Figure S1

Analysed (n=20)

Analysed (n=8)

Assessed for eligibility (n=31)

Lost to follow-up (n=0) at the end study

Allocated to **propolis group** (n= 20)

Lost to follow-up (n=2) at the end study

* Respiratory complication(n=1)
* Heart surgery (n=1)

Allocated to **control group** (n=11)

**Allocation**

**Analysis**

**Follow-Up**

**Enrollment and Follow up**

Figure S2

Table S1



Table S2

|  |  |  |
| --- | --- | --- |
| **Scale** | **Categorical Description** | **Percentage of deposit connective tissue** |
| I | Vital (normal tissue) | Less than 5% |
| II | Fibrosis expansion (+/-) | Among 5 and 20% |
| III | Fibrosis expansion around vessel areas and connecting some of them | Among 20 and 40% |
| IV | Fibrosis expansion (marked bringing) | Among 40 and 80% |
| V | Cicatrized tissue  | Over 80% or less tan 5% vital tissue |

Table S3

|  |  |  |
| --- | --- | --- |
|  | Control | Propolis |
| Concomitant pathologies |  |  |
| Obesity | 100% | 100% |
| Dyslipidemia | 62.5% (5 subjects) | 40%(8 subjects) |
| Hypertension | 75% (6 subjects) | 95% (19 subjects) |
| Coronary disease | 0% | 10% (2 subjects) |
| Chronicle kidney disease | 37.5 (3 subjects) | 30%(6 subjects) |
| Anemia | 0% | 5% (1 subject) |
| Asthma | 0% | 5% (1 subject) |
| Chronic pharmacological therapies |  |  |
| Insulin (NPH) | 100% | 100% |
| ASA | 25% (2 subjects) | 35% (7 subjects) |
| Statins (atorvastatin) | 62.5 (5 subjects) | 40% (8 subjects) |
| ARBs (losartan) | 75% (6 subjects) | 95%(19 subjects) |
| Others antihypertensive medications (amlodipine, carvedilol, hydrochlorothiazide, others) | 50% (4 subjects) | 50% (1º subjects) |
| Others therapies | 0% | 10% (2 subjects) |

NPH Neutral protamine Hagedorn insulin.

ASA acetyl salicylic acid

ARBs Angiotensin II receptor blockers

Table S4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Control**  | **(%)** | **Propolis**  | **(%)** |
| **Types of bacteria present** | *S. aureus* | 33.4 | *S. aureus* | 30  |
|  | Streptococcus sp | 22.2 | *P. Aeruginosa* | 10  |
|  | *S. coagulasa* negative | 11.1 | Proteus sp | 5 |
|  | *E. Coli / K. pneumoniae* | 11.1 | Klebsiella sp | 5 |
|  | Negative culture | 22.2 | *S. Coagulasa* negative | 5 |
|  |   |   | Streptococcus sp | 5 |
|  |   |   | Negative culture | 40 |
| **Types of fungi present** | Negative culture |   | Negative culture |   |