

S Patil^{1*}, R Sahay², A Bhansali³, S Sharma⁴, A Sur⁵, A Dengra⁶, S Gupta⁷, R Iyer¹, A Sugumaran¹, S Mohanasundaram¹
¹Ministry of Medical Affairs, Cipla Ltd., Mumbai, India, ²Osmania Medical College and Hospital, Hyderabad, India, ³Gini Health, Chandigarh, India, ⁴Chandigarh
Diabetes Specialty Center, Jaipur, India, ⁵Peerless Hospital, Kolkata, India, ⁶Mahi Diabetes Centre, Madhya Pradesh, India, ⁷Sunil's Diabetes Care and Research Centre, Nagpur, India.

BACKGROUND

- Young-onset type 2 diabetes mellitus (YOD), defined by diagnosis of diabetes before the age of 40 years, presents a unique clinical and metabolic challenge¹
- Prevalence of YOD has increased from 4.5 to 7.8% over a period of 10 years²
- Scarcity of data on the effectiveness of vildagliptin SR in YOD patients.
- The NOVELTY study in Indian patients with Type 2 diabetes mellitus (T2DM), provided an opportunity to evaluate the effect of Vildagliptin SR in YOD patients from India³

NOVELTY Study³

Objective

To evaluate the effectiveness and safety of vildagliptin SR in T2DM patients over a period of 3 months.

Study Design

- Single-arm, observational, prospective, open-label, multicenter, cohort study in India
- T2DM inadequately controlled on metformin monotherapy received vildagliptin SR once daily for 3 months

Inclusion Criteria

- Adult T2DM patients (aged 18 years and above)
- Receiving metformin XR monotherapy at a total daily dose of at least 1000 mg

Exclusion Criteria

- History of hypersensitivity reactions to vildagliptin
- Pregnant/lactating women, and those with a history of hepatic disorders/renal impairment/or any other contraindication for the use of vildagliptin
- Additionally, patients with a history of acute metabolic diabetes complications in the 6 months preceding the study
- Patients with congestive heart failure, unstable angina, or myocardial infarction, or a history of coronary artery bypass surgery within the last 6 months

OBJECTIVE

To assess the clinical outcomes following 3 months of vildagliptin SR therapy in patients.

METHODOLOGY

Post-hoc subgroup analysis of NOVELTY Study

Inclusion Criteria

- T2DM patients enrolled in NOVELTY study and with an age <40 years at T2DM diagnosis.

Assessment

- Change in HbA1c, FPG, PPG,
- % patients achieved HbA1c target (<7%)
- Changes in cardiometabolic parameters
- Physicians' and Patients' assessments on treatment

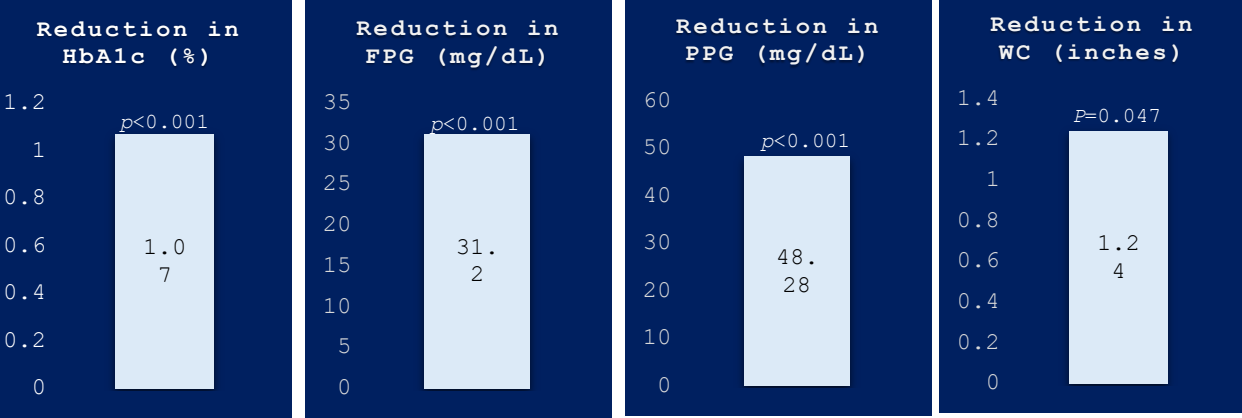
DISCLOSURES
Sushama Patil, Rahul Iyer, Amarnath Sugumaran, Senthilnathan Mohanasundaram are employees of Cipla Limited, India. All other authors have no conflict of interest to declare.
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RESULTS

Out of 1691 T2DM patients from NOVELTY study, 182 (10.8%) were patients

	HbA1c (%)	FPG (mg/dL)	PPG (mg/dL)	SBP (mmHg)	DBP (mmHg)	WC (inches)	BMI (kg/m ²)
Baseline	8.24 (1.32)	156.98 (40.77)	231.85 (57.76)	127.34 (15.89)	81.93 (8.42)	40.17 (16.11)	27.91 (6.60)
After 3 Months	7.17 (0.95)	125.76 (27.47)	183.57 (46.42)	125.31 (14.53)	80.70 (9.22)	38.93 (16.11)	27.50 (4.91)

Data presented as mean (SD), unless otherwise specified.



- % of patients achieved HbA1c <7.0%: 45.6
- Physician assessment of efficacy and tolerability: Positive in ~95%
 - Patient satisfaction : Positive experience in ~94%

CONCLUSION

- Vildagliptin SR significantly improved glycemic and metabolic outcomes in YOD over 3 months.
- Results support early, aggressive intervention in YOD patients with distinct clinical needs.
- Highlights the value of age-specific analysis in real-world diabetes management.

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