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**THE EFFECT OF DEPRESSION ON PREMATURE VENTRICULAR CONTRACTIONS (PVCs) IN CORONARY HEART DISEASE (CHD) PATIENTS UNDERGOING PERCUTANEOUS CORONARY INTERVENTION**

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**Objectives** To determine whether Depression increases the incidence rate of premature ventricular contractions (PVCs) in CHD patients undergoing PCI.

**Methods** From November 1, 2010 and ended on October 30, 2011.160 CHD patients from single center were assigned to either the depression or the non-depression group according a validated Chinese version of Beck Depression Inventory (BDI). PVCs was required Lown Classification. The primary end point was the occurrence of SCDs at 6 months, including ICD, Cardiopulmonary Resuscitation (CPR). Secondary end point was antiarrhythmic drug (AAD) administration.

**Results** At 3 months, PVCs (Lown I-IVA) and AAD administration rates were significantly different between the depression (33.7% and 43.5%) and the non-depression groups (15% and 17.5%,  $p<0.05$ ). At 6-month, additional PVCs (Lown IVB-V) in the depression group (7.5%) in occurring significantly more than in the non-depression group (2.5%,  $p<0.05$ ).there were nonsignificant differences in SCDs, CPR and ICD between the depression (5%, 2.5%and 3.8%) and non-depression groups (2.5%, 2.5% and 4%,  $p>0.05$ ).

**Conclusions** depression was associated with a significant increase of PVCs and AAD administration in this CHD patient population underwending PCI. However, there was no significant difference in SCDs, CPR and ICD between the depression and the non-depression groups.