Br. J. Cancer (1980) 42, 881

<u>CYTOTOXI</u>	CITY OF ADRIAMYCIN TO TUMOU	R CELLS IN VIVO
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drug 14 days after inoculation of cells. Cell treated at mean diameters of 6-8 mm were

	survival in the tumours was then assayed in <i>nitro</i> as described below.	measured $3 \times$ weekly in dicular dimensions. and	3 mutually perpen- the time calculated	
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	to ADM was determined either in terms of growth delay in situ for s.c. tumours or by measuring cell survival in vitro following	mean diameter 2 mm la ment size. Pure Adriamvcin pow	rger than the treat-	
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CYTOTOXICITY	OF	ADRIAMYCIN
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	ture. Oxic and hypoxic cells were exposed to 0 <u>-5 ug/ml ADM at 37°C for times up to</u>	both found that plateau-phase cells were <u>significantly more resistant to ADM than</u>	
	4.5 h. The resulting survival curves were both biphasic (Fig. 4) with the breakpoint	log-phase cells. Sutherland <i>et al.</i> (1979) showed by fluorescence measurements	
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	cells, e.g. nutritional status, pH, or growth fraction. Since the sensitivity to ADM of cultured cells <u>in vitro</u> differs so much from that of	fraction below 10^{-3} . However, survival was always greater than 30% . A fall in cell yield could only explain this if there were a loss of 2–3 decades of cells, which would	
	the tum <u>ours in vivo</u> , it is possible that the	certainly be detectable. In practice we	<u> </u>
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	than se tumours of	50 <u>-500 times the</u>	Bonadonna. G	Monfardini. S., Delana. M	. <i>R</i> .
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CYTOTOXICITY OF ADRIAMYCIN

<u> </u>	SMITH, E., STRATFORD, I. J. & ADAMS. G. E. (1980)	Sutow. W. W. Sullivan. P. & Fernbach. D. (1974)
	Cytotoxicity_of_Adriamycin_on_anaerobic_and	Adjuvant chemotherapy in primary treatment of
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7	hyp <u>oxic Chinese hamster V79 cells in vitro. Br. J.</u>	osteogenic sarcoma. Proc. Am. Assoc. Cancer Res.
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