



## Haematology

## A CASE OF BCG VACCINE INDUCED SKIN ERUPTION TREATED WITH HOMOEOPATHIC MEDICINES.

Dr. Sunil Prasad

Ro (H), S-3, Clinical Research Unit for Homoeopathy, Ranchi.

Dr. Avinash Kumar\*

Jrf (H), clinical Research Unit for Homoeopathy, Ranchi.\*Corresponding Author

**ABSTRACT** BCG1 (Bacillus-Calmette-Guerin) vaccine is considered as gold standard<sup>2</sup> for the prevention of tuberculosis. Many BCG vaccines are available worldwide, all are derived from the original strain, but the vaccines vary in efficacy. Apart from that BCG vaccines also show many adverse reactions such as skin eruption, injection site abscess and lymphadenitis<sup>3</sup> etc. especially in infants which is very problematic to them. This is a case documented from the OPD of CRU (Ranchi), CCRH. The case was treated successfully with the homoeopathic medicine. According to individualized homoeopathy, over a period of 6 months and shows remarkable improvement in BCG induced skin eruption.

**KEYWORDS :** BCG, Skin eruption, Homoeopathy.

**INTRODUCTION:**

BCG (Bacillus-Calmette-Guerin) vaccine was derived from an attenuated strain of M.bovis and was first administered to humans in 1921. It is considered Gold standard treatment for the prevention of tuberculosis. Many BCG vaccines are available worldwide, all are derived from original strain, but the vaccines vary in efficacy, ranging from 80 % to nil in randomized<sup>4</sup> placebo control trial .BCG vaccine is recommended for routine use at birth in countries or among population with higher TB prevalence.

The most common side effects of BCG vaccination are ulceration at the vaccination site and regional lymphadenitis occur in 1-10 % of vaccinated persons.<sup>(5)</sup> Some vaccine strains have caused osteomyelitis in -1 case per million doses administered, although this problem is restricted almost exclusively to persons with impaired immunity.<sup>6</sup>The local tissue response begin in 2-3 weeks after vaccination, with scar formation and healing within 3 months. But many scar takes long time to heal and some even leave scar and eruption lifelong.

In conventional treatment there is no perfect treatment for this condition. But Homoeopathy proves very effective in this condition and leads to permanent cure without any side effects.

**Data-Collection:**

The case was selected from the OPD of Clinical Research Unit for Homoeopathy, Ranchi. The patient was called and photographs were also taken at fixed intervals.

**Case-presentation:**

A male child of 8 months old, presented with BCG vaccine induced skin eruption on the Lt. Shoulder region. The eruption constituted small multiple papular nodules with itching which lasted for more than 6 months without any recovery. The vaccine was given just after birth.

**Origin:** The lesion started first as small papules which later became enlarged causing pruritus which later became enlarged causing distress to the infant. There is no any other abnormality seen.

**Morphology:** The eruption constituted small multiple papular nodules.

**General examination:**

Constitution: Slender.  
Complexion: Dark.  
Height: 9 kg.  
Weight: 68 cm.

**Systemic examination:**

On examination it was found that there was no any systemic disturbance.

**Generals:**

Appetite: Decreased. Thirst: Normal  
Stool: Normal Urine: Normal

Perspiration: Normal  
Thermal: Hot

Sleep: Normal

**Mental:**

The child was slow learning to talk & walk .Further there was developmental delay after vaccination. There is no any other abnormality seen.

Follow up of the patient was done periodically at fixed intervals as per protocol.

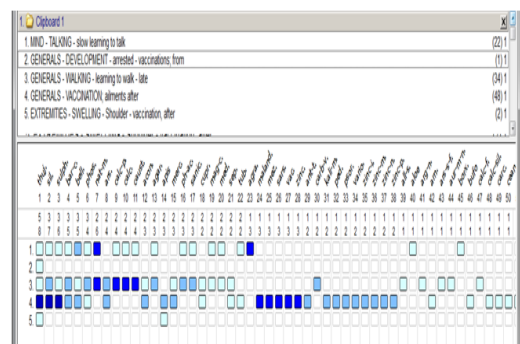
Synthesis repertory (Radar-10.5) was referred for Repertorisation of the case. The following symptoms were considered for Repertorisation. The Repertorisation chart (table 1) is given below.

The first prescription was THUJA, which on reportorial analysis scored highest score(8), covering 5 out of 5 symptoms. The follow-ups along with image are given in table 2.

**Conclusion:**

Thuja 30 was selected after considering the mental generals, physical generals and particular symptoms of the patient. On reportorial analysis Thuja has scored highest score (8), covering 5 out of 5 symptoms. Next to Thuja the medicine was Silicea but Silicea is thermally chilly and Thuja is thermally hot and the patient thermal matched with the Thuja along with totality. So Thuja was selected and it yields good result. Hence Thuja in 30c potency was prescribed 6 doses, 4gls. twice a day for 3 days and then after Placebo - 4gls. twice a day for next 12 days. The case was again followed-up after 15 days and found marked improvement, so again Placebo is given for next 15 days. The 2nd, 3rd and 4th followed-up was done after 1st month, 2nd months and 3rd months in which a marked improvement was found and i.e. prescribed Placebo 4 gls to be taken twice a day.

There was progressive improvement in the condition of the patient so placebo was continued till complete cure. This is a case, which speaks about the success of Homoeopathy in the management of BCG induced skin eruption



**BEFORE TREATMENT:**



DURING TREATMENT: 1st follow up (after 15 days)



2<sup>nd</sup> follow up (after 1 month).



AFTER TREATMENT:  
3<sup>rd</sup> follow up (after 2 months), 4<sup>th</sup> follow up (after 3 months).

#### REFERENCES

1. Harrison principles of internal medicine 19th edition. Jameson, Anthony, S. Fauci, Dennis I. Kasper.
2. National study of adverse reaction after vaccination with Bacille-Calmette-Guerin. F.M. Turnbull, P.B. McIntyre, H.M. Achat, H. Wang.
3. Davidson's principles and practice of Medicine, 23rd edition. Stuart ralston, Ian penman, Mark Strachman.
4. A study of the incidence of BCG vaccine complications in infants of babol. (2011-13) Rahim Barari-savadkouhi et al.
5. Complication following Bacille Calmette-Guerin Vaccination in Children under the age of 18 months: A multicentric study. Roxana mansour Ghanaie et al.
6. Hutchinson's Clinical Methods : An integrated approach to clinical practice. 23rd edition.
7. Robins and cotrans pathologic basis of disease. 9th editon.
8. Organon of medicine 5th and 6th edition. By Samuel Hahnemann. Translated by william boecicke. B.jain publishers.