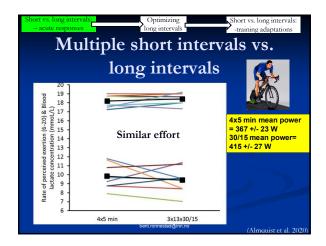
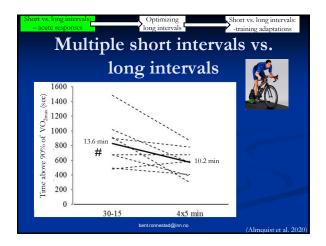
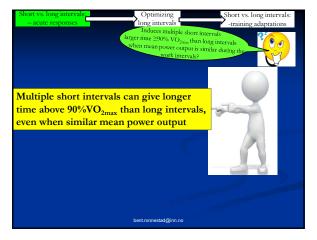
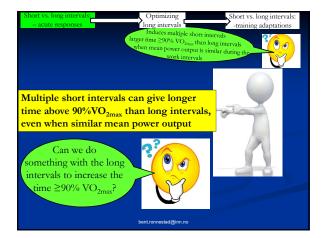


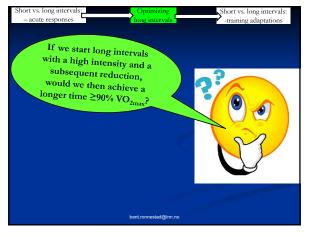
Short vs. long inte – acute response Mu	ses	lon	g intervals		-trainin	long interval g adaptations VS•	
	long intervals						
5 min		5 min	5	min		5 min	
		27±7 y 75±3 k	ears, 180± g,	5 cm,		All-out;	
<mark>13 x :</mark>	<mark>30/15 s</mark>		73±7ml/k 61±26 W	g/min		milar wor val durati	
ů.	24.	Tid i økten (m		37 AÚ		43.5	
			ninutter) onnestad@inn.no		(Al	lmquist et al.	2020)



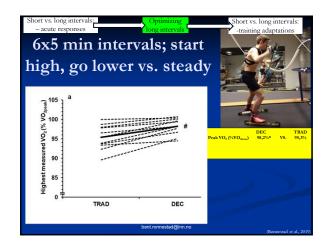


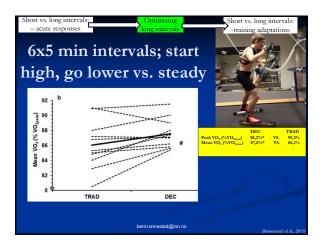


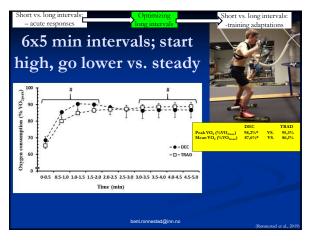


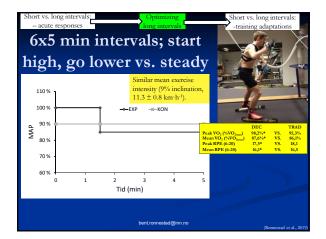


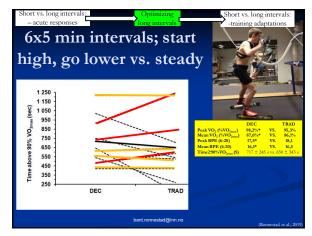
-acute r	min in min in , go lo		als				vs. long into ing adaptat	
110 % 100 %	Ì	i	ntensity ( 1.3 ± 0.8	ean exercise (9% inclinat 8 km·h <sup>-1</sup> ). :ON				
4 90 % 4 80 % .	ļ					Variable		mean ± SD
70 %						Age	years	23,3 ± 3,5
60 %						Body height Body mass	cm kg	183 ± 6 76,6 ± 7
0	1	2 Tid (m	з in)	4	5	VO <sub>2max</sub>	ml/min/kg	70,3 ± 5,7
1						HR <sub>max</sub> MAS	beat/min km/h	198 ± 8 12,6 ± 0,9
						VLT	km/h	$10,1 \pm 0,8$
			bent.ronn	estad@inn.no		New York Control of Co	(Rønnes	tad et al., 2019)

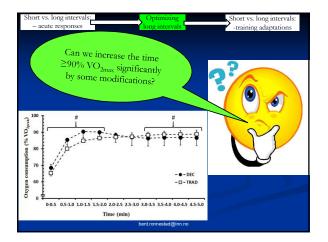


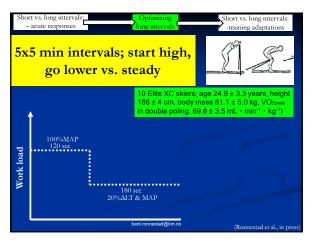


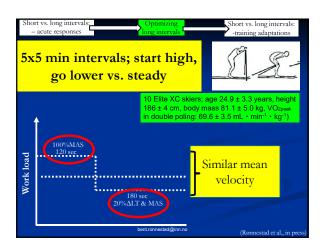


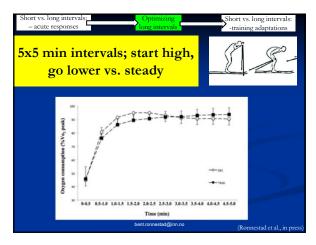


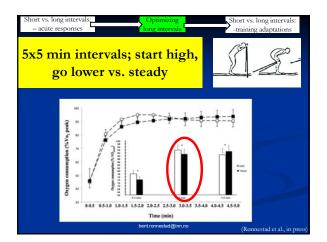


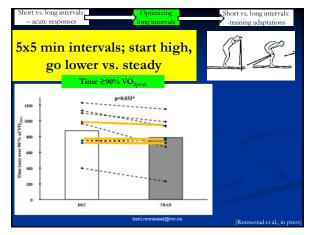


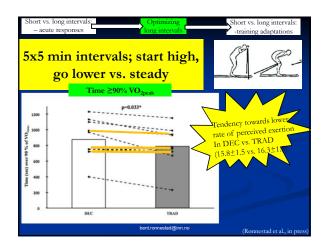


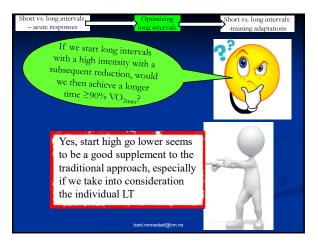


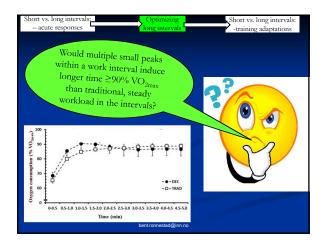


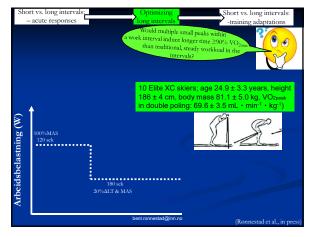


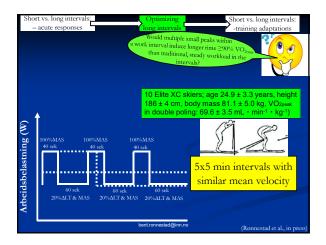


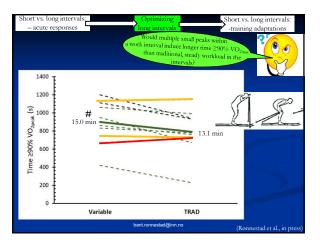


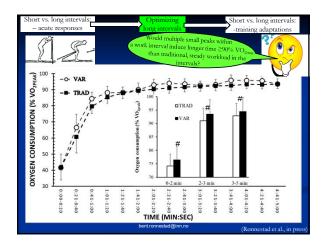


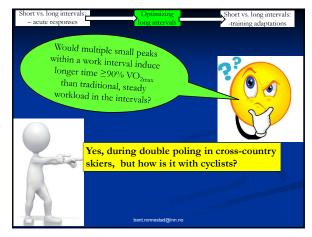


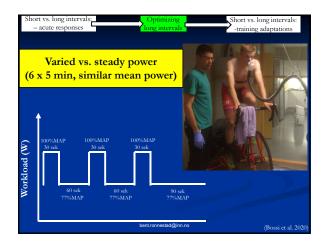


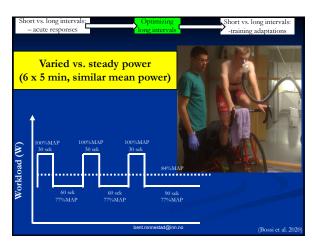


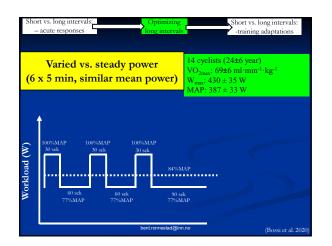


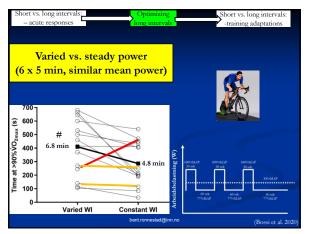


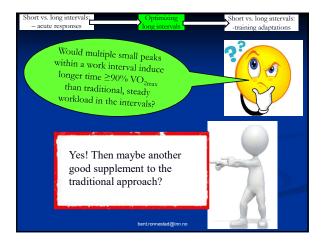




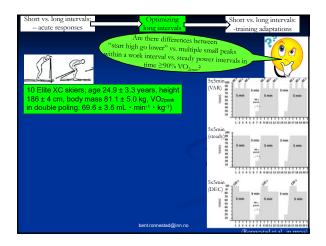


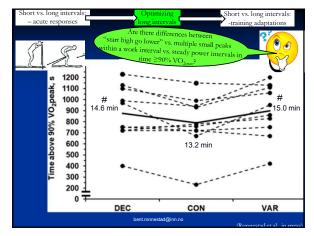


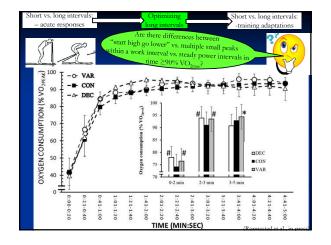


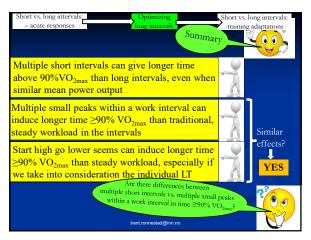


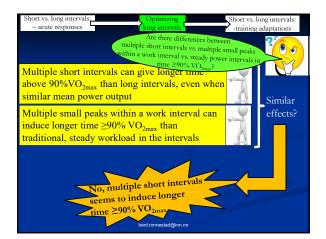
	ort vs. long intervals: raining adaptations
Multiple short intervals can give longer time above $90\%VO_{2max}$ than long intervals, even when similar mean power output	
Multiple small peaks within a work interval can induce longer time ≥90% VO <sub>2max</sub> than traditional, steady workload in the intervals	Similar
Start high go lower seems to induce longer time $\geq 90\%$ VO <sub>2max</sub> than steady workload, especially if we take into consideration the individual LT Are there differences between	effects?
Are they differences between "start high golower" vs. multiple small peaks within a work interval vs. steady power intervals time ≥90% VO <sub>2ma</sub> ? bettromestad@in.no	

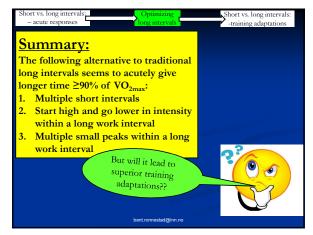


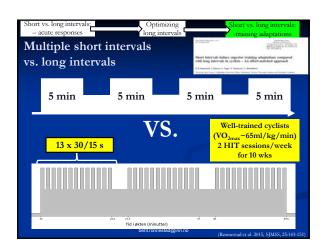


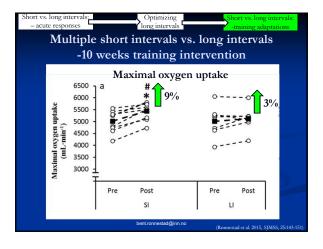


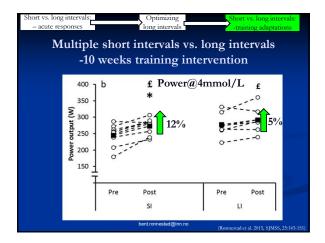


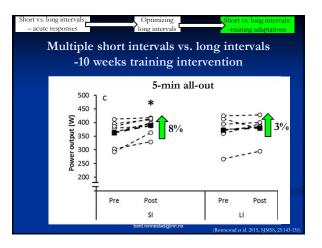


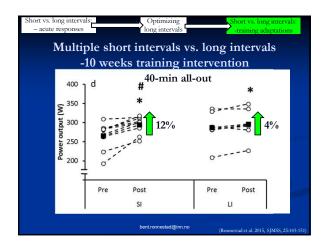


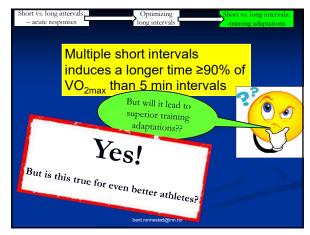




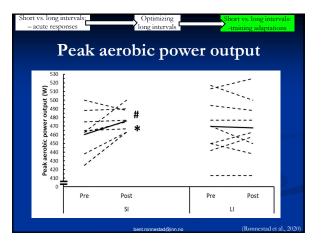


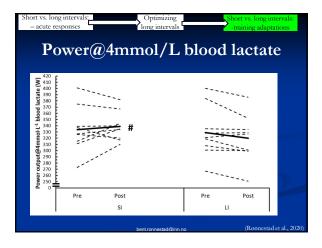


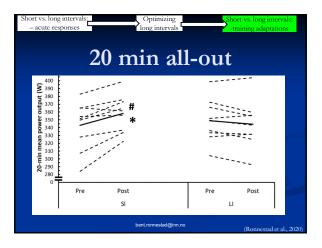


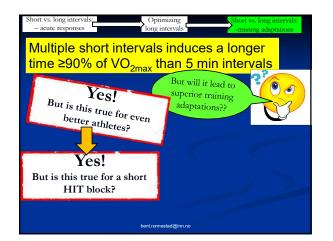


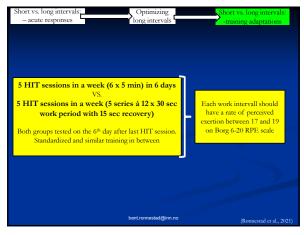
rt vs. long i - acute resp Mu	Short vs. long intervals: -training adaptations intervals			
3 HIT sessions per week for 3 weeks with 5 days after last HIT before post-test				
		30/15	4 x 5 min	
	Age (years)	24±4	25±5	
]	Height (cm)	184±3	182±4	
Bo	ody mass (kg)	75.2±3.6	74.5±5.1	
VO <sub>2m</sub>	<sub>ax</sub> (mL·kg <sup>-1</sup> ·min <sup>-1</sup> )	73±3	74±4	
	W <sub>max</sub> (W)	460±26	468±39	
20 min	all-out power (W)	343±31	348±32	
bentronnestad@inn.no (Ronnestad.et al., 2020				

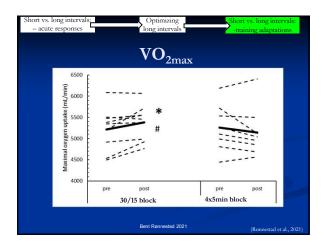




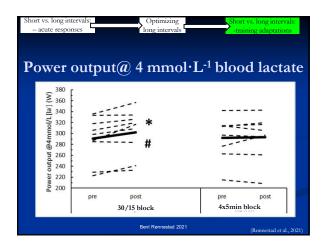


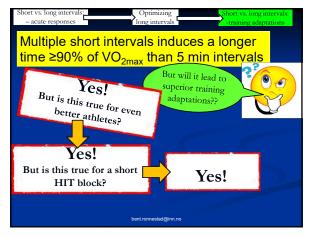






vs. long intervals: tute responses	Optimizing long intervals	Short vs. long interval -training adaptations
	W <sub>max</sub>	
(M) Ind Ino a short of the shor	*	
350 pre	post 30/15 block	pre post 4x5min block
	Bent Rønnestad 2021	(Rønnestad et al.,





	Short vs. long intervals: training adaptations
	Summary 200
Multiple short intervals can give longer time above 90%VO <sub>2max</sub> than long intervals, even when similar mean power output	Ä
Multiple small peaks within a work interval can induce longer time $\geq 90\%$ VO <sub>2max</sub> than traditional, steady workload in the intervals	
Start high go lower seems can induce longe time $\geq$ 90% VO <sub>2max</sub> than steady workload, especially if we take into consideration the individual LT	
Indications that isoeffort multiple short intervals can give larger adaptations than to longer intervals	
bentronner	stad@inn.no

Practical application of a 30/15 session	<b>Borg scale</b>
Work intensity ≈ mean work rate during 5-6 min all-out	6. No exertion at al 7. Extreme light 8.
Recovery ≈ moderate work intensity	9. Very light 10. 11. Light 12. 13. Somewhat hard
Number of intervals in a serie $\approx >9$	14. 15. Hard (Heavy) 16. 17. Very hard 18.
Number of series $\approx 3.4$	19. Extremely hard 20. Maximal exertion

