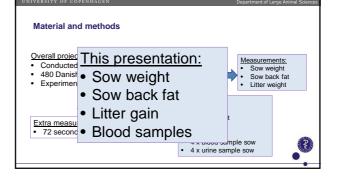
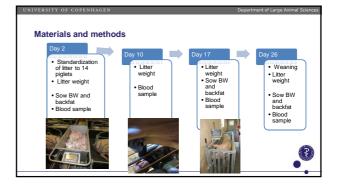


Hypothesis and objective

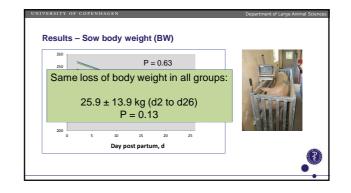
- Hypothesis: The best valine-to-lysine ratio would • Increase litter growth
 - Prevent excessive body mobilization
- Objective: To test the effect of six dietary valine-to-lysine ratios for lactating sows on sow performance and litter growth.

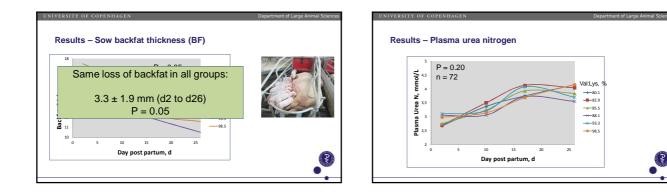


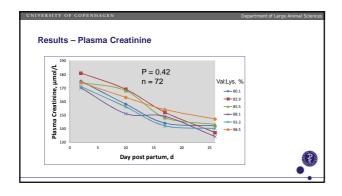
Materials and methods	6							
Sow were allotted to one of	of six dieta	ry treame	nts:					
	Diet							
	1	2	3	4	5	6		
omposition								
Crude protein, %	14.2	14.2	14.2	14.2	14.2	14.2		
Standard digestible lysine, g/kg	7.1	7.1	7.1	7.1	7.1	7.1		
Standard digestible valine, g/kg	5.4	5.6	5.8	6.1	6.5	6.9		
Standard digestible Val:Lys, %	75.8	79.0	82.0	85.0	91.0	97.0		
Total Val:Lys, %	80.1	82.9	85.5	88.1	93.3	98.5		



Results	s – Feed	l intake							
			D	iet			SE	P-value	Ē.
	1	2	3	4	5	6		Diet	i i
Val:Lys, %	80.1	82.9	85.5	88.1	93.3	98.5			
n	12	12	12	11	13	10			
Feed intake, kg/d	6.2	Aver	age intak	e: 6.1 ± 0	.8 kg/d	5.0	0.24	0.66	
Valine intake, g/d	41	Average	e valine in	take: 43.2	2 ± 5.8 g/	ł	1.81	0.35	







tmont of Largo Animal Results – Plasma metabolites • Plasma glucose: No dietary effect (P = 0.33) • Plasma lactate: No dietary effect (P = 0.37) • Plasma NEFA: No dietary effect (P = 0.89) Decreased over time in all groups -> Body fat mobilization 3

				iet			SE	P-value
			U	iet			SE .	P-value
	1	2	3	4	5	6		Diet
Val:Lys,%	80.1	82.9	85.5	88.1	93.3	98.5		
n	12	12	12	12	13	11		
Litter size weaning		Average litter size: 12.8 ± 1.2 piglets					0.25	
ADG, kg/d		0.07	0.05	0.07	0 70	0.00		0.08
ADG, Kg/u		Average ADG: 3.0 ± 0.6 kg/d						

