In Italy, between 2008 and 2015, 2013 and 2010, 40-49, 60-69, 2015, 2013, 2011, 2015, 2010, 2014, 2012, 2010, 2012, 2009, 2009, 2010, 2015, 2010, 2014, 2011, 2009, 80+, 2014, 2012, 2015, Image 0x3015 to 2384x3374, University, Rome; Aim of this study was to analyse the nationwide trend in hospital admissions for AD from 2008 to 2015, several epidemiological studies, conducted in Northern Europe and USA, have documented an increase in hospital admissions for AD. Over the study period, the number of hospital admissions for AD increased by 30% (p<0.001), whereas, from 2008 to 2015 a total of 174,436 hospitalization for AD were registered. Rates of hospital admissions increased, mainly for women. Rates were higher but unchanged for patients over 70 years. Individuals 18-39 years old experienced the lowest but increasing rate, with a mean increase of 6.6% per year. A significant increase in the rate of admissions was also documented for patients 60-69 years (mean increase 2.7% per year), patients 50-59 years (mean increase 5.1% per year), and for patients 40-49 years (mean increase 7.1% per year). Among patients below the age of 60 years hospital admissions were mainly for men; in contrast, among those over 60 years old hospital admissions were mainly for women. Background and Aim of the study was to analyse the nationwide trend in hospital admissions for AD from 2008 to 2015 and its association with gender, age, including in-hospital mortality. Results Rates of hospital admissions for AD From 2008 to 2015 a total of 174,436 hospitalization for AD were registered. Over the study period, the number of hospital admissions for AD increased by 30% (p<0.001), whereas, during the same time, the overall number of all-cause hospitalizations decreased by 25% (p=0.001). The overall rate of hospital admissions for AD per 100,000 inhabitants was 44 (3% increase per year). The overall rate of hospital admissions for AD per 100,000 hospitalizations was 248 (7.5% increase per year). Rates of hospital admissions for AD by gender and age Women display higher rates compared to men. Rates of hospital admissions increased significantly for both gender categories, but to a greater extent among men (mean increase per year 3.9% compared to 2.1% among women). Rates were higher but unchanged for patients over 70 years. Individuals 18-39 years old experienced the lowest but increasing rate, with a mean increase of 6.6% per year. A significant increase in the rate of admissions was also documented for patients 60-69 years (mean increase 2.7% per year), patients 50-59 years (mean increase 5.1% per year), and for patients 40-49 years (mean increase 7.1% per year). Among patients below the age of 60 years hospital admissions were mainly for men; in contrast, among those over 60 years old hospital admissions were mainly for women. In-hospital mortality Patients with 1 hospital and at least 2 hospital admission for AD increase significantly. The number of patients with 1 hospital admissions was significantly higher in comparison to number of patients with at least 2 hospitalizations (p<0.001). Conclusions In Italy, between 2008-2015 the rate of hospitalization for AD has been constantly increasing due to the hospitalization of younger individuals, especially men. Although hospitalization rate didn’t change among older patients, there was a significant increase of in-hospital mortality. These findings suggest the need for increased awareness and clinical skills in the management of this common condition.