area = 0.025

area = 0.025

-1.96

μ

$+1.96 = 0.975$

$1 - 0.025$

0.975 area under the
table = $+1.96$

③ Test statistic

$$\text{T-test} = \frac{\bar{x} - \mu}{s/\sqrt{n}} = \frac{140 - 100}{15/\sqrt{30}} = 14.6$$

Decision Making

$14.60 > +1.96$ standard deviation

Hence we Reject NULL hypothesis
and accept the Null
hypothesis → Medication
has some +ve effect