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***In vitro and in vivo study of hydralazine, a potential anti-angiogenic agent***

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**Abstract**

Hydralazine (HYD), an old routine clinical anti-hypertension drug, is rarely used in clinic nowadays. Since the strategy of repositioning old drugs was put forward, HYD has been reported to possess various biological activities, including antitumor efficacy and reducing intra-tumor microvessel. Here, we investigated that whether HYD had the ability of anti-angiogenesis and its underlying mechanism. Cells proliferation, wound-healing, Transwell migration and invasion, tube formation and rat aortic ring assays *in vitro* and chicken chorioallantoic membrane (CAM) model *in vivo* were designed to investigate HYD's anti-angiogenic effect. Levels of vascular endothelial

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