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<b>Department *</b>	Human Toxicology
<b>Title of Research *</b>	Hazard Prioritization of Endocrine Disrupting Chemicals
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<b>Introduction &amp; Purpose *</b>	Hazard priority ranking of endocrine disrupting chemicals (EDCs) was established considering two important factors of hazard score (HS); 1) the health effect factor of EDCs {e.g., carcinogenicity, the range of hazard score range (HS; 0-30); reproductive/developmental toxicity (HS; 0-20), mutagenicity (HS; 0-10), estrogenic potency (HS; 0-10), and LD50 values (HS; 0-10)}, and 2) exposure factors {e.g., half-life (HS; 2-8), partition coefficient (HS; 2-8), and hazard index (HI)(HS; 2-8)}.
<b>Experimental Design *</b>	67 EDCs classified by the world wildlife funds (WWF) were comparatively analyzed for their potential risk to humans and hazard priority using a risk-based hazard ranking system (RISKBAR) we developed in this study. The hazard ranking based on the total risk score (TRS) estimated in this study was also compared to that of other methods such as CERCLA hazard priority, ANPI, IRCHS, CHEMS-1, and CRS-K.
<b>Results *</b>	The top 5 ranked EDCs obtained from this study were dioxins, PCBs, cadmium, DDT, and pentachlorophenol, and the low top 5 ranked EDCs were oxychlordane, dicyclohexyl phthalate, di-n-hexyl phthalate, metribuzin, and dipropyl phthalate.
<b>Conclusions *</b>	This study suggests that EDCs be ubiquitously present in the environment, but the potential risk of EDCs to human health could not be as high as we perceived due to the strict regulation of EDCs. This information about hazard ranking or priority of EDCs might be helpful for future risk analysis, regulation and policy making.

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