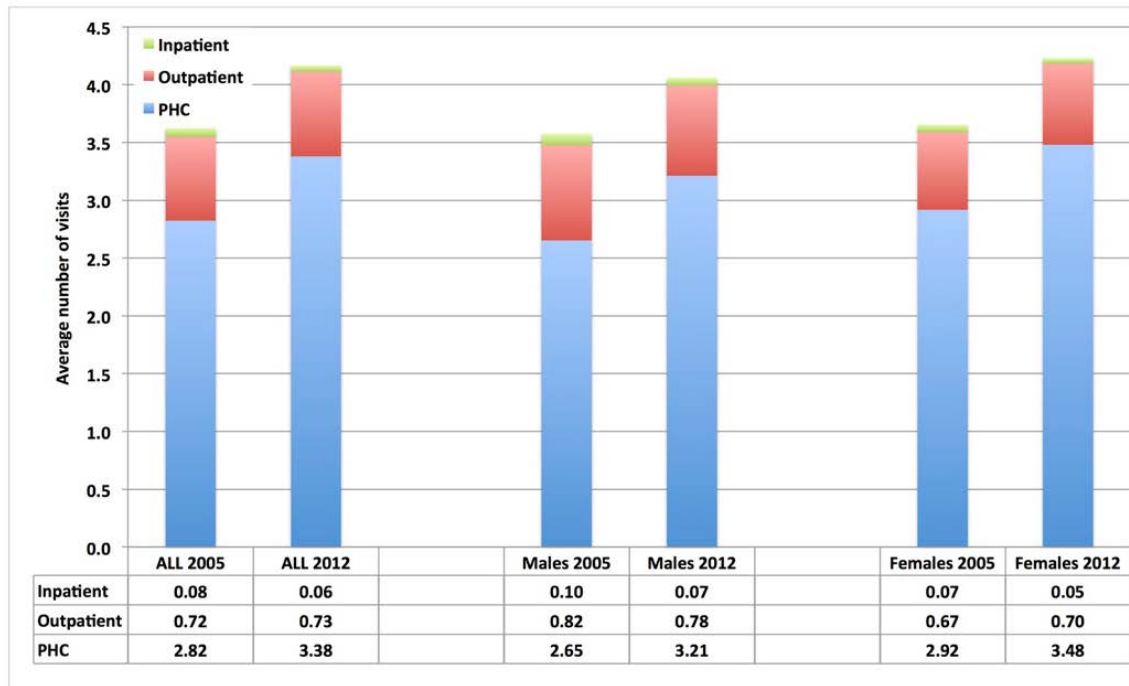


## Online Supplementary Document

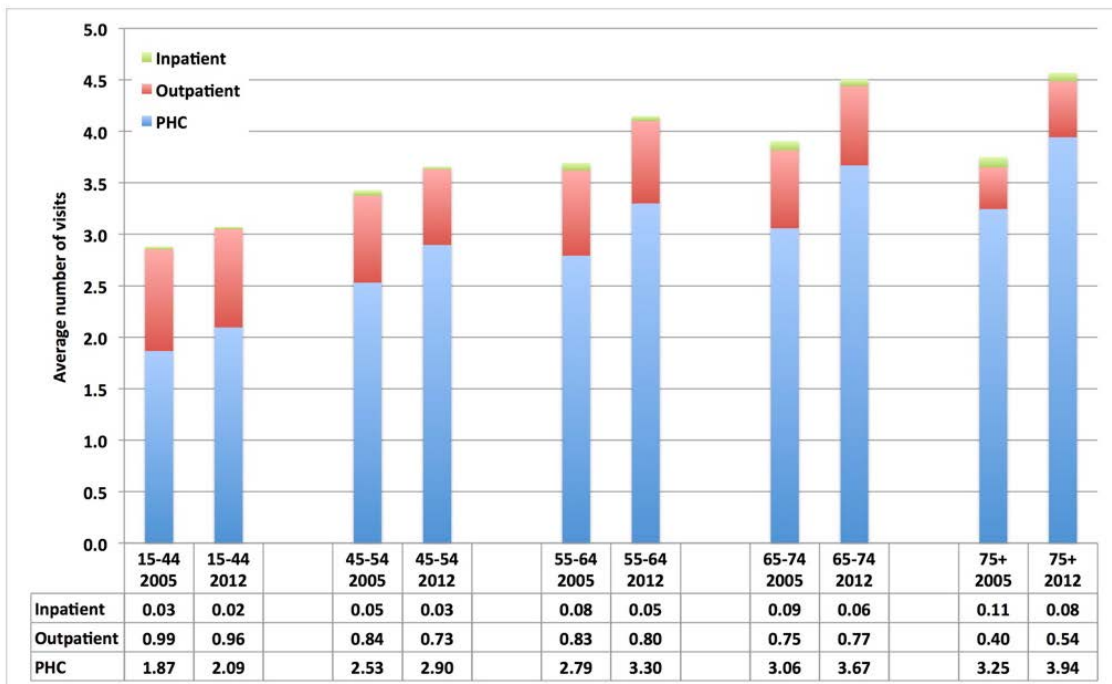
Atun et al. Shifting chronic disease management from hospitals to primary care in Estonian health system: econometric analysis of national panel data

JoGH 2016;6:020701

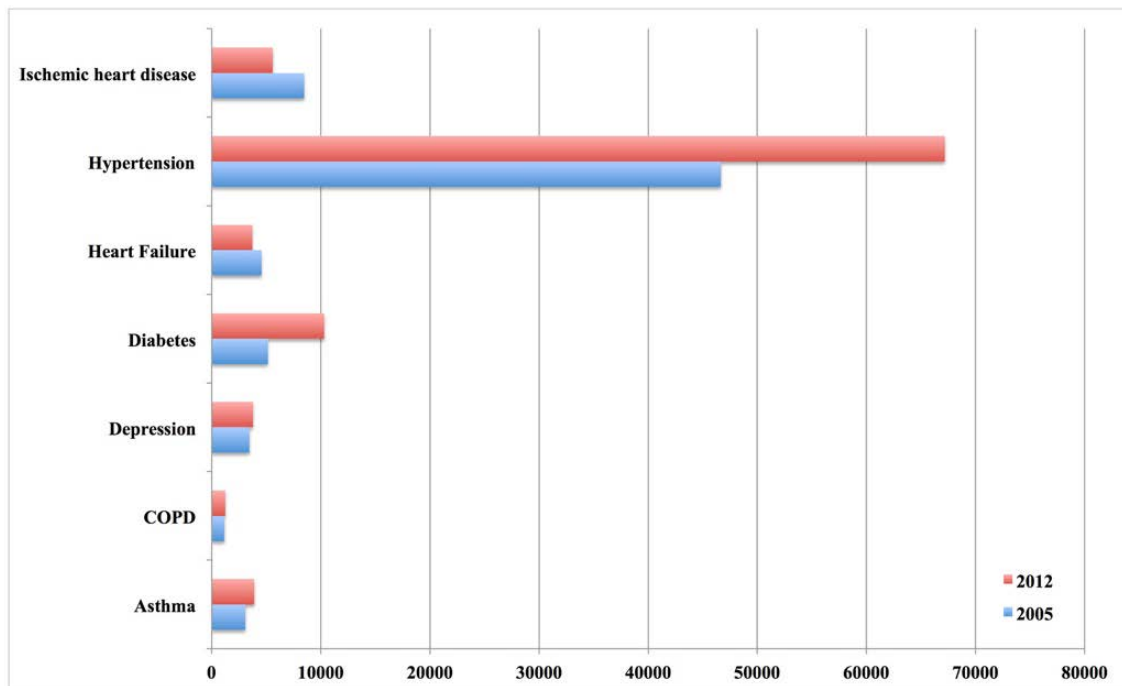
**Figure S1.** Number of visits in primary, outpatient and inpatient care, all and by gender, 2005 and 2012



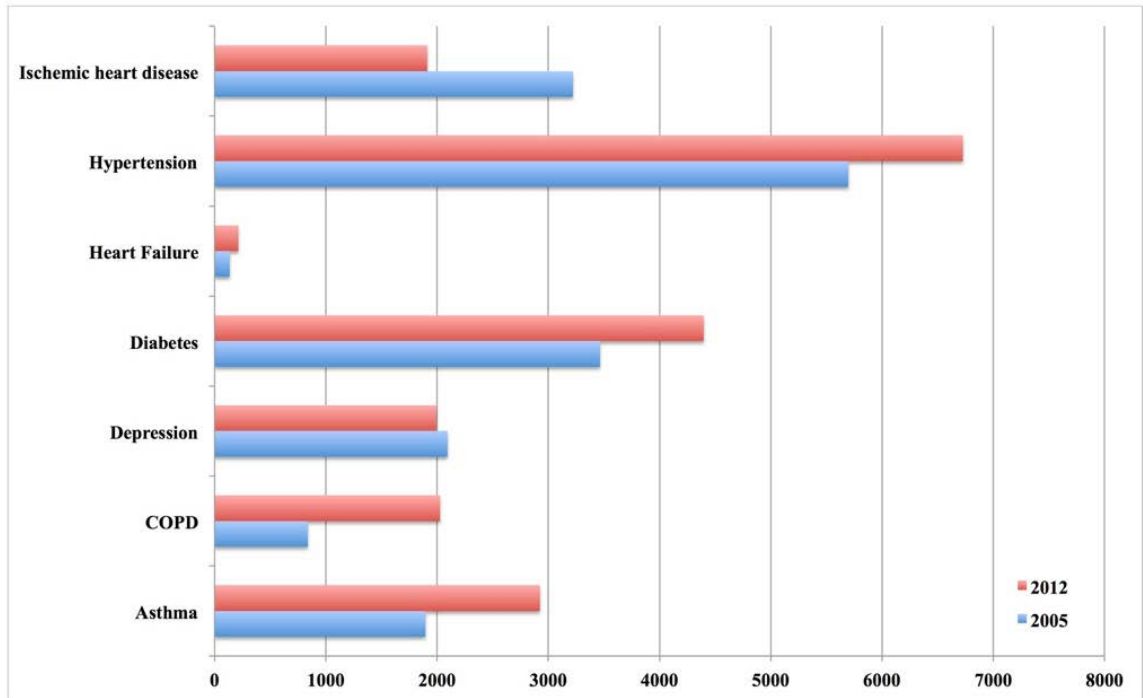
**Figure S2.** Number of visits in primary, outpatient and inpatient care, by age group, 2005 and 2012



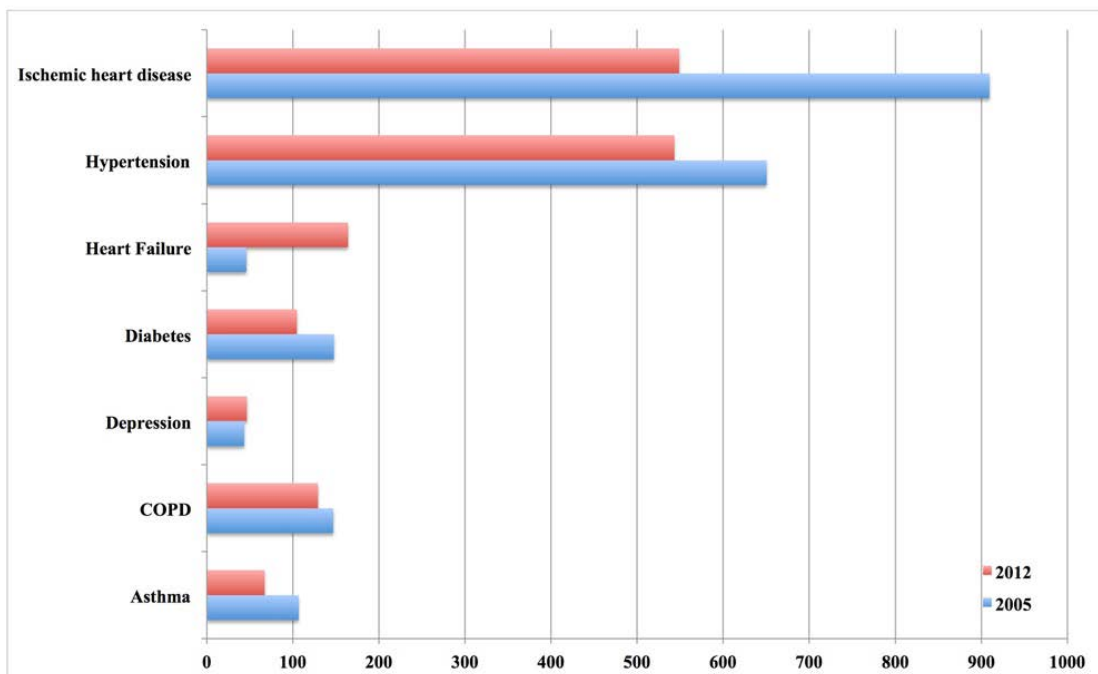
**Figure S3.** Age-standardised consultation (per 100,000 population) in primary health care for selected conditions (2005 and 2012)



**Figure S4.** Age-standardised consultation rates (per 100,000 population) in outpatients for selected conditions (2005 and 2012)



**Figure S5.** Age-standardised admission (inpatient) rates (per 100,000 population) for selected conditions (2005 and 2012)



**Table S1.** Multivariate regression models of age-standardised inpatient admission rates, by condition. (Linear regression with county level random effects, n=120 county-year observations)

	Total	Asthma	COPD	Depression	Diabetes	Heart Failure	Hypertension	IHD
<b>Year</b>	-	-	-	ns	-	+	-	-
% of patients aged 65+	ns	ns	ns	ns	ns	ns	ns	ns
% of patients with MM3+	ns	-	+	ns	ns	ns	ns	ns
Number of hospitals	+	ns	ns	ns	ns	ns	+	ns
Number of hospital beds	ns	ns	ns	ns	ns	ns	ns	ns
Doctors in FM (FTE)	ns	ns	ns	ns	ns	-	ns	ns
Nurse / Doctor ratio in FM	ns	ns	+	ns	-	ns	-	+
Employment rate	ns	ns	ns	ns	ns	ns	ns	ns
Disposable income (log)	ns	ns	ns	ns	ns	ns	+	ns
Population (log)	ns	ns	ns	ns	ns	ns	-	ns

ns:  $p > 0.05$ ; + positively associated with inpatient admissions ( $p < 0.05$ ); - negatively associated with inpatient admissions ( $p < 0.05$ )

COPD- Chronic Obstructive Pulmonary Disease; IHD – Ischaemic Heart Disease; MM3+ - 3 or more multi-morbidities; FM – Family Medicine; FTE – Full-time Equivalent;