ABSTRACTION

Therapy Sinusitis with Uv and Vapor bases on Mikrokntroller is a therapy device having function of multiple, that is killing germ cause of disease sinusitis (therapy by using UV) as well as improve drainage in nose district at patient sinusitis. Sinusitis itself is infection happened at sine (chamber is around [by] ocular, cheek, and nose) causing contains matter (viscid mucus turned yellow or greenness) which caused by gagging at orbit aperture at sine and gullet as result of matters, like infection (cause very often), adenoid as result of irritant material, for example smoke of cigarette and or disparity of anatomy at nasal bone or sine. To cure disease sinisitis done variously, one of them is is therapy exploiting intensity UV and warm vapor causing can lessen sigh suffered by patient.

At the module is former, only applies lamp UV and has not been equiped with governing of lamp intensity and temperature vapour. So based on the background, at this opportunity writer wish to design a therapy device for patient sinusitis as step of retouching of therapy device antecedent.

This device equiped with therapy time choice functioned to choose therapy process stripper. During therapy process taken place hence timer will be presented at LCD. Besides there is also governing of vapor temperature equal to 41^0C, 42^0C and 43^0C. At therapy device sinusitis by using this vapor applies censor functioned as temperature detector at mouthpiece. The censor that is temperature censor LM 35. To avoid its (the exit abundant vapour at mouthpiece, hence at this device also there is governing of vapor using blower to push hot weather to go out through mouthpiece.

Based on result of gauging at thermometer for every increase of temperature between 41°C-43°C is upper got average of error (%Error) equal to 0,267%. From gauging data at output LM35 for every increase of temperature between 41°C-43°C is upper got average of error (%Error) equal to 9,54%. While from counting of therapy time with gauging data from 6 - 9 minute is got [by] error (errors %) plane - plane 0,13 big %Semakin of blower speed, hence time applied to reach temperature setting also faster.

After done [by] production process and literature study, planning, experiment, assaying of device and data, got that operation of device easy for operator. From result of the analysis hence inferential that this therapy device have been effective in its(the penggunaa.

Keyword : terapy sinusitis, vapor therapy