denotes  $p \leq 0.01$ . (\*\*\*) denotes  $p \leq 0.001$ . (\*\*\*\*) denotes  $p \leq 0.0001$ .



**Figure S4.** Antiviral activity of various concentrations of the nanoemulsion formulations of the essential oils obtained from *Jasminum humile* L. (JhEO-NE) and *Jasminum grandiflorum* L. (JgEO-NE) as well as standard doxorubicin against HAV virus. Bar graphs represent the mean  $\pm$  SEM of 3 determinations. Asterisks show statistical significance ( $p \leq 0.05$ ) compared to the reference drug doxorubicin. (\*) denotes  $p \leq 0.05$ . (\*\*) denotes  $p \leq 0.01$ . (\*\*\*) denotes  $p \leq 0.001$ . (\*\*\*\*) denotes  $p \leq 0.0001$ .



**Figure S5.** Antiviral activity of various concentrations of the nanoemulsion formulations of the essential oils obtained from *Jasminum humile* L. (JhEO-NE) and *Jasminum grandiflorum* L. (JgEO-NE) as well as standard doxorubicin against HSV-1 virus. Bar graphs represent the mean  $\pm$  SEM of 3 determinations. Asterisks show statistical significance ( $p \leq 0.05$ ) compared to the reference drug doxorubicin. (\*) denotes  $p \leq 0.05$ . (\*\*) denotes  $p \leq 0.01$ . (\*\*\*) denotes  $p \leq 0.001$ . (\*\*\*\*) denotes  $p \leq 0.0001$ .