

Age, gender characteristics, comorbidity and outcomes in patients with acute stroke and transient ischemic attack (REGION registry data)



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<u>Aim.</u> To analyse the characteristics and short-term outcomes in patients, hospitalized for acute stroke (AS) and transient ischemic attack (TIA) on a basis of the hospital registry in Moscow.

Methods. 900 patients with AS and TIA (age 71.0±15; 59.4% women), diagnosed in one of the hospitals in Moscow were enrolled in the REGION-Moscow registry during 2012 to 2017 years. Age and gender characteristics, risk factors, comorbidity and outcomes were estimated.

Results. Age of women (73.3±13.9) was 7 years more than for men (66.5±13.2), p<0.05. The next cardiovascular (CV) risk factors were detected: hypercholesterolemia in 410 (45.6%) cases, smoking - 104 (11.6%), family history of premature CV diseases - 10 (1.1%). Diabetes and obesity were revealed in 181 (20.1%) and 193 (21.4%), respectively.

Hypertension (AH) was diagnosed in 856 (95.1%) cases (Fig.1), coronary artery disease (CAD) - 517 (57.4%), chronic heart failure (CHF) - 164 (18.2%), atrial fibrillation (AF) - 268 (29.8%). 216 (24%) patients had a history of stroke and 197 (21.9%) history of myocardial infarction. 75% of patients had ischemic stroke, 10% - hemorrhagic, 2% - mixed type and 13% - TIA (Fig.2).

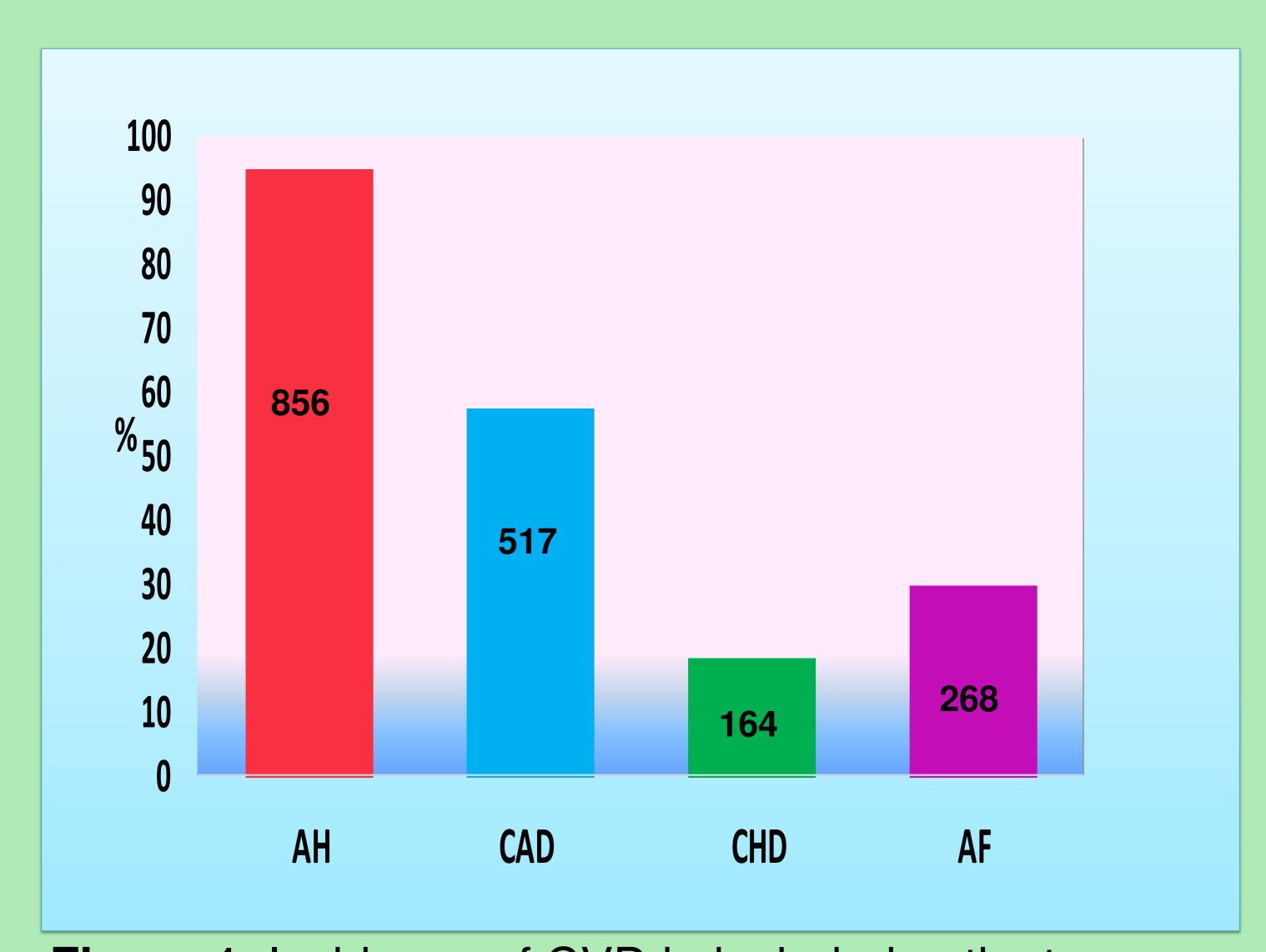


Figure 1. Incidence of CVD in included patients

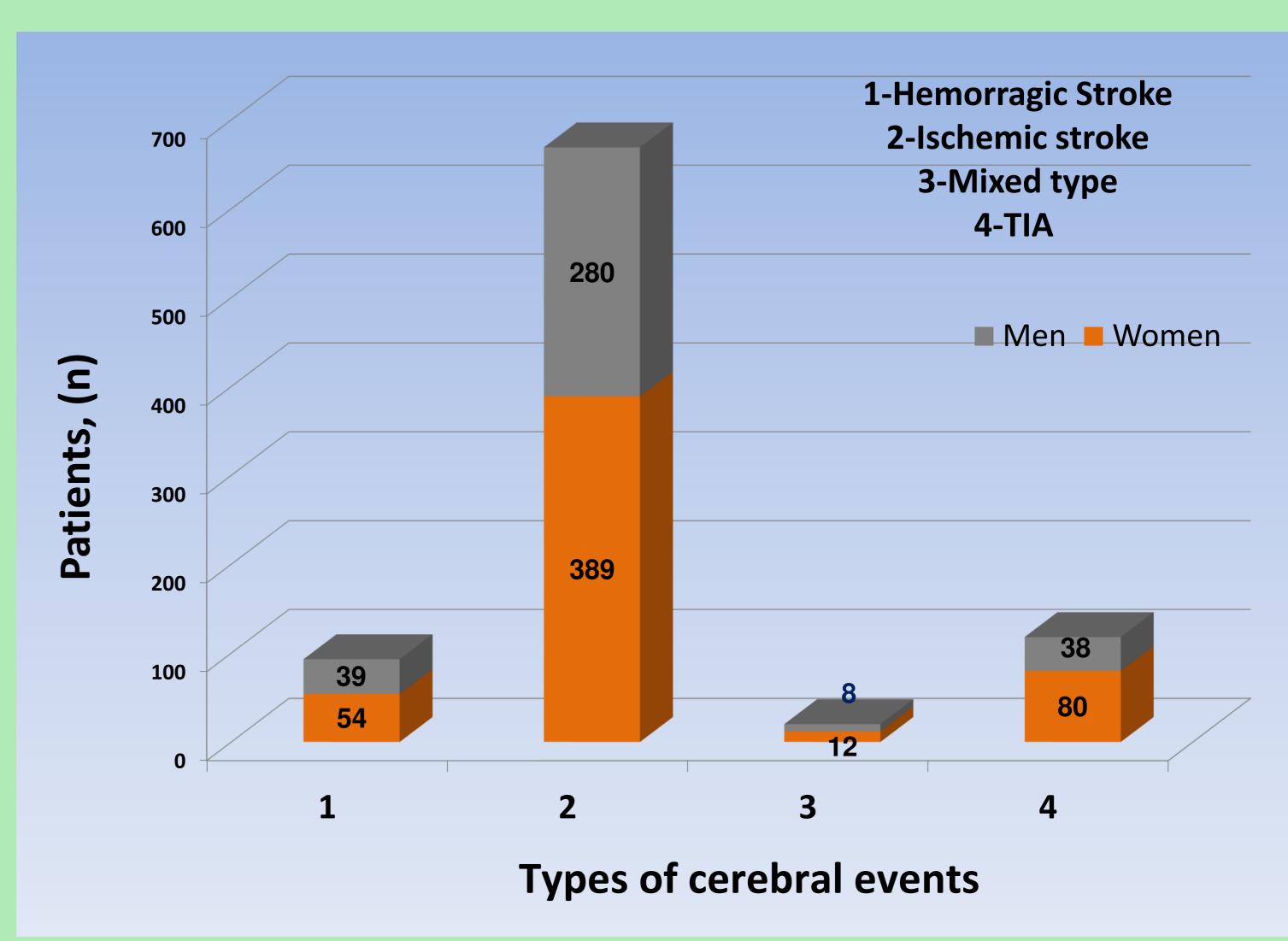


Figure 2. Incidence of different types of cerebral events

Average level of the hospital mortality during 2012-2017 period was 24,0% (**Fig.3**). There was a sharp of mortality increase in 2013 (34.3% of patients), that coincided with organization of the hospital "Vascular Center", and following progressive decrease of this parameter in 2014-2017 period up to 19% (p for trend < 0.05).

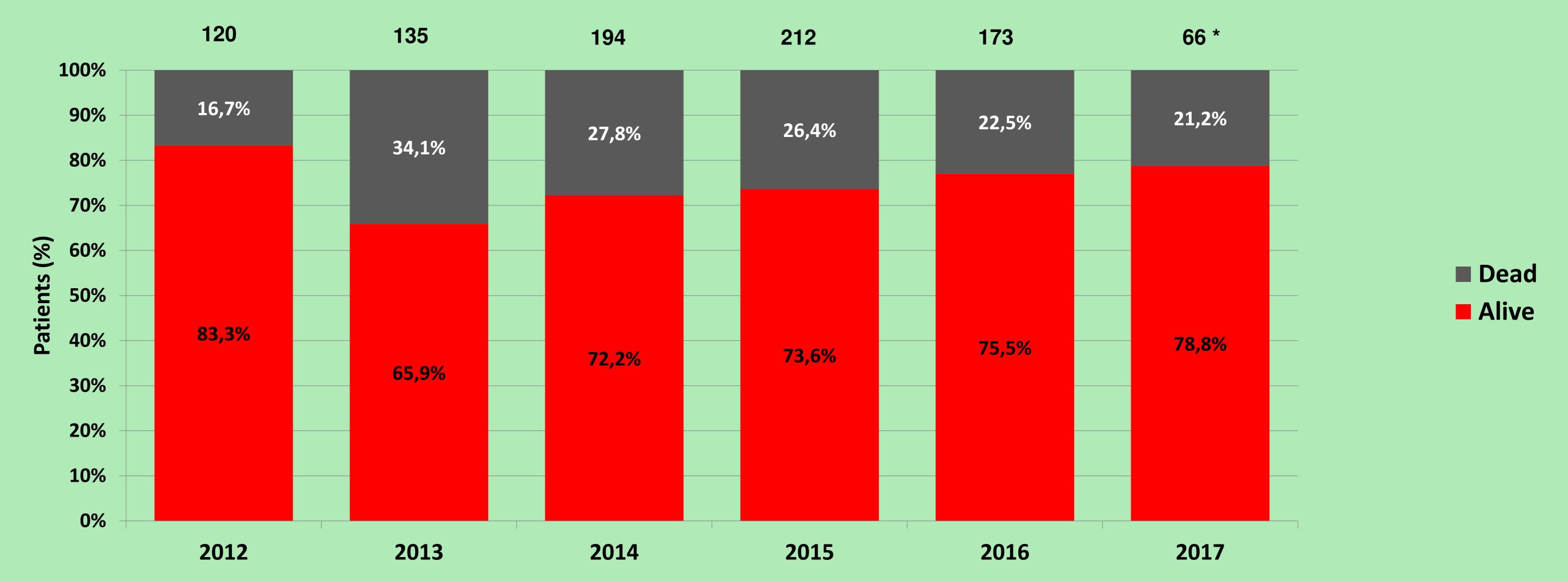


Figure 3. Dynamics of hospital mortality in included patients (2012-2017)

*- data for 01-04.2017

<u>Conclusions.</u> The REGION study revealed a prevalence of eldery persons and women in group of patients with AS and TIA. CV multimorbidity (i.e. 2 and more CV diseases) was identified in 68.7% of cases. Organization of the "Vascular Center" led to the following significant decrease in hospital mortality in patients with AS and TIA.

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