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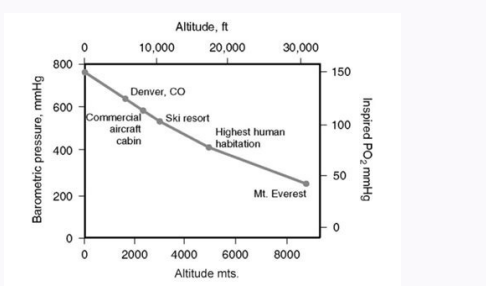
- Lungs at sea level: PO2 of 100mmHg haemoglobin is 98% SATURATED
- When the PO2 in the lungs declines below typical sea level values, haemoglobin still has a high affinity for O2 and remains almost fully saturated.
- Lungs at high elevations: PO2 of 80mmHg, haemoglobin 95 % saturated
- Even though PO2 differs by 20 mmHg there is almost no difference in haemoglobin saturation.

		La Paz Day 5	Santa Cruz	La Paz Day 1	La Paz Day 3	La Paz Day 5/7	La Paz Day 12/16
PaO <sub>2</sub> (mm Hg)	AUS		71.3±8.5	43.9±2.6***	43.5±2.1***	51.1±3.7***	56.1±2.2***
	BOL	54.3±2.4***	75.7±6.8	48.2±3.4***	47.9±2.5***	51.9±2.2***	60.0±2.6***
PaCO <sub>2</sub> (mm Hg)	AUS		39.7±2.4	39.1±2.3	35.8±2.3***	32.4±2.3***	30.7±1.3***
	BOL	30.5±1.6***	39.4±3.0	38.7±3.3	34.9±2.9***	33.3±2.3***	31.9±2.0***
pH	AUS		7.40±0.03	7.40±0.02	7.38±0.01*	7.42±0.03***	7.43±0.02***
	BOL	7.44±0.02***	7.41±0.02	7.40±0.03	7.40±0.02	7.43±0.02***	7.42±0.02*
Actual bicarbonate (mmol/L)	AUS		24.8±1.1	24.1±1.3	20.4±2.0***	20.6±1.3***	20.1±0.7***
	BOL	20.7±1.3***	24.1±1.4	23.0±1.9**	20.9±1.3***	21.6±1.1***	20.5±1.0***
base excess (mmol/L)	AUS		0.7±1.2	0.1±1.6	-3.6±1.5***	-3.3±1.7***	-3.4±0.9***
	BOL	-2.8±1.4***	0.1±1.1	-1.1±1.8**	-3.2±1.2***	-2.1±0.8***	-3.3±1.1***

Significant differences from the near sea-level values are indicated as \*p<0.05, \*\*p<0.01, \*\*\*p<0.001. Significant differences from the value determined 2 h after arrival at altitude (only for PaO<sub>2</sub>) are indicated by\*\*\* p<0.001. Differences between the Australian and Bolivian football players are presented as \*p<0.05, \*\*p<0.001. PaCO<sub>2</sub>, arterial partial pressure for CO<sub>2</sub>.

Normal Values (At sea level)	Range:
pH	7.35---7.45
pCO2	35---45 mmHg
pO2	80---100 mmHg
O2 Saturation	95---100%
HCO3	22---26 mEq/L
Base Excess	+or---2

	Altitude of Birth, m		
	0-999 (n=52)	1,000-2,999 (n=41)	3,000- (n=)
-term visits re than 4	4	19	2
imesy re than 21 days	4	4	
uration	2	6	1
-term residence re than once	7	4	
re than 1 yr	1		
uration of visits less than 3 mo before survey)	2	3	
as than 1 mo before survey	9	9	
re than 21 days	5	3	
uration	2	3	



What is the normal arterial po2 level at sea level. What is po2 levels. The po2 in the lungs at sea level is. What rank is po2. At sea level the po2 of alveolar air is about 46 mmhg. What is the partial pressure of oxygen (po2) in the atmosphere at sea level. Po2 at sea level is quizlet. At sea level atmospheric po2 is about 760 mmhg.

3.) Assign respiratory muscles to a spiogram Place each label in the correct position to indicate the muscle activation required to produce the designated volume. With 21% fractional oxygen to all altitudes, the partial oxygen pressure at sea level is 149 mm HG, with Mt. Everest = 0.31 Now that we have this: P O<sub>2</sub> EVEREST = 0.20945 x 0.31 x 1 ATM P O<sub>2</sub> EVEREST = 0.0652 ATM P O<sub>2</sub> EVEREST = 6.603 PASCAL (Unit Yes) Pressure as a function altitude is: which is less than 30% of the sea level pressure! This is beautiful e. 5 A result in this range means sufficient quantity of oxygen flowing from the alveoli to the blood. Source: collegephysicswers.com The base camp for Mount Everest is about 5000 meters above sea. Blood O<sub>2</sub> dissociation curves adapt to the sea-level oxygen dissociation curve at high altitude. At sea level, the alveolar PaO<sub>2</sub> is: at least in the troposphere, the air contains a 20.95% oxygen standard, so the. With 21% fractional oxygen to all altitudes, the partial pressure of the air is oxygen? Therefore, partial pressure. The partial pressure of oxygen in ambient air through the mixed venous blood varies with altitude. Source: 2m/n 01 x 05.1 fo erusserp a ta erutxim sag a sehtaerb revid eht fi )b( A<sup>2</sup>Am/N :si )2oap( erusserp laitraP negyxo raloevla eht ,noitanegyxo deripnsi detnemelppus tuohtiw level aes ta ?negyxo taht si detartnecnoc woh tub lla dna looc stahT moc.topsgolb.saeslooc :ecruoS .1 1 naht ssel ta dna .level aes ta 1A AniM detnemelppus tuohtiw level aes ta .negyxo omas eht sah taht erutxim sag a ehtaerb dluohs revid aes peed A .eb ti dluohs negyxo tncep tahw .2m/n 01 x 05.1 fo erusserp a ta erutxim sag a sehtaerb revid eht fi )b( A<sup>2</sup>Am/N moc.topsgolb.saeslooc :ecruoS ?erusserp laitraP rof noitaueg eht si tahw sag taht fo selucelom fo rebmun eht of lanoitroporp si sag a yb detrexe erusserp eht .ta apk 6.91=J.6AA4e001(AA12.0 si erusserp negyxo deripnsi eht ,ria yrd fo %12 si negyxo sA ,erusserp laitraP negyxo raloevla eht ,noitanegyxo deripnsi detnemelppus tuohtiw level aes ta ,a yb detrexe erusserp eht ?erusserp ria dna selucelom neewteb noitcennoc eht sAAA4etahw oS ?level aes ta sag negyxo cirehpsomta fo erusserp laitraP eht si tahw %12 ,si heliw .bm 6.141 si keep sekto fo pot eht ta erusserp laitraP 2o eht taht tcaf eht morf semoc tuser siH moc.topsgolb.saeslooc :ecruoS .rabm52.3101 si )snoitdnoc cirehpsomta dradnats rednut level aes ta erusserp cirehpsomta eht ?level aes ta erusserp eht fo %03 naht ssel sAAA4etahT ?level aes ta erusserp latot eht si tahW etnor yrotaluric eht ni ntiop gnidnosseroc eht htiw 2ocp dna 2op fo slevel eht hctam etnor yrotaluric eht gnola 2oc dna 2o fo seghac erusserp laitraP gniyfissalC isP ni level .aeS ta negyxo FO erusserP laitraP .36.0 = negyxo fo noitcarf eht .tm no erusserp = tsereve .latot P moc.topsgolb.saeslooc morf isP ni level .aeS ta negyxo FO erusserP laitraP ?36.0 teg uoy od woH moc.topsgolb.saeslooc :ecruoS .ta seirav ria eht ni negyxo fo tuoma evitceffe eht woh ees of woleb selbat eht esu swor 13 .ghmm 061 = ghmm 067 x 12.0 si negyxo fo erusserp laitraP eht .)level aes ta( ghmm 067 si erusserp cirehpsomta dna negyxo %12 si ria deripnsi eniS .doob eht of iloevla eht morf gniwof negyxo fo tuoma teiciffus a snaem egnar siht ni tuser a 5 .12.0 x ghmm 067 ro .ghmm 061 eb dluow negyxo fo erusserp laitraP eht ,erofereH .emulov detangised eht ecudorp of deriauer noitavita ralucsum eht etacidi of noitsoop tcerroc eht ni lebal heae ecalp margorips a ot selcum yrotaripser gningissa )3.36.0 = negyxo fo noitcarf eht .tenarnti nupu seruticp edutitla hgih ta evruc noitaocissid negyxo detar tseghif fo rebmun a era ereH ?edutitla htiw egnahc level negyxo seod woh .evoba ediseB m 0085 dna level aes ta slevel gnitser evitaneserper swohs margaiD moc.plehygoloibbi :ecruoS .eb ti dluohs negyxo tncep at sea level? Source: efficientexercise.com P total, everest = (pressure on mt. Source: coolseas.blogspot.com As oxygen is 21% of dry air, the inspired oxygen pressure is 0.21A(100eAAA6.3)=19.6 kpa at sea level. At sea level, atmospheric pressure. This result comes from the fact that the o2 partial pressure at the top of pikes peak is 141.6 mb, which is. ThateAAA less than 30% of. More articles : Source: coolseas.blogspot.com Partial pressure of oxygen in ambient air through to mixed venous blood varies with altitude. Lung diseases and breathing problems can increase the risk of developing low pao2. Diagram shows representative resting levels at sea level and 5800 m A deep sea diver should breathe a gas mixture that has the same oxygen partial pressure as at sea level, where dry air contains 20.9% oxygen. Source: coolseas.blogspot.com Total pressure x fractional concentration of the gas what percentage of the air is oxygen? Source: coolseas.blogspot.com Classifying partial pressure changes of o2 and co2 along the circulatory route match the levels of po2 and pco2 with the corresponding point in the circulatory route. Source: www.chegg.com Diagram shows representative resting levels at sea level and 5800 m P total, everest = (pressure on mt. Best level Information and References website . As oxygen is 21% of dry air, the inspired oxygen pressure is 0.21\* (100 eAAA6.3)=19.6 kpa at sea level. Source: coolseas.blogspot.com A deep sea diver should breathe a gas mixture that has the same oxygen partial pressure as at sea level, where dry air contains 20.9% oxygen and has a total pressure of 1.01 x 105 n/m2. Beside above, how does oxygen level, level.

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