WHO

2168

2168

(34.32%)
744

Severe Dehydration

933
(43.04%)

Some Dehydration

No Dehydration

491
(22.65%)

Overtreatment
probability 1 (%)

Correct treatment
probablity 2 (%)

Undertreatment
probability 3 (%)

Overtreatment
probability 1 (%)

Correct treatment
probability 2 (%)

Undertreatment
probability 3 (%)

Overtreatment
probability 1 (%)

Correct treatment
probability 2 (%)

Undertreatment
probability 3 (%)

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

COST &
DALY

126 true "Severe" but
WHO "Some" or "No"

126
(16.94%
of 744)

DALY = Years of Life Lost =
$\sum$ *(life expectancy − current age)*
= 7465

NIRUDAK

2136

(42.51%)
908

Severe Dehydration

622
(29.12%)

Some Dehydration

No Dehydration

606
(28.37%)

Overtreatment
probability 1 (%)

Correct treatment
probablity 2 (%)

Undertreatment
probability 3 (%)

Overtreatment
probability 1 (%)

Correct treatment
probability 2 (%)

Undertreatment
probability 3 (%)

Overtreatment
probability 1 (%)

Correct treatment
probability 2 (%)

Undertreatment
probability 3 (%)

COST & DALY

COST & DALY

COST & DALY

COST & DALY

COST & DALY

COST & DALY

COST & DALY

COST & DALY

COST & DALY

20
2.2%
(of 908)

DALY = YLL =
2589

WHO

probability (true "Severe" | WHO "Some" or "No")
x probability (WHO "Severe")

= (0.1694)
x (0.3432)

= 0.058

Expected Cost

$(0.058)(1495.48)$ — Σ cost for this subset

$+(0.942)(38769)$ — total cost minus cost for subset

1- subset prob. ↑ $40264 - 1495.48$

= $ 36,606.89

YLL $(0.058)(7465) = 432.97$ — Σ years life lost for the subset

NIRUDAK

probability (true "Severe" | NIRUDAK "Some" or "No")

$\times$ probability (NIRUDAK "Severe")

$= (0.022)$

$\times (0.4251)$

$= 0.0094$

Expected Cost

Σ cost for this subset

$(0.0094)(617.06)$

$+(0.9906)(38350)$

1 − subset prob.

total cost minus cost for subset
39329 − 617.06

$= \$38,354.59$

Σ years life lost for the subset

YLL $(0.0094)(2589) = 24.24$

$$ICER = \frac{Cost_{WHO} - Cost_{NIRUDAK}}{Effectiveness_{WHO} - Effectiveness_{NIRUDAK}}$$

$$= \frac{36,606.89 - 38,354.59}{432.97 - 24.24}$$

$$= \frac{-1747.70}{408.73}$$

$$= -4.28$$