Mobility Aids For Children with Cerebral Palsy

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Children with cerebral palsy are often prescribed Mobility & Seating Systems (MSS).

WHY?

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Aims:

- □ to assist in daily activities
- to improve posture and general health
- to prevent muscular-skeletal complication
- □ to prevent aspiration

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The Challenges in District/Rural Malaysia

- □ Not readily available need to be flown/shipped in
- Costly (at least RM4000-8000)
- 38% of Malaysian family has monthly income < RM3000¹
- Adult wheel chairs
- □ Imported systems may not suit the child
- size, child grows, material/weather
- □ Less than 5 between 1998-2004 (150+ children)
- □ Sarawak mix of urban, suburban and rural areas

¹ 2007 Household Income & Facilities Census by the Department of Statistics Malaysia. Retrieved from article by Pauline Puah, Half of Malaysian households earn below RM3,000 a month. The Edge, 10 July 2008.

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MSS Project in Sibu, Sarawak

started with a person
with dedicated and kind heart

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Referral System

LKHMCC receive referral from multi-sources:

- Hospital
- Parents
- School
- NGO (Non Governmental Organization)
- PDK (Pusat Pemulihan Dalam Komuniti)

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Financial Assessment

LKHMCC Nurses (DHO) + ACSNS Staff (NGO)

- 50% by ACSNS Sibu
- 50% by Parent
 - NGO
 - Donor
- *By installment, if necessary
- *Sometime, fully paid by JKM/JPA

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Assessment

- MDT Assessment (Pediatrician/Doctor, PT, Nurses, +/-OT)
- Measurement (PT, Workers from ACSN)
- Dispenser + Fine-adjustment (PT, Workers from ACSN)

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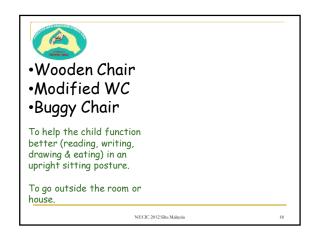






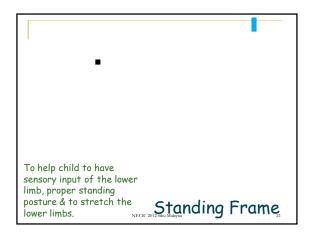




















Use of locally made modified sitting system in district and rural areas of Malaysia

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WONG Ai Yung, WONG See Chang

- Accepted for oral presentation: 3rd International Cerebral Palsy Conference, Sydney February 2009

Use of Locally Made Mobility & Seating Syxtems for Children with Severe Ce District and Rural Areas of Malaysia

Objective: To determine the feasibility of this p families and their children with severe CP.

taminis and their children with severe CF.

Design Audio fredicia notes and parental perception questionnaire.

Settingsi All children who used MSS for at least 3 months between July 2004 and September 2008.

Methods: Rotrospective collection of needical Amongraphic data and costs of MSS contributed by
the parents. A 5-point Parental Perception Questionnaire was used to assess the usefulness of MSS
and parental satiration.

Conclusion: MSS is useful to most children with severe CP and their families and can be p locally at an affordable cost. NECIC 2012 Sibu Malayan

Objective of the Study:

- □ to document the effect of systems on time spent by children sitting up and being out-
- $\ \square$ to determine the usefulness of systems for children and their families
- ullet to assess the feasibility of this partnership program

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Design & Method:

- Retrospective audit
- Used MSS for at least 3 months between July 2004 and September 2008
- 5-point Global Parental Perception Questionnaire

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Sitting Up Time (in a day), n = 73After systems available Before systems available < 4 hrs 4-8 hrs > 8 hrs 11,0% 0 Never 25(51%) < 4 hours 67.1% 18(37%) 6(12%) 7 4-8 hours 13 17.8% 3 0 0 4.1% 8 hours Significant numbers improved in sitting up time (exclude > 8 hours group), NECR, 2012 sibu Malaysa

Bringing Child Outside the House / "Bilik", n = 51 (for BC & MWC only)

Before systems available			After systems available		
			Never / Monthly	1 - 2 x weekly	Daily
Never / Monthly	21	41.2%	9	8	4
1 - 2 × weekly	15	29.4%	2	11	2
Daily	15	29.4%	0	2	13

Significant numbers improved being outdoor (exclude Daily group), p < 0.001, Fisher Exact test

p = 0.031. Fisher Exact test

