









































2,3-bisphosphoglycerate (2,3-BPG) (2,3-diphosphoglycerate, 2,3-DPG) OH intermediate of glycolysis in RBC ОН HC (~ 5 mM) rapidly consumed at normal P_{O2}, HC accumulates at $\downarrow P_{O_2}$ O= binds preferentially to β chains ΗÓ ■ at ~9 Å, it fits in the deoxyHb form (11 Å pocket), not in the oxyHb form (5 Å)



























	4 types of hypoxia				
		Pa ₀₂	$\Delta A - V [O_2]$	Pv ₀₂	
	hypoxic	$\downarrow\downarrow$	=	↓	[O2] 250 (ml/l) 150 50 0 20 40 60 80 10 0
	anemic	=	=	$\downarrow\downarrow$	[O2] ²⁵⁰ (ml/l) ¹⁵⁰ ⁵⁰ ⁵⁰ ⁵⁰ ⁵⁰ ⁵⁰ ⁵⁰ ⁵⁰
	ischemic	=	Ţ	↓	[O2] 250 (ml/l) 150 50 0 20 40 60 80 100
	histotoxic	=	Ţ	¢	[O2] (ml/l) (ml/l) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

