

NHAI ARA DRUGA

WHAT IS GLP-1?

- Glucagon Peptide 1 Receptor Agonist
- Hormone Created by Small Intestines
- Regulate blood sugar levels and appetite
- GLP-1 (Glucagon-like Peptide-1) medications mimic the natural hormone GLP-1

PRIMARY ROLES OF GLP-1 HORMONE AND DRUG

Increase insulin Decrease glucagon Suppress appetite Slow stomach emptying



<u>GLP - 1</u>

Insulin Glucogon Gastric emptying GI motility

Food intake Water intake

Inactivated by dipeptidyl peptidase-4 (DPP-4)

ACTION

Stimulate insulin secretion after an oral glucose load via the incretin effect

Delayed gastric emptying and inhibiting glucagon production from pancreatic α-cells if blood SUBCHANISM OF sugar levels are high

Pharmacological levels of GLP-1 can revive insulin excretion Can decrease pancreatic β-cell apoptosis while promoting their proliferation



SETTINT L'UNITIES

GLP-1 drugs go beyond weight—they may protect your heart and liver too

Health Issue	GLP-1 Benefits
Type 2 Diabetes	Better blood sugar control
Obesity	Significant weight loss
Cardiovascular Disease	Reduced risk with some medications
Possibly in Future:	NASH, PCOS, heart-specific outcomes

These drugs are outperforming previous diabetes meds in both sugar and weight control (up to 20% weight loss)



(%) ETAS EDIAEUAVES PREVAUERA EETEBALU IN ASEAN COUNTRIES 2022



Source : (Word Data Bank, 2022)

OBESTY PREVALENCE RATE (%) IN ASEAN COUNTRIES 2022



Source : (World Obesity Observatory, 2022)

35



Targeting liver diseases (NASH) Clinical trials are assessing GLP-1 therapies for non-alcoholic steatohepatitis (NASH) and polycystic ovary syndrome (PCOS).

More heart-focused variants - Future treatments could see even greater cardiovascular benefits or new drugs that are designed specifically for heart health

Personalized medicine using genetic profiling - Advances in genetic research and biomarkers may allow doctors to select the most appropriate GLP-1 treatment based on a patient's genetic makeup

Combo therapies (GLP-1 + SGLT2 or DPP-4) - Future GLP-1 treatments could be combined with SGLT-2 inhibitors or DPP-4 inhibitors, to create multi-action drugs.