

# KRASS INDIA

## Case Studies for Herbal Nutritional Supplement for Down's syndrome

**Child Name:** Rakhi

**Location:** Jaipur, India

**Age at Pre-treatment:** 4 years

**Diagnosis:** Down's syndrome (Delayed speech and development)

### **Pretreatment evaluation – Nov 16<sup>th</sup>, 1999**

All milestones usually reached usually in case of a regular child were delayed in case of Rakhi. She was not able to perform her day-to-day activities in form of self-help skills (Brushing, eating, dressing, undressing etc.). No Social help skills had been developed. Her speech was monosyllabic and could not be comprehended clearly. She was able to sit but not able to walk without support. She did not have the capability to grasp things related to preschool performance (body parts, animal recognition etc.) and there was no sign of her performing any extracurricular activities.

A SPECT brain was carried out which indicated hypo-perfusion in all areas of brain. A detailed work plan was also prepared before starting the treatment. (See SPECT image below)

### **Supplementing with herbal nutritional supplement:**

We put her on the Herbal nutritional supplement developed by Krass India, which was administered as per guidelines to her on regular basis. Close monitoring was done to see any adverse reaction to the nutritional supplement. Once she was comfortable with the dose, a training model was developed for her to observe improvements in her regular day-to-day working.

### **Post treatment evaluation (August 18<sup>th</sup>, 2001 – 21 months later)**

After completion of 21 months of supplement, we compared Rakhi's pre-treatment evaluation to current and her parents were very happy with her progress and performance while she was on the herbal Nutritional Supplement. Rakhi could walk, run and play as any regular child. She mixes very well with peer age group children and has developed social help skills. She started helping her mother in housework and her reflex response developed exceptionally well. She is able to do mouth rinsing, hand washing, brushing, bathing, dressing, undressing, and eating all by self without any support. She developed toilet control and bowel control also. She developed normal speech though it is much easier to comprehend than earlier but there is still more improvement required. She recognizes and knows the names of all the body parts, animals, birds,

vegetables, fruits, vehicles, and, general kitchen and household items. She can recognize most major colors like red, green and yellow colors, and regular shapes like circle, triangle and square. She is showing interest in dancing and often dances to tunes she hears around. She has started attending play school, where she mixes well with children. She can pronounce and recognizes alphabets but still has difficulty in writing.

Post treatment SPECT brain indicated significant improvement in perfusion of hypo perfused areas of brain. (Look below for images)

**Pre Treatment**

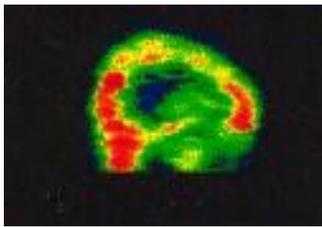
**Post treatment**



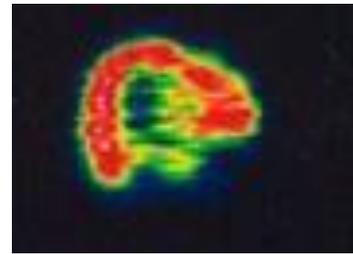
**Rakhi**

Brain SPECT – HMPAO

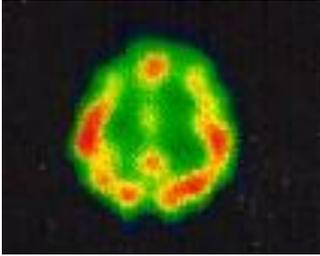
**Pre Treatment  
16-11-1999**



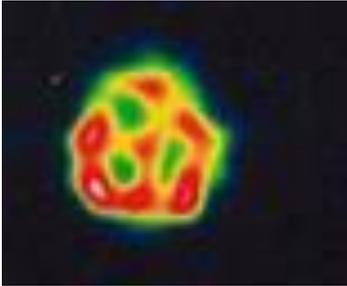
**Post Treatment  
18-08-2001**



**Saggital slice**



Coronal slice



**Krass India**  
**Case Studies for Herbal Nutritional Supplement for Down's syndrome**

**Child Name:** Shalu

**Location:** Kala Pipal, Shajapur, MP

**Age at Pre-treatment:** 3 years

**Diagnosis:** Down's syndrome; 46,XX,22p+ (Delayed speech and Physical development)

**Pretreatment evaluation – Aug 18<sup>th</sup>, 1998**

All milestones usually reached usually in case of a regular child were grossly delayed in case of Shalu. She has not developed motor mile stones except head control and sitting with support. No question arises of developing day-to-day activities in form of self-help skills (Brushing, eating, dressing, undressing etc.). Pincer grasp not developed so far. On examination she was short stature, having nystagmus, CTEV both foot and all signs of Down syndrome. She does not recognizes body parts.

A SPECT brain was and the details were noted.

**Supplementing with herbal nutritional supplement:**

We put her on the Herbal nutritional supplement developed by Krass India, which was administered as per guidelines to her on regular basis. Close monitoring was done to see any adverse reaction to the nutritional supplement. Once she was comfortable with the dose, a training model was developed for her to observe improvements in her regular day-to-day working.

**Post treatment evaluation (Jan 25<sup>th</sup>, 2001 – 30 months later)**

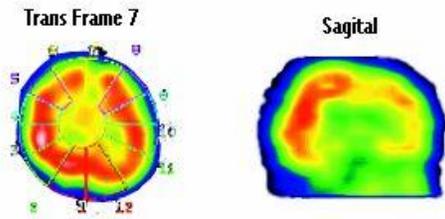
After completion of 30 months of supplement, we compared Shalu pre-treatment evaluation to current and her parents were very happy with her progress and performance while she was on the herbal Nutritional Supplement. Shalu can sit and crawl. She mixes very well with peer age group children and feels pleasure. Her reflex response started developing. She is able to eat, drink water. Tries to do mouth rinsing. She indicates for toilet and latrine. She relishes grooming. She developed monosyllabic speech. She recognizes and knows the names of all the body parts, few animals, birds, vegetables, fruits, vehicles, and, general kitchen and household items. Color and shape recognition have not developed so far.

A followup SPECT scan was performed after completion of three months of treatment. A comparative study of pre and post treatment scans is given below. A significant improvement in cerebral perfusion have been noted.

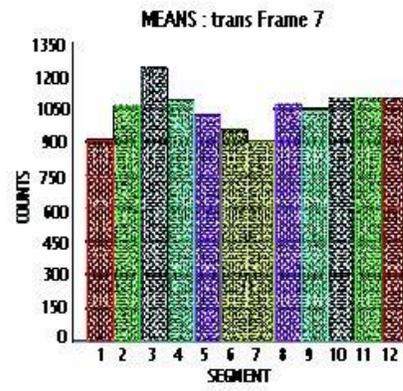
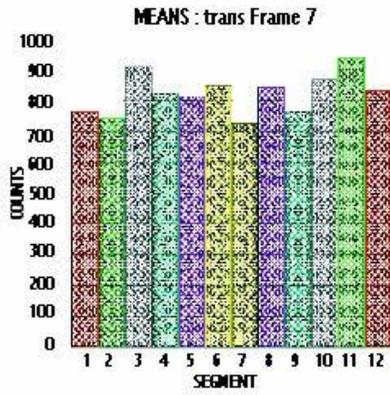
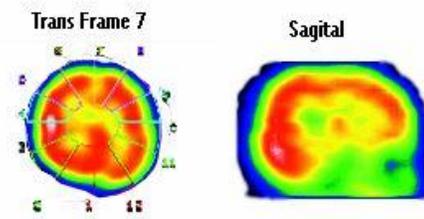
# A COMPARATIVE SPECT OF BRAIN

SHALU

PRE - TREATMENT



POST - TREATMENT (3 MONTHS)



**Child Name:** Shardendu

**Location:** MP

**Age at Pre-treatment:** 15 Years

**Diagnosis:** Down's syndrome; 46,XX,22p+ (Delayed speech and Physical development)

**Pre-treatment**



**Post\_treatment**

