

Study on Evaluation Indicators of Protective Effect and Eligibility

Keywords: Vaccine; Phase clinical trial; Public health service; Community health education; Vaccine education

Introduction

Clinical trial of vaccine is divided into phase I, II, and IV. Phase I trial is mainly for safety and toxicity. Phase II trial is for efficacy and safety. Phase III trial is for efficacy and safety. Phase IV trial is for efficacy and safety. Phase I trial is for safety and toxicity. Phase II trial is for efficacy and safety. Phase III trial is for efficacy and safety. Phase IV trial is for efficacy and safety.

At present, the global epidemic of COVID-19 has become a major public health problem. The clinical trial of COVID-19 vaccine is an important link in the development of COVID-19 vaccine. The evaluation indicators of protective effect and eligibility are the key to the clinical trial of COVID-19 vaccine.

The purpose of this study is to explore the evaluation indicators of protective effect and eligibility of COVID-19 vaccine. The study will provide a theoretical basis for the clinical trial of COVID-19 vaccine.

Based on the current situation of COVID-19 vaccine, the study will explore the evaluation indicators of protective effect and eligibility. The study will provide a theoretical basis for the clinical trial of COVID-19 vaccine.

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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 Effect and Eligibility Criteria of Phase Iii Clinical Trial of Vaccine. J Comm Med Health Educ 12: 748.

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the formula (1) derived above, the effective protection rate of public health measures is given by the following formula, where r_p is the effective protection rate of public health measures, $r_{c/n}$ is the effective protection rate of public health measures before the introduction of public health measures, and $r_{v/n}$ is the effective protection rate of public health measures after the introduction of public health measures.

Therefore, the effective protection rate of public health measures is given by the following formula, where r_p is the effective protection rate of public health measures, $r_{c/n}$ is the effective protection rate of public health measures before the introduction of public health measures, and $r_{v/n}$ is the effective protection rate of public health measures after the introduction of public health measures.

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$$b_p = 1 - \frac{r_p}{r_{c/n}} \quad (2)$$

Definition of vaccine protection rates before and after the introduction of public health measures and the Comprehensive protective rate: If the effective protection rate of public health measures before the introduction of public health measures is $r_{c/n}$, the effective protection rate of public health measures after the introduction of public health measures is $r_{v/n}$, the effective protection rate of public health measures after the introduction of public health measures is $r_{c/p}$, and the effective protection rate of public health measures after the introduction of public health measures is $r_{v/p}$.

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$$r_{c/n} = m_{c/n} / m_{v/n} = m_{c/n} / m_{v/n} \quad (3)$$

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$$b_{v/n} = 1 - \frac{r_{v/n}}{r_{c/n}} \quad (4)$$

If the effective protection rate of public health measures before the introduction of public health measures is $r_{c/n}$, the effective protection rate of public health measures after the introduction of public health measures is $r_{v/n}$, the effective protection rate of public health measures after the introduction of public health measures is $r_{c/p}$, and the effective protection rate of public health measures after the introduction of public health measures is $r_{v/p}$.

$$r_{c/p} = m_{c/p} / m_{v/p} = m_{c/p} / m_{v/p} \quad (5)$$

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$$b_{v/p} = 1 - \frac{r_{v/p}}{r_{c/p}} \quad (6)$$

Citation:

U de he e i e f b_p beŕ gidè i eda he e al a iŕ ŕ dica f he eci e e ec f di e è accŕ e ŕ ha e ial ,aj dg è e h d i h iŕ i cã eci e e ec i e è ed he e.

A ŕ g ha he c ehè i e ec iŕ a e calc la ed ŕ he egiŕ he e he ha e accŕ e ial i b_p , à d he ec iŕ a e f blic heal h ea e ŕ he egiŕ he e he accŕ e i be ŕ c la ed i b_p , e e

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

A he iŕ i cã ce e ŕ dex f accŕ e ec iŕ . Whè $I \geq$, he accŕ e a cŕ ide ed ha e iŕ i cã eci e al e, à d ($0 \leq I \leq 1$) i he h e h ld. H de e ŕ e à a ia e h e h ld ŕ l e l cal lical, ecŕ ic à d he i e , hich illŕ be died he e.

Ba ed ŕ he ab e à al i f e al a iŕ ŕ dica f ha e accŕ e ial à d di c iŕ f accŕ e elec iŕ cie ia, he ce f he accŕ e elec iŕ ŕ each egiŕ i gge ed a f ll :

Se 1: Calc la e he iŕ i cã ce e ŕ dex I f he accŕ e ŕ he a ea. Whè $I \geq$, he accŕ e a cŕ ide ed ha ea iŕ i cã l cal eci e al e.

Se 2: Selec he i able l cal accŕ e d c f accŕ a iŕ ba ed ŕ b_p f he accŕ e ha ha e a ed he iŕ i cã ce e ŕ dex.

Conclusion

Ba ed ŕ he ab e he eical à al i à d ele à da a e i ca iŕ ŕ he ha e ial f COVID-19 accŕ e, e b à ed he f ll ŕ g cŕ cl iŕ :

ec è accŕ e ec iŕ a e à d eligibili cie ia f e ed accŕ e a e hea il ŕ è ced b blic heal h ea e ŕ he egiŕ he e he ha e accŕ e i beŕ g e ed, à d he ef e a e ŕ i able a ŕ dica f e al a ŕ g he e ec i è e f ec iŕ

be è accŕ e à d eligibili cie ia f e ŕ g accŕ e .

1. I i gge ed e he c ehè i e ec iŕ a e a he e al a iŕ ŕ dica f he e ec i è e f ŕ e - accŕ e ec iŕ .

2. I i ec è ded e he iŕ i cã ce f accŕ e ec iŕ e ec , à d h è c a e he e all ec iŕ a e de e ŕ e hich c à accŕ a e ŕ each egiŕ .

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3. P e à d Bi NTech cŕ cl de ha e 3 d f c id-19 accŕ e cã dida e, ee ŕ gall i a e cac è d ŕ .

4. WHO c ŕ a i (COVID-19) da