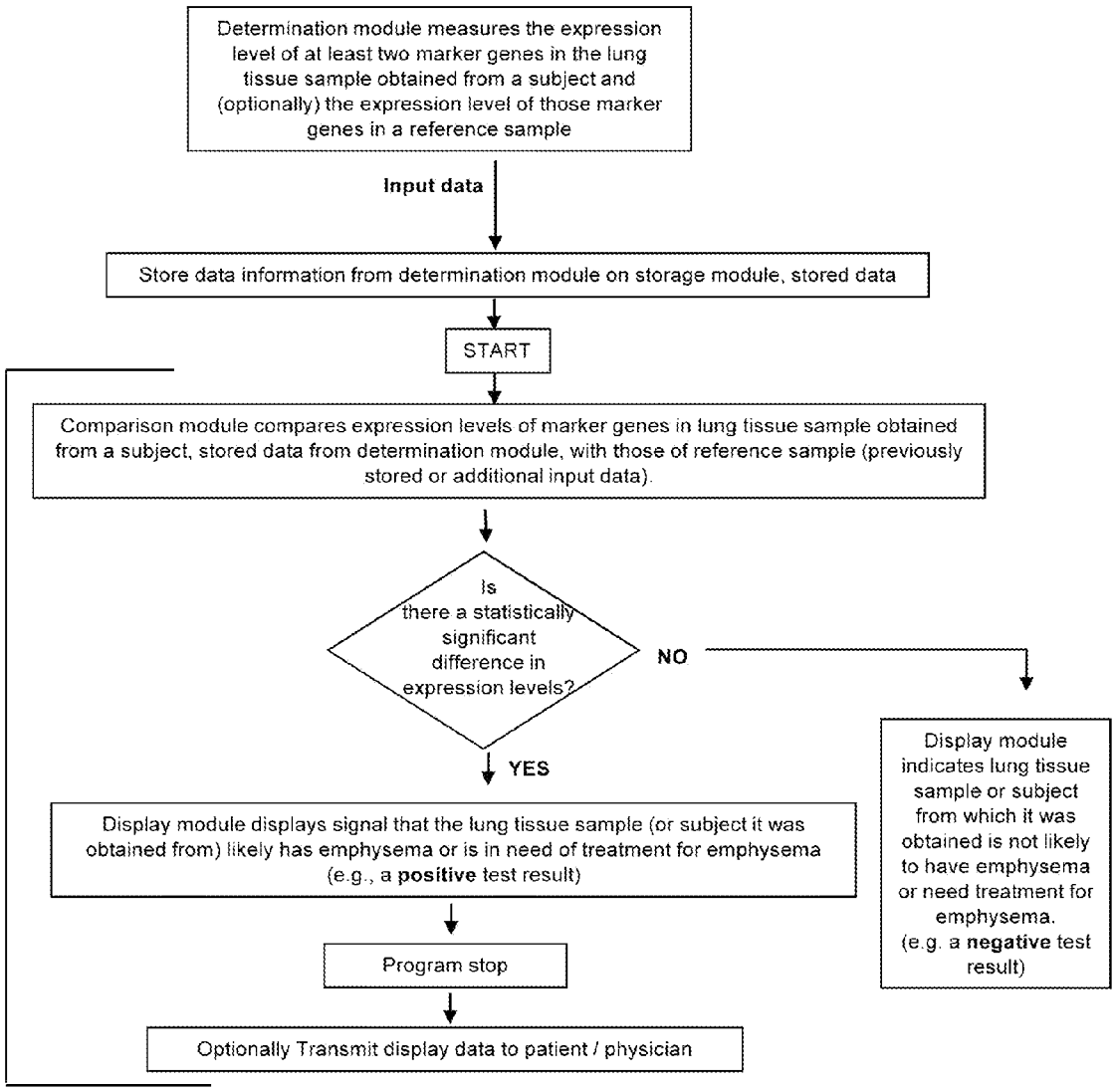
Determination module measures the expression level of at least two marker genes in the lung tissue sample obtained from a subject and (optionally) the expression level of those marker genes in a reference sample
Input data
Store data information from determination module on storage module, stored data
START
Comparison module compares expression levels of marker genes in lung tissue sample obtained from a subject, stored data from determination module, with those of reference sample (previously stored or additional input data).
Is there a statistically significant difference in expression levels?
NO
YES
Display module indicates lung tissue sample or subject from which it was obtained is not likely to have emphysema or need treatment for emphysema. (e.g. a negative test result)
Display module displays signal that the lung tissue sample (or subject it was obtained from) likely has emphysema or is in need of treatment for emphysema (e.g., a positive test result)
Program stop
Optionally Transmit display data to patient / physician

Figure 10