D+

team 5

BME 260L Project #1 Model Quality

	Score	Max
Conceptual Model Quality • Selected multi-unit system captures key aspects • Related assumptions complete and appropriate - No dead space - air straight into alveoli. - one box as "all lungs" - pulmon = Metabolism, so really 2 units	8	20
Selected Components • Selected chemical components capture important changes • Related assumptions complete and appropriate • Compounds reasonably track through the model - O_2, CO_2, pus [pus in only 1 unit] - 60% as "sick" is very low. (didn't meet spirit of assignment)	4	10
Mathematical Model Quality • Selected or derived equations (accounting, kinetic, relational) capture key movements and changes • Related assumptions complete and appropriate - used in & out (literature value) to calc across membrane (diff) - 1 vs 2 lobes of lungs - confusion. - calc of outlet of pneumonia by hand.	12	25
Model Results • Model results demonstrate important features of system and demonstrate insight into system • Model results are reasonable (e.g., right order of magnitude) - results don't provide insight to model - result #'s don't match	10	25

both places

	Score	Max
Discussion and Implications • New insights gleaned from model • Demonstrated understanding of limitations of model ↳ NO. ↳ Some. - see notes in paper	12	20
TOTAL (OVERALL GRADE)	46	100