**Problem**
With age, pancreas function decreases progressively, mainly by excessive consumption of sugars, generating increased insulin resistance.

**Uses**
Malabsorption syndrome, type II diabetes mellitus, metabolic syndrome and Hepatic impairment.

**Solution**
The contribution of cellular cytokines and growth factors in embryonic extracts has a refreshing and revitalizing effect at the cellular level, which increases the specific functionality of the organ to be treated.

Antioxidant enzymes neutralize free radicals, thereby reducing damage from oxidative stress.

**Composition**

**Oral CELLORGANE 10**
Each 500-mg enteric coated tablet contains:
- Opotherepetic cell extracts: Pancreas 50%, embryonic ectoderm 10%, Thymus 10%, Placenta 10%;
- Antioxidant enzyme complex: Superoxide dismutase, glutathione peroxidase, glutathione reductase, glutathione transferase;
- Maltodextrin 20% and stabilizers.

**Injectable CELLORGANE 10**
Each 750-mg Lyophilized Vial contains:
- Opotherepetic cell extracts: Pancreas 50%, embryonic ectoderm 10%, Thymus 10%, Stabilizers and Mannitol 30%.

**Formula components reach the cells directly or indirectly, in the case of oral products, by bloodstream, and are selectively incorporated into the cells through various means of cellular transport.**

**Action Mechanisms**
It works by revitalizing the pancreas, improving pancreatic function.

**Posology**

- **Orally:**
  - Two tablets in the morning and 2 at night, for at least six months.

- **Intramuscular:**
  - 2 ml daily for 5 days, rest for two days and restart with 2 ml daily for 5 days. Repeat treatment at 6 months.

The tablets are taken in the morning on an empty stomach and at night before dinner (30 minutes before meals).

**Contraindications**
- Allergies to animal proteins
- Allergy to any of its components
- Pregnancy and lactation

**NOTE:**
The dose may be increased according to the clinical picture of the patient and the physician’s discretion; the results depend on the completion of treatment.

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**Table: Revitalizing Therapy Formula 10 Pancreas**

<table>
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<tr>
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## Adjuvant treatment with:

<table>
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<tr>
<th>Category</th>
<th>Therapeutic Class</th>
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</table>
| **Antihypertensive and heart failure** | Calcium antagonists: Nifedipine  
ACE inhibitors: Enalapril, Captopril  
ARB-II: losartan, candesartan  
Beta-blockers: Atenolol, Metoprolol, Carvedilol, Bisoprolol  
Thiazide diuretics: Hydrochlorothiazide, chlorothalidone, indapamide, xipamide, Ameride (thiazide & K⁺ saver) |
| **Hypoglycemic**                | Biguanides: Metformin  
Inhibitors of alpha-glucosidase: Acarbose  
Sulfonylureas: glibenclamide, glimepiride, glyburide and Tolazamide  
Injectable drugs (like GLP-1): Sitagliptin, Saxagliptin, and linagliptin  
Meglitinides: Repaglinide, nateglinide  
SGLT2 Inhibitors: Dapagliflozin  
Thiazolidinediones: Pioglitazone  
DPP IV inhibitors: Sitagliptin and vildagliptin  
Injectable insulin  
K⁺ Savers: Spironolactone  
Osmotic: Mannitol |
| **Diuretics**                   | Loop diuretics: Furosemide, Amiloride  
Thiazide and analogues: IDEM (above)  
K⁺ Savers: Spironolactone  
Loop diuretics: Furosemide, Amiloride  
Thiazide and analogues: IDEM (above)  
K⁺ Savers: Spironolactone  
Osmotic: Mannitol |
| **Statins**                     | Selective, competitive inhibitors of HMG-CoA reductase: atorvastatin, simvastatin, pravastatin |
| **Coronary vasodilators**       | Antianginal: Calcium antagonists - Nifedipine  
Competitive antagonist of beta 1 and beta 2 adrenergic receptors: Propranolol |
| **Heart failure**               | Digitalis: Digoxin |
| **Venous insufficiency**        | Venotonic and vasculoprotective drugs: Diosmin, Hidrosmin, Horse Chestnut Seed |
| **Antidepressants**             | Selective serotonin reuptake inhibitors (SSRIs): paroxetine, sertraline, fluoxetine, citalopram, escitalopram  
Serotonin-norepinephrine reuptake inhibitors (SNRIs): venlafaxine, duloxetine, Desvenlafaxine  
NaSSA: Mirtazapine  
Tricyclic: amitriptyline, clomipramine, imipramine  
MAOIs: Moclobemide  
Serotonin-norepinephrine reuptake inhibitor (SNRI): Reboxetine  
Dopamine-norepinephrine reuptake inhibitor (DNI): Bupropion |
| **Anti-anemic**                 | Iron |
| **Renal impairment**            | Recombinant erythropoietin, Furosemide, Amino Acids |
| **Erectile dysfunction (ED)**   | Cyclic GMP-specific phosphodiesterase type 5 (PDE5): Sildenafil |