# Journal of Community Medicine & Health Education

**Research Article** 

**Open Access** 

Study on Evaluation Indicators of Protective Effect and Eligibi

**Keywords:** Vaccī e; Pha e clī ical ial ; P blic heal h ea e ; C ehē i e ec i a e; Vaccī e ec i a e

## Introduction

Chì ical ial f acci e a e di ided i age I, II, i d IV. e Pha e I ial i ai l afe i d a be i i gi ici. Pha e II ial a e f he e i h i afe i d i i gi ici. Pha e II ial a e f he e i h i afe i d i i gi ici, i d ha e die a e ke a eld e al a i f di ec ec i e ec i d f he acc la e afe da a. A i g he, he ha e I, II i d chì ical ial h ld be c le ed be f e he cial a ke i g, ai l ed d he ec i e ec i d i k f acci e, i d i de eliable da a f he li ed e ie.

A e ê, ha e ial all di idea la géi be f e lei ci lg â d acci a i g b ai hei cidê ce f he ci lg â d acci a i g, â d hê calc la e he ec i a e a he ec i ec f acci a i [1]. Eligibili ci e ia a e he cê e al a i i dica f acci e ec i ec f 50% g ea e.

acci e iali a eldealai<sup>7</sup>. Acc di g e ha e Wa'g R 7 â al i fhe ec i a e f ha e ial f COVID-19 ecie ea e (blichealh ea e)hae a acci e, l cal geai ac 7 he c ê accie eci7 ae [2]. ec 🔊 eci7 aei7 i able f e al a i 7 f COVID-19 acci<sup>2</sup> e accie. e de i i 7 f c ehê i e eci7 ae a giê â di fea ibili a â e al a i 7 î dica f acci e ec i7 e ec а died.

ial f COVID-19 acci e, e Ba ed 7 he d f hae blic heal h ea e 🤈 ha e die 7 he i ac f f he ial fg@eal accie. e aĝica i f î cidê ce bia eci7 bia a deied. exiîg accîe i agʻi ca i7 i di ec l c 7 lled b he blic heal h ec i a e, he g ea e he blic heal h ec i  $\neg$  a e, he g ea e he ag i ca i  $\neg$  i e. I e eal he i ei al echai ha hec & accie ec i 7 iable f he e al a i i f acci e. Da a f aei7 exi î g ∩gl gge chi ical ial f COVID-19 acci e al ha e ha he blic heal h eci7 a e f c @ acci e i h high eci7 aeî hae ial a eg@ e all 1 ; a d acci e e ed Ta ea i hhigh a e f blicheal h eci7 🖾 🤁 hael

\*Corresponding author: Ruyun Wang, Department of Marine Hazards Forecasting, Hohai University, China, E-mail: 19890058@hhu.edu.cn

Received: 30-March-2022, Manuscript No. jcmhe-22-58971; Editor assigned: 01-April-2022, PreQC No. jcmhe-22-58971 (PQ); Reviewed: 15-April-2022, QC No. jcmhe-22-58971; Revised: 20-April-2022, Manuscript No. jcmhe-22-58971 (R); Published: 27-April-2022, DOI: 10.4172/2168-9717.1000748

**Citation:** Wang R (2022) Study on Evaluation Indicators of Protective Efect and Eligibility Criteria of Phase Iii Clinical Trial of Vaccine. J Comm Med Health Educ 12: 748.

**Copyright:** © 2022 Wang R. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Citation: Wang R (2022) Study on Evaluation Indicators of Protective Efect and Eligibility Criteria of Phase Iii Clinical Trial of Vaccine. J Comm Med Health Educ 12: 748.

eefe, i i a i a i e d hehe he ec i ae f hae accie ial ill bedie e i die e blic heal h e i i e, ha i, hehe blic heal h ea e ill hae a i ac i hec e accie ec i ae.

 $\mathbb{T}$  de facilia e he d, he de  $\mathcal{T}$  i  $\mathcal{T}$ , calc la  $\mathcal{T}$  f la  $\hat{\mathcal{A}}$  d calc la  $\mathcal{T}$  e h d f ec  $\mathcal{T}$  a e f blic heal h ea e a e gi  $\hat{\mathcal{C}}$  acc d $\hat{\mathcal{T}}$  g f la (1).

A  $\Im$  g ha hel cal $\Im$  cid $\vartheta$  ce a e bef e  $\Im$  d a  $\square$  e he ad i $\Im$  f

blic heal h ea e i  $r_n$  à d  $r_p$ , hè he f la f calc la i g he ec i i a e f blic heal h ea e i

$$b_p = 1 - \frac{r_p}{r_c}$$
(2)

Denition of vaccine protection rates before and a er the introduction of public health measures and the Comprehensive protective rate: If ha e  $acc\overline{r}e$  ial  $a e c \overline{r} d c ed \overline{r} \overline{a}$  a ea  $he e \overline{r}$  blic heal h ea e  $ae ak\overline{e} \overline{a} d he \overline{r}$  be  $fca e \overline{r}$  he  $c\overline{r}$  lg  $\overline{a} d$  he  $acc\overline{r}ai\overline{r}g$  a e e eciel a ked

a,  $m_{c/n}$  â d $m_{v/n}$ , hê heĩ cidê ce a eĩ he cĩ lg â dhe accĩa iĩ g a e e ci el

$$r_{c/n} = m_{c/n} / m_{v/n}^{m} F_{v/n}^{m} = m_{v/n} / m_{m}^{m}$$

He e i here be f e le  $\hat{r}$  each g .

e c e 
$$\neg$$
 dr g f la f Vaccre ec i $\gamma$  a e  $b_{v/n}$  r a ea  
he e $\gamma$  blic heal h ea e ha e beë akë i  
 $b_{v/n} = 1 - \frac{r_{v/n}}{r_{c/n}}$  (i)

If hae  $\operatorname{acc} \tilde{r}$  e ial  $\operatorname{aec} \tilde{r}$  d c ed  $\tilde{r}$  a ea ih blic heal h ea e  $\operatorname{ad}$  he  $\tilde{r}$  be f ca e  $\tilde{r}$  he c  $\tilde{r}$  l g  $\operatorname{ad}$  he acc $\tilde{r}$  a i  $\tilde{r}$  g a e d $\tilde{e}$  ed a  $m_{c/p}$   $\operatorname{ad}$  d  $m_{v/p}$ , h $\tilde{e}$  he  $\tilde{r}$  cid $\tilde{e}$  ce a e  $\tilde{r}$  he c  $\tilde{r}$  l g  $\operatorname{ad}$  he acc $\tilde{r}$  a i  $\tilde{r}$  g a e e eciel

$$r_{c/p} = m_{c/p} / m$$
,  $r_{v/p} = m_{v/p} / m$  (5)

e c e 7 dữ g f la f accĩ e e c i 7 a e  $b_{v/p}$ ĩ a ea he e blic heal h ea e ha e beê akê i

$$b_{v/p} = 1 - \frac{r_{v/p}}{r_{c/p}}$$

(6)

Page 2 of 5

Citation:

Citation: Wang R (2022) Study on Evaluation Indicators of Protective E fect and Eligibility Criteria of Phase Iii Clinical Trial of Vaccine. J Comm Med Health Educ 12: 748.

U de he e i e f<sup>b,</sup>, bei gidð i ed a he e al a i i l dica f he ecieeec f di eð acciei ha e ial, aj dg ð eh d i hig i ca ecieeeci eð ed he e.

A  $\hat{r}$ g ha he c eh $\hat{e}$  i e ec i  $\hat{r}$  a e calc la ed  $\hat{r}$  he egi $\hat{r}$  he e he ha e acc $\hat{r}$  e ial i  $b_{r,n}$ ,  $\hat{a}$  d he ec i  $\hat{r}$  a e f blic heal h ea e  $\hat{r}$  he egi $\hat{r}$  he e he acc $\hat{r}$  e i be  $\hat{r}$  c la ed i  $b_n$ , e e

 $I = b_{v_{p_0}} - b_{p_1}$ 

A he ig i câ ce e i dex f acci e ec i . When  $l^{\geq}$ , he acci e a c i ideed ha e ig i câ ec i e al e, a d  $(0 \leq \leq 1)$  i he h e h ld. H de e i e a a ia e h e h ld i l e l cal li ical, ec i c a d he i e, hich ill be died he e.

Ba ed 7 he ab e à al i fe al a i7 i dica f ha e acci e ial à d di c i7 f acci e elec i7 c i e ia, he ce f he acci e elec i7 i each egi i gge ed a f ll :

Se l: Calc la e he igi câ ce î de x I f he accî e î he a ea. Whê  $I \ge 0$ , he accî e a cî ide ed ha ea igi câ l cal ec i e al e.

Se 2: Selec he i able l cal acci e d c f acci a i  $\neg$  ba ed  $\neg b_{r,p_0}$  f he acci e ha ha e a ed he igi i ca ce i dex.

#### Conclusion

Ba ed 7 he ab e he e ical  $\hat{a}$  al i  $\hat{a}$  d ele  $\hat{a}$  da a e i ca i 7 7 he ha e ial fCOVID-19 acc $\hat{c}$  e, e b a $\hat{a}$  ed he f ll  $\hat{r}$  g c 7 cl i 7 :

ec @ acci e ec i a e @ deligibili c i e ia f e ed acci e a e hea il l @ ced b blic heal h ea e l he egi he e he ha e acci e i bei g e ed, @ d he ef e a e i ablea l dica f e al a l g he e ec i @ e f ec i ]

- be e  $\widehat{e}$  acc  $\widehat{e}$  a deligibili c i e i a f e  $\widehat{r}$  g acc  $\widehat{r}$  e .
- 1. I i gge ed e he c ehê i e ec iî a e a he e al a iî î dica f he e ec iê e fî e - accî e ec iî.
- 2. I i ec @ ded e he ig i ca ce f accie ec i i e ec , a d hê c a e he e all ec i i a e

de e î e hich c â accî a e î each egi 7.

### Refernces

- 1. Hall à ME, Lì gì i IM (2010) CJ De ig à d A al i f Vaccì e S die .
- 2. R ¬ Wâg(2021)S d ¬ ¬ c e r̃gbh ð e e i e ð að d ec i ¬ a e r̃ he id e f ha e iii ch'ical ial f C id-19 accre. Ad A Mah 10(3): 781-789.
- 3. P e à dBi NTech c7 cl de ha e 3 d f c id-19 acci e câ dida e, e<br/>e i g all i a e cac  $\mathfrak S$  d $\mathfrak T$  .
- 4. WHO c  $\gamma$  a i (COVID-19) da

#### Page 5 of 5