Adolescent girl's Initiative - Kishori Shakti Yojana

Dr. Patil S.N, Dr. Wadke R.A, Ms. Ashwini Chavan, Ms. Snehal D.K

Title:

An Epidemiological Study to assess the effectiveness of Multidimensional Health Care Interventions and Nutritional supplementations on physical, psychological, intellectual & social status of adolescent girls in rural area of Konkan.

Need for the Study:

Indian ContestVICT's Walawalkar Hospital

- In absolute numbers, India is home to more adolescents around 243 million than any other country. It is followed by China, with around 200 million adolescents.
- Nearly 50 per cent of adolescent girls aged 15–19 in India are underweight, with a body mass index of less than 18.5.
- Bangladesh India and Nigeria alone account for one in every three of the world's adolescent borths.
- In India, less than 30 per cent of mothers under 20 years old in the poorest households are assisted during delivery by a skilled birth attendant, compared to 90 per cent of young mothers in the richest households.
- Young women in the poorest households are seven times more likely to give birth before age 18 than young women from the richest households in India.

South Asian context

- Nearly 90 per cent of the world's 127 million illiterate youth live in South Asia (65 million) and sub-Saharan Africa (47 million).
- Some 71 million children of lower secondary school age worldwide are not in school and 127 million youth between 15 and 24 are illiterate – the vast majority in South Asia and sub-Saharan Africa.

Global Context

- Some 1.2 billion adolescents (10–19 years old) today make up 18 per cent of the world's population. More than half of all adolescents live in Asia.
- Each year 1.4 million adolescents die from road traffic injuries, childbirth complications, suicide, AIDS, violence and other causes.
- Some 75 million young people between the ages of 15 and 24 are unemployed.
- A report identifies sub-Saharan Africa as the most challenging place for an adolescent to live and it is projected to have the greatest number of adolescents in the world by 2050.
- This report says that over a third of women aged 20 to 24 in developing countries
 excluding China were married or in a union by the age of 18 with about one third of
 these being married by age 15
- Globally, each year around 16 million girls aged 15–19 give birth, accounting for around 11 per cent of all births.
- In 21 developing countries where enough data is available to assess the situation, more than one third of all girls aged 15 to 19 suffer from anaemia.
- An estimated 2.2 million addlescents are living with HIV around 60 per cent of whom are girls.

Note: Source for above statistics is: U NICEF document titled Progress for Children – A Report Card on Adolescents.

Challenges Faced by Girl Child from Before Birth to Adolescent:

Years Problem faced								
Before Birth to 1 year	Foeticide and Infanticide							
757.3	Infant mortality							
	Discrimination in breast feeding and infant food							
	Neglect of health (immunization)							
1 to 11 years (this	Discrimination in access to food and health care							
includes specific	Malnutrition and anemia							
problems faced by	Health problems like Polio and diarrhea							
age groups 1-5	Iodine and Vitamin A and Micro nutrient deficiency							
years and 6-11	Low school enrolment and School drop outs							
years)	Vulnerable to trafficking, child labour, child marriage							

	Abuse, exploitation and violence
	Domestic chores
	Looking after siblings
	Restriction on mobility and play
	• • •
	Discrimination in overall treatment and parental care
11 to 18 years	Poor health
(Adolescents)	Low literacy level
	Restriction on mobility and play
SVJCI	 Frequent illness due to Malnutrition, Aneamia and micronutrient deficiency Child Marriage
	Early Child bearing morbidity and mortality
	Poor access/ Denial to information and services
1949	Early and frequent pregnancy coupled with abortions
	Marital and domestic violence
	• Dovry Harassment, desertion, polygamy, divorce
1	Child labour, trafficking.
1	• STDs and HIV/AIDs
1 1	Heavy comestic work including commuting long distances to
1	
V	collect fire wood/ drinking water.
Y	Unpaid and unrecognized work, and drudgery.
1	No voice either in Home or society.

Note: Source for above statistics is: Working Group on Development of Children for the Eleventh Five Year Plan (2007-2012) - A Report

Project Goals:

a. **Vision Statement:** Physical , psychological, intellectual & social empowerment of adolescent girls i.e. Multifaceted and Multidimensional Overall Development of Adolescent Girls

b. Aim:

To ensure rights of adolescents to holistic health care through model on 'Kishori Shakti Yojana' in communities with active participation of community, local and govt. institutions.

c. Objectives:

- To conduct baseline survey of adolescent girls to assess their health, psychological and social status.
- ❖ To find out the net macronutrient defeciency by 24 hrs dietary recall method in adolescent girls and accordingly device nutritional counselling for them.
- To assess the effectiveness of nutritional supplementation (Laddos and Medicines) on Anthropometric Parameters.
- To assess the effectiveness of psychological and social interventions on psychological, intellectual & social status of adolescent girls.
- ❖ Advocacy Communication and Social Mobilization (A.C.S.M) and capacity development activities for Adolescent Girls and important stakeholders.
- ❖ To arrange residential camps for overall development of Adolescent girls.
- ❖ To form groups of adolescent girls- 'Balika Mandals' / micro SHGs for imparting vocational training and income generation activities for Adolescent Girls (pivotal point for further intervention)
- ❖ To establish 24x7 herp-line' and Psychology O.P.D for adolescent girls.

Research Methodology:

Phased Approach till the specified Project goal is achieved.

Phase I: Survey of adolescent girls and assessment of BMI, Hb, nutrition, health and social status in schools & community.

Phase II: Arranging Health Check-up camps for adolescent girls at community and hospital level and establishment of referral services.

Phase III: Provision of nutritious food to beneficiaries and establishing periodic nutritional surveillance protocol. Each group is given ladoos for 6 months and medicines for 3 months.

Phase IV: Field and hospital based 1 day workshops & 10 days residential camp for overall personality development.

Phase V: Developing training modules and I.E.C material.

Phase VI: Establishment of 24 by 7 helpline for adolescent girls.

Phase VII: Establishment of Psychology OPD and Counseling Services at hospital level for adolescent girls and conducting Psychological testing like I.Q., E.Q., personality test, carrier guidance and counseling for adolescent girls.

Phase VIII: Formation of Micro Self Help Groups/ Balika Mandal and imparting Vocational training to them.

SVICT's Walawalkar Hospital

Phase IX: Research and Publication of research findings in National and International journals.

Note: 1. Some of theresearch phases may be running simultaneously.

2. Ladoos Means Special Nutritional Balls (Nutritional Supplements)

Sample Size: 7

Research Milestones, Tasks and Deliverables:

Research Milestones	Tasks /	Deliverables							
Survey of adolescent	1. Finding out eligible	1. Beneficiaries and Target							
girls and assessment of	population from Census	area defined.							
health, nutrition and	Data.	2. Health, Nutritional and							
social status	 Conducting survey in target area for confirming eligible group. Anthropometric study, hours dietary recall, social interview in order to assess health, nutritional and social status 	social status known. 3. Operational feasibility of project studied.							
Arranging Health	1. Health Check-up camp	1. Baseline BMI and Hb status							
Check-up camps for	would involve basic	known.							

adolescent girls at	anthropometry, BMI	2.	Health check-up camp					
community and hospital	status, Hb status.		repeated after 3 months and					
level and establishment	2. Complete screening for		6 months.					
of referral services.	common adolescent	3.	Effectiveness of interventions					
	problems		found out.					
	3. Referral services for	4.	Specialized care given to					
	adolescents requiring		adolescents needing referral					
	specialized care		services.					
Provision of nutritious	1. Based on nutritional	1.	Supplementary feeds					
food to beneficiaries	needs, formulation of	F	now available based on local					
and establishing	feeds decided by expert		needs and scientific research.					
periodic nutritional	nutritionist.	2.	Nutritional Medicines					
surveillance protocol.	2. Nutritional Medicines	7.	started for 3 months based					
r.v.	giv <mark>e</mark> n for 3 months		on health check-up findings.					
	3. Supplementary feeds	3.	Supplementary Feeds					
	(ladoos) given for 6		Ladoos started for eligible					
	months.		group.					
Field and Hospital	1. Arranging field based	1.	1 day workshop two					
Based 1 day workshop	and hospital based 1 day	1	times in the month.					
Y	worksh <mark>o</mark> p	2.	Capacity building of					
1/2			adolescent girls					
			Mark Control					
Hospital based 10 days	1. Arrangin <mark>g hospital 1997</mark>	3.	10 days residential camp					
residential camps.	based 10 days residential		(quarterly base).					
	camps.	4.	Overall vocational					
	2. Providing free health		training and empowerment					
	check up and medicines.		of adolescent girls.					
	3. Assessment by	5.	Motivation for formation					
	Gynecologist and		of Micro-SHGs and Balika					
	specialist doctors.		Mandal in the future.					
	4. Capacity building	6.	Motivation for becoming					
	workshops:		pivotal point in their own					
	a. First Aid training		villages for arranging health					
	a. Thorna danning		vinages for arranging meantif					

	b. Gardening skills	services / advocacy and
	c. Motivational movies	mobilization of villagers for
	d. Vocational training	availing health care facilities.
	e. Soft Skills	C
	f. Sports	
	i. Sports	
Developing training	1. Preparation of training	1. Fixed training protocols for
modules and I.E.C	material for adolescents.	adolescent would be
material.	2. Pretesting of training	formulated.
SVICT	material and par	2. IEC material would be
0,101	3. Pretesting of IEC	prepared and disseminated.
	material	3. Training workshops would
	4. Preparation of TOT	be arranged for Anganwadi
	(Training of Trainers)	workers, government
	module.	functionaries and T.O.T
		would be conducted
Establishment of 24 by	1. Dual SM Android	1. Implementation of 24 by 7
7 helpline for	Mobile purchased.	help-line services.
adolescent girls.	2. Fixed Mobile Number	. Mobilization of clients in need of
	allotted for 24 by 7	counseling for availing
A	telepko <mark>ni</mark> c help line	Psychology O.P.D Services at
1/3	services.	hospital level.
.,	3. Help line managed by	
4	trained psy <mark>chologist.</mark>	ina lives
/	4. Helpline number	
17.1	publicly announced in	ne at a time!
	various media for wide-	
	spread awareness	
	regarding help-line	
	services.	
8. Establishment of	Psychological testing	1. Screening of adolescent for
Psychology OPD and	including	psychological problems.
Counseling Services at	I.Q.,E.Q.,personality test	2. Counseling and prevention of
hospital level for	2. Counseling services.	depression and neurosis in

adolescent girls	3. Carrier guidance		adolescents.
	services.	3.	Aptitude of adolescents
			found out and carrier
			guidance done accordingly.
9. Formation of Micro	1. Motivation of	1.	Balika Mandal formed at
Self Help Groups/ Balika	adolescents for forming		village level.
Mandal	Balika Mandals	2.	Income generation activities
	2. Formation of Balika		started in Balika Mandal.
	Mandal consisting of 10	3.	Balika Mandal become
SVICI	to 15 girls	ŀ	pivotal point for
J	3. Vocational training	-	implementation of health
	imparted to Balika	4	services at village level.
	Mandal	4.	Balika Mandal used for
	. ()	1	A.C.S.M activities at field
			level.
10. Research and	1 Creation of data base of	1.	Data Base would be
Publication	beneficiaries		created in EPI Info software.
V	2. Data analysis using	2.	Data Analysis would b
4 1	statistical packages		done by SPSS statistical
	3. Submission of papers	×.	software.
Y	for publication	3.	Published Research
1/2			papers would help in further
		ept.	advocacy and development of
*	Transform	111	model.
11. Project Evaluation	1. Project Evaluation		1. Output, outcome and
and Impact Assessment.	planned in 2015 based on	IF	Impact of AGI project would
	systems approach.		be known.
			2. A role model of
			programme if successful
			would be prepared for
			implementation in other
			places.
L	<u> </u>	l	

Analysis and Findings (As of 1st October 2012)

A.1. Age Statistics

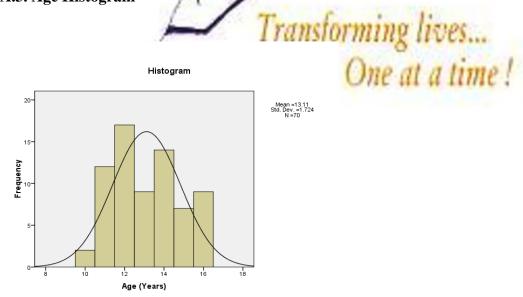
The age group covered in the study was from 10 to 16 years and the median age was found to be 13 years.

Minimum Age	10 years
Maximum Age	16 years
Mean	13.11 years
Median	13 years
Total Sample Size	lkar Hospital

A.2. Age Distribution

Age	Fequency	Percentage
10 years	2	2.9
11 years	12	17.1
12 years	VAY A	24.3
13 years	9	12.9
14 years	14	20.0
15 years	7	10.0
16 years	9	12.9
Total	7	100

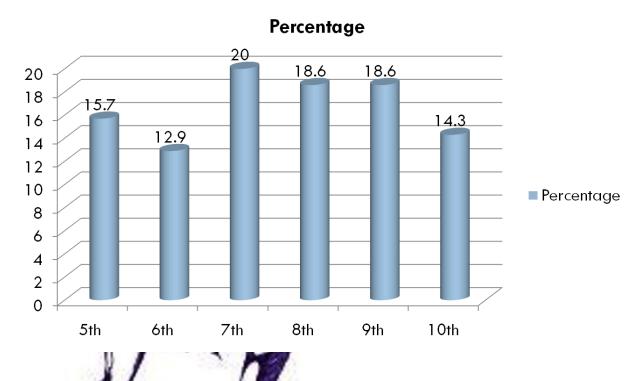
A.3. Age Histogram



Mean =13.11 Std. Dev. =1.724 N =70

B. Current Education

Adolescent girls from 5th (10 years of age) to 10th (16 years of age) were covered in the study. These adolescents were from ZP Schools. The age group of more than 16 years i.e. Junior college was not included in the study keeping in mind the operational feasibility.



C.1. Base Line and Post Intervention Haemoglobin Status:

65.7 % of Adolescent Girls are Anaemic i.e. having Hb less than 11 gm% in June while after 3 months of intervention (Medicines+ Ladoos+ Health Education) the prevellance of anaemia reduced to 32.9% which was statistically significant.

Hb Status gm%	June (Freq)	June (%)	Aug (Freq)	Aug (%)
< 11 gm%	46	65.7	23	32.9%
(Anaemic)	A	On	e at a time!	¥
11 to 12 gm%	20	28.6	28	40%
>12 gm%	4	5.7	19	27.1%
Total	70	100	70	100

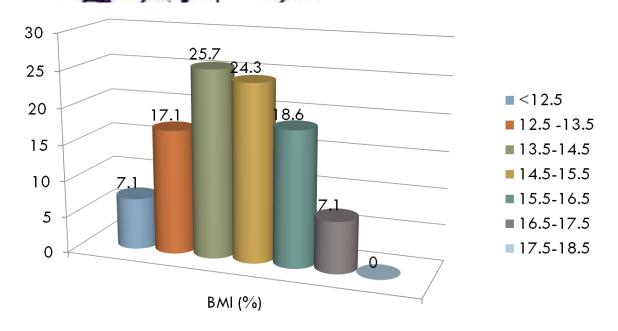
D.1 Weight gain/ loss after 3 months of nutritional interventions (Medicines + Laddo+ Health Education)

61.5% of adolescent girls have weight gain at the end of 3 months.

Weight change	Frequency	Percentage
Weight loss	12	17.1
No Change	15	21.4
Upto 1 kg weight gain	18	25.7
1 to 2 kg weight gain	16	22.9
2 to 4 kg weight gain	4	5.7
>3 kg weight gain	Walawalkar Ho	svital
Total	70	100%

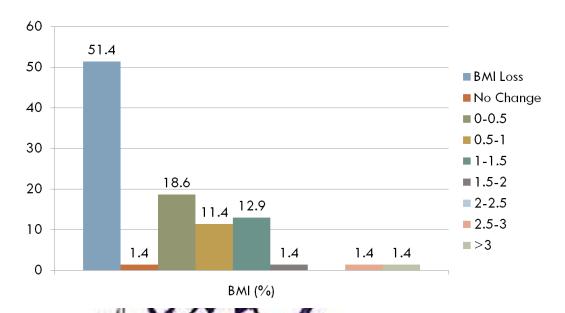
E.1 Baseline Body Mass Linex (B.M.1) Status

100 % of Adolescent Girls selected for the study were underweight having BMI<18.5



E.2 BMI Status after 3 months of nutritional interventions (Medicines + Laddo+Health Education)

53% of Adolescent girls had BMI loss or no change in status while 47% had improvement in their BMI Status.



F.1 Baseline 24 hours dietary recall in adolescent girls (Reference values National Institute of Nutrition Hyderabad)

In the baseline study Net energy defeciency of 1098.5 kcal/day, net carbohydrate defeciency of 233.4gms/day, and protein defeciency of 23.8gms/day and fat defeciency of 5.7 gms/day was found, these defeciency decreased in post intervention dietary recall due to nutritional counselling and change in dietary habits. Protein and fat defeciencies decreaed significantly.

-/	Net Energy Deficiet Kcal per day	Net Carbohydrate Defecit gms per	Net Protein defecit gms per day	Net fat defecit gms per day
		day		
Base Line	-1098.5	-233.4 gms/day	-23.8 gms/day	-5.7 gms/day
(All 70 cases)	kcal/day			
Post Intervention (All	-991.7	-231 gms/day	-7.6 gms/day	+3.1 gms/day
70 cases)	kcal/day			
Post Intervention (Only	-991.7	-231 gms/day	-20.3 gms/day	-3.2 gms/day
defecient cases)	kcal/day			

F.2 Reference Values of RDA (Recommended Dietary Allownace – NIH Hyderabad)

Group	Particulars	Body wt	Net Energy	Protein	Fat	Calcium	Iron	Vit.	A.μg/d	Thiamin	Riboflavin	Nicotinin Acid	Pyridoxin	Ascorbic Acid	Folic Acid	Vit B-12
		Kg	Kcal/d	g/d	g/d	mg/d	mg/d	Retinol	B-Carotene	mg/d	mg/d	mg/d	mg/d	mg/d	μg/d	μg/d
Man	SedentaryWork		2425						2	1.2	1.4	16				6)
ividi.	ModerateWork	60	2875	60	20	400	28	600	2400	1.4	1.6	18	20	40	100	1
	Heavy Work		3800							1.6	1.9	21				
Woman	SedentaryWork		1875							.0.9	1.1	12				
	ModerateWork	50	2225	50	20	400	30	600	2400	1.1	1.3	14	20	40	100	1
	Heavy Work		2925	6						1.2	1.5	16				
	PregnantWoman	50	300	15	30	1000	38	600	2400	0.2	0.2	2	2.5	40	400	1
	Lactation	7	5													
	0-6 Months	50	550	25	45	1000	30	950	3800	0.3	0.3	4	2.5	80	150	1.5
	6-12 Months	50	400	18	45	1000	30	950	3800	0.2	0.2	3	2.5	80	150	1.5
Infants	0-6 Months	5.4	108/kg	2.05/kg		500		, ,,,		55µg/kg	65µg/kg	700μg/kg	0.1	25	25	0.2
TINION CO.	6-12 Months	8.6	98/kg	1.65/kg		500		350	1200	50μg/kg	60μg/kg	650µg/kg	0.4	25	25	0.2
Children	1-3 Years	12.2	1240	22			12	400	1600	0.6	0.7	8	0.9		30	
	4-6 Years	19	1690	30	25	400	18	400	1600	0.9	1	11	0.9	40	40	0.2-1.0
	7-9 Years	26.9	1950	41			26	600	2400	1	1.2	13	1.6		60	
Boys	10-12 Years	35.4	2190	54	22	600	34	600	2400	1.1	1.3	15	1.6	40	70	0.2-1.0
Girls	10-12 Years	31.5	1970	57	22	600	19	600	2400	1	1.2	13	1.6	40	70	0.2-1.0
Boys	13-15 Years	47.8	2450	70	22	600	41	600	2400	1.2	1.5	16	2	40	100	0.2-1.0
Girls	13-15 Years	46.7	2060	65	22	600	28	600	2400	1	1.2	14	2	40	100	0.2-1.0
Boys	16-18 Years	57.1	2640	78	22	600	50	600	2400	1.3	1.6	17	2	40	100	0.2-1.0
Girls	16-18 Years	49.9	2060	63	22	600	30	600	2400	1	1.2	14	2	40	100	0.2-1.0

G.1: Change in Anthropometric Parameters at the end of 3 months

Paired t test was applied for finding out statistical significance. It was found that weight gain and height gain were statistically highly significant at the end of 3 months (P<0.001) while BMI gain was not statistically significant.

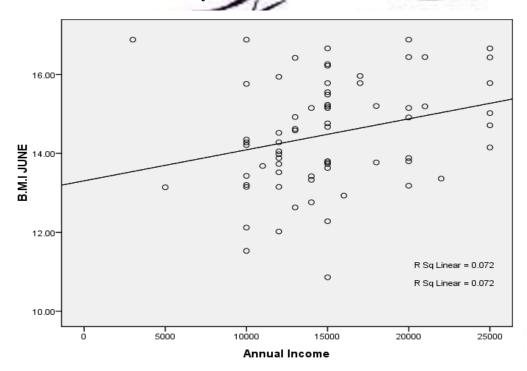
1		Mean	Sample Size	Std. Deviation	Std. Error Mean
BMI Gain	B.M.I Aug (Sig = 0.293)	14.6093	70	1.56932	.18757
	B.M.I JUNE	14.4880	39orming	1.38845	.16595
Weight Gain	Aug Wt (Kg.) (Sig = 0.001)	30.37	70 One	5.585	.668
	June Wt (Kg.)	29.27	70	5.464	.653
Height Gain	Aug Ht (mts.) (Sig = 0.001)	143.46	70	7.822	.935
	June Ht (mts.)	141.61	70	7.941	.949

H.1: Coorelation between Body Mass Index and Annual Income

A positive coorelation was found between Body Mass Index and Annual Income i.e. More the annual income, more the Body Mass Index.

		Annual	B.M.I	
		Income	JUNE	
Annual Income	Pearson	1	.268*	
	Correlation	1	.208	
	Sig. (2-tailed)		.025	
*. Correlation is sig	N niffeant at the 0.05 le	70 evel (2-tailed).	r Hos	pital

H.2: Coorelation between Body Mass Index and Annual Income



I.1: Baseline and Post Intervention Psychological Status (Note: N=56 as only girls more than or equal to 12 years are considered for psychological test)

50% of adolescent girls had optimistic attitute before intervention which increased to 80.3 % post intervention. Similarly pessimistic and neutral attitude decreased post intervention which shows the effectiveness of counselling in adolescent age group.

Attitude	Baseline Freq	Baseline %	Post Intervention	Post
			Freq	Intervention %
+ Pessimistic	0	0%	1	1.7%
Pessimistic	6	10.8%	3	5.4%
Neutral	22	39.2	7	12.5%
Optimistic	23	41	19	33.9%
+ Optimistic	5	8.9	26	46.4%
Total	56	100%	56	100%

I.2 Self Perception regarding health (Health Barometer)

Only 24 % of adolescents perceived their health as good in the baseline survey while this percentage increased to 61% after intervention.

Crit	eria	Pr	%	Post	%
0-<2	Poor	13	18.57	0	0
2- < 4	Average		57.14	27	38.57
4-5	Good		24.28	43	61.42

I.3 Preintervention knowledge regarding reproductive health and body mass index.

38.6 % of adolescent girls already have good knowledge regarding reproductive health while 87.2 % have poor knowledge regarding body mass index and importance of weight and height. Knowledge regarding reproductive health and body mass index improved after interventions.



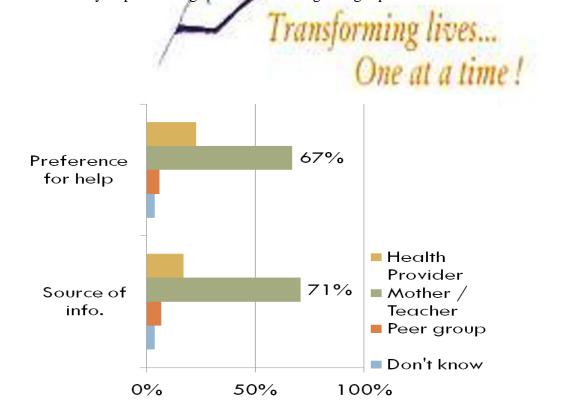
Criteria	Pre Poor	Pre Avg	Pre	Post	Post	Post
			Good	Poor	Avg	Good
Knowledge	61	4	5	19	32	19
regarding	(87.2%)	(5.7%)	(7.1%)	(27.1%)	(45.8%)	(27.1%)
Physical						
Growth						
Knowledge	14	29	27	0	14	56
regarding	(20%)	(41.4%)	(38.6%)	(0%)	(20%)	(80%)
Reproductive						
Health						

I4. Knowledge about characteristics indicating puberty

	Pre	Post
Don't know at all	9 (12.85%)	0
Girls know at least 2 characteristics	4 (5.7%)	0
Girls know 3to 5 characteristics	24 (34.28%)	10 (14.28%)
Girls know all characteristics	31 (44.28%)	60 (85.71%)
Don't know about menstrual cycle	6 (8.5%)	0

I.5 Source of information regarding reproductive health and preference for help in case of reproductive problems

71% of adolescent girls gain their reproductive health information from mothers and teachers while 67% prefer their mothers help in case of reproductive health problems. 73% of adolescents think it is very important to gain information regarding reproductive health.



I.6: Preferential source for gaining general information used by rural adolescents

Criteria	Preference						
Criteria	1st	2nd	3rd	4th			
Auto-biographies	4	1	1	1			
Story books	17	3	4	0			
Newspaper	18	17	3	0			
T.V.	12	18	1	1			
Magazines	0	2	1	0			
No Response	20	kar He	ospital	244			

I.9: Perception regarding appropriate age for marriage and decision making regarding marriage:

Majority of adolescents (59%) feel that the right age for getting married is 21 to 25 years while 33% prefer early marriage between 18 to 20 years. 56% of the adolescents also feel that the decision for suitable partner should be with their parents and self. While 30% feel that only their parents should take the decision.

I.8: Receptiveness for a 24X7 adolescent help line:

78% of the adolescents were positively receptive regarding an adolescent help line (A phone service where they could call the counsellor in case of any distress and get telephonic counselling) only 22% of adolescents did not like the idea and were not receptive.

Recommendations



- 1. According to the study adolescent age group has high physical, psychological and social morbidity. The need of the hour is to develop a holistic health care model especially for adolescent age group. This model can then be scaled up to cover all districts with government participation.
- 2. Developing a PPP (Public private partnership) with government for Kishori Shakti Yojana is vital, Kishori Shakti Yojana should be implemented in all districts of Maharashtra and local NGO's should play a vital role in its implementation. Capcity building of all government staff can be done by technically qualified NGO's.

- 3. Malnutrition, Anaemia, Reproductive Health problems and Psychological problems are the main health problems encountered in the study, the public health approach used for intervention can be health education, check-up and referral services. Medicines (iron, folic acid, calcium, vitamins and deworming) should be given for atleast 3 months and nutritional supplements like ladoos or locally available nutritious food can be given under supervision for 3 to 6 months.
- 4. Awareness generation with the help of one day workshops and 10 day residential camps is a vital component, topics like physical and psychological changes, diet and nutrition, reproductive health, soft skills, counselling etc should be covered in these workshops.
- 5. In order to make these adolescent economically productive formation of micro-SHG's and imparting vocation training to the adolescents is important. Skills like gardening, paper bag making, first aid, artifical jewellary etc should be taught to these adolescents.
- 6. Speical initiative for ensuring gender equality should be started at community level for which the role of a social activist is of vital importance as the study indicates that almost 75% of adolescent girls interviewed faced some sort of gender discrimination either at home or in the community.
- 7. A 24 by 7 telephonic helpline can be started for the adolescent girls where telephonic consultation and advice can be taken in times of distress. A full time counsellor is needed for the same. A special psychology OPD can be established at hospital level to address the counselling and other needs of adolescents.

Transforming lives...
One at a time!

Annexure 1: B.K.L WALAWALKAR HOSPITAL DIAGNOSTIC AND RESEARCH CENTRE ADOLESCENT GIRLS EMPOWERNMENT PROJECT

NAME		ADDRES	SS
SCHO	OL	-CLASS-	AGE
DATE-	HEIGHT	WEIGH	TB.M.I
GENERAL SYMPTOMS	Poor posture	EYES SKIN END	Lice Dandruff Hair falling White patches Rough skin Itching Boils, pimples, warts Nails: Pallor/ Clubbing Unable to read black board, charts Watery eyes Inflamed eye Swollen eye lids Styes or crushed lids Hold book too close or too far Dislike for eye tasks Dark circles around eyes Hearing Loss
FOOD HABITS	Under eating Over eating Diet: Veg/ Non Veg Diet Chart: Req/ Not Req	EARS	Inattentive Turns head to listen Ear ache Discharge from ear Wax in ear
F0(

	Nervous habits- nail biting,			
EMOTIONAL	etc Day dreamer Excessively noisy Overly aggressive Irritable Excessive blinking Withdrawal from group Seems rejected by group Seems depressed Timid Gets accident frequently Excessive use of toilet Hesitation in speech	alawa	TEETH NOSE THROAT	Frequent sore throat or cold Coughing
SPEECH	Stammering	1		Vision test: R
	Health problem identified 1. 2. 3.	Trans	OTHER OTHER	other Other ming lives one at a time!
Investi	igation: HbOthers Re	equired		FIRE III II ALITEC I
		-	CINIC	D/A
K/S:	C.V.S	• • • • • • • • • • • • • • • • • • • •	.CNS.	
Treatn	ment Given/Required:	•••••	•••••	
Exami	ned by whom:	Refe	rred D	Dept: Follow up date:
रक्त तपास	ाण्यासाठी संमती आहे . (स्वतः / अंगणवाडी	सेविका)		अंगणवाडी सेविका ३

Annexure 2:

20

Adolescent girl's Initiative: Kishori Shakti Yojana

SOCIAL INTERVIEW

Name :	•••••	• • • • • • • • • • • • • • • • • • • •		Age:
Address:				
Phone No.		•••••	Date of Birth:	•••••
Education	:	••••	Current Educational St	atus:
Hobby/ Pe	ersonal Interest:		Sports Activity:	
No. of Fan	nily <mark>Members:</mark>	Walan	Gravida:	tal
Annual In	come: 11 1	waiau	BPL/ Non BPL :	ıaı
Type of H	ouse: Kaccha / Pa	nkka	Гоilet:	
Participat	ion of cultural prograr	n: Yes:N	o: which type :	
No. Of Fri	iends:		2	
General A	wareness			
Updated N	News / Knowledge: Bo	oks:/Ma	gzines:/ News Paper:	/
	/ Internet :/		••••	
Usage of E	E <mark>ssential Services :</mark> Hos	pital :/ B	ank :/ Post :/A	uto/ Vehicle :
Family Hi	story:	111	34	
No.	Relation	Age	Education	Occupation
1.				
2.	3 V.			
3.				
4.			2.9.	
	1	/ T	f 1.	
		1 100	43 C T. Condang a 33 CY (1 27 L/2)	

Knowledge Practice & Attitude

Physical / Diet

BMI and Hemoglobin

Do you know what 'BMI' means?

1. Don't know

2. Proportion of weight to height

ne at a time!

- What is the range of normal BMI?
 - 1. Don't know
- 2. 18 to 24
- 3. 15 to 17
- 4. 20 to 25
- According to you which factors have an effect on BMI?
 - 1. Exercise
- 2. Balanced diet food
- 3. Both 1. & 2.

- 4. Don't know
- According to you which factors have an effect on Hb?

1. Iron rich food

2. Intake of Vitamin 'c'

Don't know

What do you eat in daily meal?

Chapati Barley Bhakari Rice Bhakari Rice
Dal Vegetable Green vegetable Sprouts

Chatani Pickle

• What do you eat in dinner daily?

Chapati Barley Bhakari Rice Bhakari Rice Dal Vegetable Green vegetable Sprouts

Chatani Pickle

- Non-veg?
 - 1. Once in a week 2. Twice in a week 3. More than twice in a week
- Do you eat fruits regularly?
 - 1. Yes 2. No
- 2. No 3. As per availability

Personal hygiene practice

- What kind of toilet facility does your household have?
 - . Modern toilet 2. Pit la
 - . Pit latrine 3. Open latrine
 - 4. No facility / bush / field
- Dental Care
 - 1. Good
- 2. Average

- 3. Poor
- From 0 to 5 on scale, please indicate how good or bad your own health is today? (Barometer)



Health education

- Do you know when 'Puberty' takes place in girls?
 9 to 13
 12 to 14
 11 to 16
- What characteristics indicate that girl has reached her puberty? (mark all that apply)

Pimples on face Hair grows under arms & in genital area

Gets curvy shape Breasts starts to develop

Has menstruation every month Attraction to boys

Likes to dress up

• Where do you get information?

Don't know Mother Gynaecologist/doctor Friend Elder sister Grand parents Other relatives Nurse

	Teachers Telephone	Books	Training co	urse
	(help line)	Other		
•	If you had a represent for help? (Multip		nstrual cycle) problem (or question, where would you go
	Don't know Grand parents Books How important is	Mother Other relatives Pee Training course	Gynocologist/doctor Er Educator Nur Telephone (help ling) reproductive health to y	se Teachers ne) Other
·	Very less			important
•		what is an ideal age t 2. 21-25 ye	o get married? ears 3. 26-30 ye	ars 1 4. After 35 years
•	At what age wou	ıld you wish to get m	narried?	
	1. 18-20 years	2. 21-25 ye		ars 4. After 30 years
Do	reanglity Dayalar	pment / decision ma	king	
•			er? (multiple choice wi	th preference level)
	1. Auto-biogra		Story books	3. News Paper
	4. T. V.		Magazines.	6. Other
•	In your opin on	who takes decision	egarding marriage of a	dolescent girls in the family?
	1. Mother, Fath		2. Mother	3. Father
	,			e. I willer
	4. Self		5. Other relatives	
•				ge of adolescent girls in the family?
	2. Mother, Fath	er & herself	2. Mother	3. Father
	4. Self	K	5. Other relatives	
Ps	ychological/ Socia Here are few thir		girls only because of t	hey are girls.
	- Equal rest, tin	me to play and adequ	uate nutrition.	d a time !
	-	to school / take up h	1 17747 (i a time:
	=	olay sports late in the	_	
	•	• •	· ·	in home school and neighborhood

- Freedom to move and speak / express your views freely in home, school and neighborhood.
- Safety & security inside and outside the home
- Which of the following you experience only because of you are girls?
 - Equal rest, time to play and adequate nutrition.
 - Chance to go to school / take up higher studies
 - Freedom to play sports late in the evening
 - Freedom to move and speak / express your views freely in home, school and neighborhood.
 - Safety & security inside and outside the home

- Which of the following things you expect from your surroundings.
 - Equal rest, time to play and adequate nutrition.
 - Chance to go to school / take up higher studies
 - Freedom to play sports late in the evening
 - Freedom to move and speak / express your views freely in home, school and neighborhood.
 - Safety & security inside and outside the home
- Here are few things that are denied to boys only because of they are boys.
 - Boys cannot work inside the house even if they wish to help
 - They are not allowed to cry or express their feelings/ emotions.
- Have you ever heard about help-line for children?
 1. Yes
 2. No
- If such information given to you, would you like to receive help from it.
 - 1. Yes 2. No

Knowledge of AG's parents

- Do you know about need of AGs?
 - 1. Yes
- 2. No
- Arrange as per priority, what are the needs of adolescent girls.
 - 1. They should get information on reproductive health.
 - 2. Equal opportunities to girls and boys in home, school and society.
 - 3. Knowledge about nutritional needs
 - 4. Personal hygiene & sanitation
- In your opinion who should give this knowledge to adolescent girls (preference level)
 - 1. Mother

2. Father

3. Both parents

4. Teacher

- 5. Any female Grand parent 6. Elder sister
- 7. Any other female relative

Annexure 3: Job Responsibilities:

- 1. **Medical Director**: Dr. Suvarna Patil Overall In charge of Project
- 2. Community Health Physician: Dr. Rishikesh A. Wadke
 - a. Project Planning.
 - b. Supervision and Monitoring.
 - c. Reporting Internal and External.
 - d. Budgeting.
 - e. Human Resource Management
 - f. ACSM activities.
 - g. Research and Publications
 - h. Project Evaluation
- 3. Psychologist: Ms. Ashwini Chavan
 - a. Field Supervision of project
 - b. Psychological testing & counseling Managing Psychology O.P.D

walkar Hospital

One at a time!

- c. Co-ordination with hospital & community.
- d. Attending calls on 24"x7 helpline.
- e. Coordination for 1 day adolescent workshops.
- f. Coordination for 10 days residential camps.
- g. Documentation of ladoos and medicine distribution.
- 4. **Super specialist Doctors**: Health check up & and Referral Services
 - a. Gynaecologist (Dr. Sulatkal)
 - b. Physician (Dr. Kaustub)
 - c. Opthalmologist (Dr. Kulkarni)
 - d. E.N.T (Dr. Mankame)
 - e. Dentist (Dr. Kondujkar)
- 5. Social Activist: Ms Snehal D.K
 - a. Community Motivation and Mobilization.
 - b. Preparation of I.E.C material and training modules

- c. Facilitation for workshop and residential camp.
- d. Survey and Participatory Rural Appraisals.

6. Dietician: Ms. Dipti Parab

- **a.** Planning & reporting of diet related activities.
- **b.** 24 hours dietary recall of adolescent girls.
- **c.** Preparation of diet sheet for adolescent girls.
- **d.** Lectures and motivational talks related to diet.

7. Physiotherapist: Ms. Priyanka Reddies

- a. Planning and implementing exercise schedule for adolescent girls
- **b.** Teaching Meditation and Yoga
- c. Teaching Ergonomics and right posture to adolescent girls
- **d.** Coordinating sports related activities in residential camps and workshops.
- e. Preparing Exercice, Yoga and Meditation IEC material for distribution in schools.

8. Sister in Charge:

- a. Arranging field level activities & hospital based workshop & residential camp.
- b. Staff management.
- c. Vehicles coordination
- d. Indenting Medicines and Ladoos
- e. Preparation of monthly reports.

Transforming lives...

9. Sisters:

- a. Documentation of project, case paper work, Health check up (Wt., Ht., BMI, HB),
- b. Arrangement of field & hospital based 1 day workshops & hospital based 10 days residential camp.
- c. All activities as told by Sister In charge.
- 10. **Data Entry Operator (D.E.O):** All data entry and computerized report generation.

Annexure 4: Gnatt Chart of Research Project

Milestones	Jun	Sep	Dec	Mar	June	Sep	Dec	Mar	June	Sep	Dec	Mar
	e	12	12	13	13	13	13	14	14	14	14	14
	12											
Survey												
												
School leval -				- in	***	47	**	7123	4		¥ .	
BMI (Wt. &		SV	C1	S	Wal	aw	alk	ar_{\perp}	Tosi	oita	l	
ht.) & Hb				-					-1			-
chech up.								1			2	
Distribution												_
of Ladoos			-	1	7		7	1				
Distribution		-	3	1	1.		-					
of medicines			7		1	1			-			
Field and	166	2		1	h	7						
Hospital	3	V	A.									
Based 1 day	\rightarrow	\rightarrow	\rightarrow	\rightarrow		\rightarrow	\rightarrow	\rightarrow	\rightarrow	\rightarrow	→	→
workshop	- 33	V		1	1			/				
Refferal		V		- 2	X.	200	/					
services	→	/	-	K	\rightarrow	_	\rightarrow	-	-		-	-
(hospital			- 69	1	/		6		100			
based)			*	_		ran	istoi	min	lg li	ves		
Hospital			1			- 11 / 21		1000	at a	tien	101	
Based 10							1	MIC	tit ti	1111	16 :	
days	\rightarrow	→		→	-	\rightarrow	\rightarrow	→	→	-	\rightarrow	→
residential												
camp												
Psychological												
Testing &			-		-				→			
Counseling												
Vocational		→		-		-		-		→		→
training												

Social			1						_		1	
Mobilization			—				-					
for												
Community												
Phone based												
24 hours	\rightarrow	→	\rightarrow	\rightarrow	-	-	-	→	\rightarrow	-	\rightarrow	\rightarrow
help line.												
Research and												→
Publication				d	1	47	**	1 2		/.	¥	
Project	- 4	SV	CI	S	Wal	aw	alk	ar I	1051	oita	l	
Evaluation	100	J	No.		SHALL ST		00/23		1	C. Profile		

