Anti-proliferation and induction of apoptosis by extract of *Turbinaria conoides* (J. Agardh) Kützing on human cervical cancer cell line

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**Introduction**: Several types of brown seaweeds have shown to suppress cancer cells by inducing apoptosis and arresting the cell cycle. The brown seaweed from the east coast of the Gulf of Thailand may have potential effects on cervical cancer as well as ability to induce apoptosis.

**Objective**: To study the anti-proliferative effect and induction of apoptosis by *Turbinaria conoides* (J. Agardh) Kützing (TCK) on human cervical cancer cell line.

**Setting**: Burapha University

**Research design**: An in vitro study

**Target Population**: Human cervical cancer cell line (HeLa).

**Method**: Fresh samples of *Turbinaria conoides* (J. Agardh) Kützing (TCK) were extracted and treated HeLa cells. The viable cell number is based on MTT colorimetric assay. The morphology of apoptotic nuclei were quantified by staining both DAPI and propidium iodide (PI). DNA agarose gel electrophoresis was used for qualitative analysis.

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