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Title: Asthma control and demographic, nutritional, functional and quality of life

Ms. Carmen 17500 Centeno carmencen@hotmail.com MD ¹, Mr. Carlos 17501 Martinez carmencen@hotmail.com MD ¹, Mr. Zoran 17502 Stojanovic carmencen@hotmail.com MD ¹, Ms. Nuria 17503 Bruguera carmencen@hotmail.com MD ¹, Mr. Jorge 17504 Abad carmencen@hotmail.com MD ¹, Mr. Ignasi 17506 Garcia carmencen@hotmail.com MD ¹, Ms. Marisol 17507 Prats carmencen@hotmail.com MD ¹, Mr. Juan 17508 Ruiz-Manzano carmencen@hotmail.com MD ¹ and Mr. Josep 17509 Morera carmencen@hotmail.com MD ¹. ¹ Pneumology, Hospital Universtario Germans Trias i Pujol, Badalona, Barcelona, Spain, 08916 .

Body: We studied if the Asthma Control Test (ACT) is related to nutritional and inflammation status, symptoms, lung function and quality of life (QOL). **METHODS** Prospective cross-sectional study with 3 groups: ACT<15, ACT 15-20 and ACT>20; assesing: demographic data, nutritional and inflammation status, lung function, n^o of exacerbations, hyperventilation syndrome (Nijmegen Questionnaire, NQ) and QOL (St. George's Respiratory Questionnaire, SGRQ). **RESULTS** 81 patients (19 men, 62 women, 47.4±16.1 years). Average ACT was 18.7±5 (poorly controlled group, PCG 22.2% vs well-controlled group, WCG 50.62%). There were significant differences in the 3 groups.

Table 1

	PCG	Partially	WCG	P
Age	49.7±14	51.7±16	44.2±16	NS
BMI	28.9±6	29.6±6	27.1±5	NS
% Severe asthma	94	62	32	0.000
FEV1%	65.4±20	76.3±17	82.8±18	0.006
N ^o exacerbations	4±3	2.4±3	0.8±0.9	0.002
Dispnea MRC	1.12±0.8	1.19±0.8	0.32±0.5	0.000
CRP	9.2±12	3.1±1.9	3.1±3.7	0.034
NQ	24.2±8.5	26±10	15±9	0.000
SGRQ	60.8±16.8	55.2±15	37±11.4	0.000
Activity	71.8±22	63.5±22	36.2±20	0.000
Symptoms	61.8±19.8	56±12	43.8±11.8	0.002

Impact	54±16	49.2±18	35.4±11	0.001
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Using Bonferroni test, the differences were based on PCG and WCG. Only in dyspnea, FEV1%, NQ and SGRQ, we saw significant differences between partial and PCG. Multiple linear regression considered activity and symptoms (SGRQ) as independent variables. There were no differences in nutrition and inflammation, except for the CRP. CONCLUSIONS The difference between the three groups was at the expense of that between PCG and WCG. PCG presented severe course of disease, worse lung function, hyperventilation, some degree of inflammation, increased number of exacerbations and poorer QOL. There was no relationship between worse asthma control and nutrition.