An Overview of Child health screening and early intervention services

Rashtriya Bal Swasthya Karyakram (RBSK)
“From Survival to Healthy Survival”
- **Rashtriya Bal Swasthya Karyakram** is an initiative to improve child Survival & Quality of life.

- Systemic approach to early identification of **4Ds**: Defects at birth, Diseases, Deficiencies and Developmental delays including Disabilities in children 0 to 18 years of age.

- Existing **School health programme under NRHM** is now expanded to include comprehensive screening for all children: Scheme is expected to cover more than 27 crore children in a phased manner.

- This initiative ensures free management and treatment including surgical interventions at tertiary level through NHM.
## Magnitude of 4Ds in India

<table>
<thead>
<tr>
<th>Defects at birth</th>
<th>Diseases</th>
<th>Deficiencies</th>
<th>Developmental delays &amp; disabilities</th>
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<tbody>
<tr>
<td>• Estimated 17 lakh babies are likely to be born with a birth defect</td>
<td>• Dental caries affects 50-60% Indian school children</td>
<td>• Various deficiencies affect 4-70% preschool children</td>
<td>• 10% children are affected with development delays leading to disabilities</td>
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<tr>
<td>• Account for 9.6% of all newborn deaths</td>
<td>• Rheumatic heart disease: estimated to affect 1.5/1000 children</td>
<td>• 70% under five children anaemic, • 43% underweight</td>
<td>• 20% of newborns discharged from SNCUs may have developmental delays</td>
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What’s new in RBSK?

• The program focuses on birth defects which contribute to almost 10% of new born deaths, their identification and quality management based on current scientific evidence at zero cost to the families. This would involve training ASHAs, Medical Officers, Nurses, and Mobile Health Teams including AYUSH doctors.

• Another new area of focus is management of developmental delays and disabilities which affects 10% of children below the age of 6 years through providing a District Early Intervention Centre (DEIC) at each of the districts in the country.
RBSK - Holistic approach, enabling a growing child to reach his cognitive potential: Preparing a child for 21st Century
# 30 health conditions to be screened and managed

## A. Defects at Birth
1. Neural tube defect
2. Down’s Syndrome
3. Cleft Lip & Palate
4. Talipes (club foot)
5. Developmental dysplasia of the hip
6. Congenital cataract
7. Congenital deafness
8. Congenital heart diseases
9. Retinopathy of Prematurity

## B. Deficiencies
10. Anaemia especially Severe anaemia
11. Vitamin A deficiency (Bitot spot)
12. Vitamin D Deficiency (Rickets)
13. Severe Acute Malnutrition
14. Goiter (Iodine Deficiency)

## C. Childhood Diseases
15. Skin conditions (Scabies, fungal infection and Eczema)
16. Otitis Media (Infection in Middle ear)
17. Rheumatic heart disease
18. Reactive airway disease
19. Dental caries
20. Convulsive disorders

## D. Developmental delays and Disabilities
21. Vision Impairment
22. Hearing Impairment
23. Neuro-Motor Impairment

### Developmental delays
24. Motor
25. Cognitive
26. Language
27. Behaviour (Autism)
28. Learning disorder
29. Attention deficit hyperactivity disorder

## 30. Optional (based on epidemiological situation and availability of testing and specialized support)
- Congenital Hypothyroidism, Sickle cell anaemia, Beta thalassemia
Implementation of RBSK

DEIC
(Hub of all activities)

- Confirmatory diagnosis
- Coordination
  - Convergence
  - Identification and establishing service linkages
- Referral
- Management
- Reporting

New born screening at Delivery points

New born screening Asha in HBNC visitation

Children (6 wks to 6 years) screening at Anganwadis twice a year

Children (6 years to 18 years) screening at Government and Government aided schools once a year

System strengthening and sustainability

Tracking

Specialized Care: Public & Private centers

Training and capacity building
District Early Intervention Centre (DEIC)

• An early intervention center is to be established at the District Hospital.

• The primary purpose of early intervention center is to identify developmental delays, their confirmation and quality management.

• The center would provide referral support to children detected with health conditions following health screening.

How

At the district Hospital
As screening, facilitation and management facility

• Confirmation of the referred cases,
• Linkages with appropriate secondary and tertiary facilities within District and/or State,
• Provide management interventions for developmental delay and disability
## Manpower of DEIC under NHM

<table>
<thead>
<tr>
<th>Professionals</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>Paediatrician</td>
<td>One</td>
</tr>
<tr>
<td>Medical Officer</td>
<td>One</td>
</tr>
<tr>
<td>Dentist</td>
<td>One</td>
</tr>
<tr>
<td>Physiotherapist / Occupational therapist / Early Interventionist with Physiotherapy/ Occupational therapy background</td>
<td>One</td>
</tr>
<tr>
<td>Clinical Psychologist/ Rehabilitation Psychologist</td>
<td>One</td>
</tr>
<tr>
<td>Paediatric Optometrist</td>
<td>One</td>
</tr>
<tr>
<td>Paediatric Audiologist &amp; Speech pathologist / Early Interventionist with Paediatric Audiology &amp; Speech pathology background</td>
<td>One</td>
</tr>
<tr>
<td>Special Educator</td>
<td>One</td>
</tr>
<tr>
<td>Lab Technician</td>
<td>Two</td>
</tr>
<tr>
<td>Dental Technician</td>
<td>One</td>
</tr>
<tr>
<td>Manager</td>
<td>One</td>
</tr>
<tr>
<td>Data entry operator</td>
<td>One</td>
</tr>
<tr>
<td>Counsellor (Optional)</td>
<td>One</td>
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</table>
## DEIC Status in Odisha

<table>
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<tr>
<th>Status</th>
<th>Name of the Districts</th>
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<tbody>
<tr>
<td><strong>Functional DEIC</strong></td>
<td>Bhadrak, Jharsuguda, Kalahandi, Kandhamal, Keonjhar, Kendrapada, Koraput, Mayurbhanj, Sundergarh RGH, Rourkela, Sishu Bhawan, Cuttack, Capital Hospital, Bhubaneswar</td>
</tr>
<tr>
<td><strong>Functional DEIC under Process</strong> &lt;br&gt; (To be completed by January-2016)</td>
<td>Bolangir, Ganjam, Balasore, Puri, Sonepur, Bolangir, Raygada, Malkangiri, Nayagarh, Nabarangpur, Nuapada</td>
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<tr>
<td><strong>Expected to be Operationalized by March-2016</strong></td>
<td>Angul, Bargarh, Boudh, Deogarh, Khurda, Jajpur, Gajpati, Jagatsinghpur, Sambalpur, Subarnapur,</td>
</tr>
</tbody>
</table>
Role of Functionaries of School & Mass Education:

A. Screening:

• Block functionaries are requested to participate in the preparation of annual Micro plan of MHT school visit. MHTs to be shared school wise child strength for preparation of Micro plan.

• Joint Micro plan shared to Block level functionaries to be shared with school Head Masters at Block /cluster level meetings.

• During screening days/dates, all enrolled children to be encouraged to attend the school for ensuring screening of all children.
Role of Functionaries of School & Mass Education:

• Space/room for screening may be arranged for screening by the concerned school and children to be arranged properly for smooth screening activity by MHT.

• Prior to visit, Children Identified with defects, deformity or suffering with any health condition may be screened on priority during screening. The list of CWSN may also be shared with MHT for their referral to DEIC.

• HM or any designated teacher of the school may support the MHT staff in conducting screening and arranging awareness session for the children.
Role of Functionaries of School & Mass Education:

B. Management & Follow Up of Identified cases:

• After screening of all children, MHT & School teachers to discuss on the referral of identified children to appropriate health facility.

• School staff will support MHT in the referral of the child. It is the joint responsibility of MHT & School staff for proper referral, treatment and follow up of the identified children.
Role of Functionaries of School & Mass Education:

• Up to complete treatment of the child, the child is to be followed up jointly by the MHT & School functionaries.

• School staff to be in touch of MHT and DEIC for ensuring proper assessment and therapeutic services to the CWSN.

• Support of DEIC may also be sought for conducting therapeutic session for CWSN at block level.
Thank You