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Title: Pseudomonas aeruginosa exacerbations in COPD patients

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Body: Background: Pseudomonas aeruginosa is found in COPD patients sputum in 4-15%, mainly in those with advanced disease and / or in pthose requiring mechanical ventilation. Currently, there are no data to justify an empiric antibiotic therapy against Pseudomonas aeruginosa when a new COPD exacerbation occurs in a patient with a previous Pseudomonas aeruginosa exacerbation. Methods: We conducted a retrospective study to analyse microbialogical ecology exacerbations in COPD patients with at least one Pseudomonas aeruginosa exacerbation Results: Among the 243 COPD patients hospitalized during the study period (2007-2011), only 23 (9.5%) had at least one Pseudomonas aeruginosa exacerbation (between 1 and 11 exacerbations per patient). They presented a new Pseudomonas aeruginosa exacerbation in 54% of cases. From one to an other exacerbation, the Pseudomonas aeruginosa susceptibility changed, with a wild type Pseudomonas aeruginosa in 58% of cases during the first exacerbation and 42% during the next one. COPD patients with GOLD stage IV were rarely hospitalized for a wild Pseudomonas aeruginosa exacerbation (p = 0.01, 15% vs.83% in GOLD stage II and III patients) Conclusion: In this pilot study, the microbialogical ecology of COPD exacerbation differed from one exacerbation to another, contrary to that observed in cystic fibrosis patients.