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HEALTHCARE RESOURCE UTILIZATION AND COSTS OF INTRAVITREAL RANIBIZUMAB OR AFLIBERCEPT VS. DEXAMETHASONE FOR DIABETIC MACULAR EDEMA IN TAIWAN Hui-Yu Chen, Shih-Chieh Shao 1 Department of Pharmacy, Linkou Chang Gung Memorial Hospital, Taiwan 2 Department of Pharmacy, Keelung Chang Gung Memorial Hospital, Taiwan



Both intravitreal dexamethasone implant (DEX-implant) and antivascular endothelial growth factor (anti-VEGF) drugs have shown optimal efficacy and safety in diabetic macular edema (DME), but the compaisions of healthcare utilization and medical costs among these drugs remain



We included a total of 3,510 patients with DME newly receiving intravitreal anti-VEGF drugs (n=3402) and DEX-implant (n=108).

We found the average outpatient medical cost per person for eye cares was lower for the DEXimplant group (NTD 81494.6 vs. 98979.0; p=0.002), compared to anti-VEGF group during the follow-up period.

The average intravitreal injections per person for eye cares was lower for the DEX-implant group (1.8 vs. 3.5; p<0.001), compared to anti-VEGF group during the follow-up period. However, patients with DEX-implant received more penuma tonometry (2.5 vs. 1.9; p=0.038) and fundus examination (3.3 vs. 1.8; p < 0.001), compared to anti-VEGF group during the follow-up periods.

limited.

Methods

This retrospective cohort study from Chang Gung Memorial Hospitals included patients with DME newly receiving intravitreal anti-VEGF drugs, including ranibizumab and ablifercept, and



DEX-implant from 2017 to 2021.

The primary outcome was the 1year DME-related healthcare utilizations and direct medical cost per patient with DME that was reimbursed by the Taiwan's National Health Insurance.

In this largest multi-institutional study in Taiwan, we found the lower average direct outpatient medical cost per person for eye cares and number of intravitreal injections were lower for the DEX-implant group, compared to anti-VEGF group during the follow-up period.