

Oral nutritional supplement (ONS) or energy and protein dense inbetween meals snack as nutrition supplements for patients with Chronic Obstructive Pulmonary Disease (COPD)

Postprandial blood glucose, acceptance and total energy and protein intake

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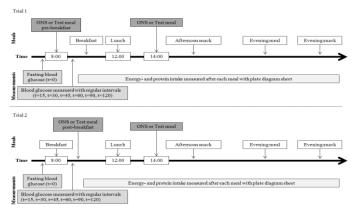
- Chronic obstructive pulmonary disease (COPD) is a group of chronic obstructive lung disorders
- · Liquid oral nutrition supplements (ONS) are often used by COPD patients
- Corticosteroids commonly used → hyperglycemia → longer hospital stay and increased mortality
- Aims
 - To test the effect of the two interventions on postprandial blood glucose
 - To estimate the effect of providing nutritional support by the two interventions on total energy and protein intake during hospitalization
 - To assess the acceptance of the two interventions provided after an overnight fasting or as an in-between meal

Baker & Bell, 2009; Collins, Elia, & Stratton, 2013; Ferreira, Brooks, White, & Goldstein, 2012; Islam, Limsuwat, Nantsupawat, Berdine, & Nugent, 2015; Walters et al., 2014; Marsh et al., 2008





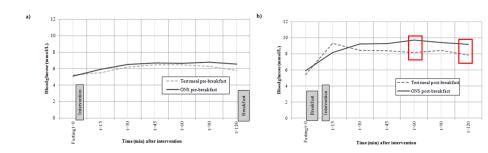
Methods







Results





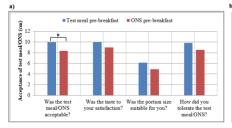


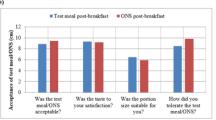
	Intervention		No intervention		
	Median	95% CI	Medi an	95% CI	p-value
Energy, kcal/day					
Breakfast	379	(280; 417)	403	(276; 420)	0.386
Lunch	441	(327; 577)	441	(309; 589)	0.433
Afternoon snack	162	(41; 216)	194	(74; 260)	0.034
Evening meal	395	(238; 475)	400	(259; 521)	0.972
Evening snack	94.5	(47; 162)	163	(93; 178)	0.182
Overall intake from hospital food ^a	1386	(784; 1894)	1592	(1097; 1907)	0.209
Other food b	593	(473: 638)	39	(0: 120)	0.001
Total intake	2131	(1348; 2345)	1616	(1097; 1927)	0.005
Total intake, kcal/kg/dayc	30	(19; 39)	22	(13; 30)	0.005
Intake/requirement, % d	119	(76; 155)	87	(51; 119)	0.005
Reaching≥75% of requirement, %	86		79		
Protein, g/day					
Breakfast	11	(8; 12)	12	(8; 12)	0.385
Lunch	23	(19; 30)	21	(17; 30)	0.975
Afternoon snack	3	(2; 4)	4	(2; 4)	0.050
Evening meal	18	(13; 27)	22	(10; 31)	0.753
Evening snack	3	(1; 7)	6	(1; 7)	0.534
Overall intake from hospital food a	63	(39; 82)	67	(41; 78)	0.695
Other food b	25	(20; 25)	1	(0; 5)	0.001
Total intake	85	(60; 100)	70	(44; 80)	0.004
Total intake, g/kg/day	1.2	(0.8; 1.5)	0.9	(0.7; 1.3)	0.004
Intake/requirement, % d	103	(70; 123)	76	(62; 101)	0.004
Reaching≥75% of requirement, %	71		54		





Results









Thank you for listening



