

Longitudinal Indian Family Health Study (LIFE)

Summary Report

The progress of the study as of 4th Feb 2020 is as follows:

Recruitment: The number of women enrolled = 1227(642couples and 585 only women)

Deliveries: Number of deliveries for LIFE women= 1275(100.0)

At MediCiti Hospital = 924(72.47%)

Outside MediCiti Hospital = 351(27.53%)

Outside deliveries by site of delivery

Sl.no	Name of the Hospital	No. of deliveries
1	Raju Hospital, Medchal	84
2	Mehar Hospital, Medchal	18
3	VVR Hospital, Medchal	12
4	Navya Hospital, Medchal	03
5	RMP Hospital/PHC (Medchal,Dabilpur,Gowdavelly,Srirangavaram)	13
6	Other Hospitals in Medchal	11
7	Harsha Hospital, Kompally	06
8	R.R Hospital, Kompally	03
9	Ashritha Hospital, Kompally	08
10	Prashamsha Hospital, Alwal	05
11	Sundaramma Hospital, Alwal	06
12	Home Deliveries	14
13	Outside Medchal	61
14	Gandhi Hospital	16
15	Outside District	73
16	Govt. Hospital	09
17	Other State	09
	Total	351

Type of Delivery

Delivery type	Place of delivery		Total
	Mediciti N %	Non Mediciti N %	N %
Normal	511(55.3)	175(49.86)	686(53.80)
Caesarean	413(44.7)	176(50.14)	589(46.20)
All	924(100)	351(100)	1275(100)

Distribution of live births by weight at birth

Birth weight (kg)	Live births at MediCiti	Live births outside MediCiti	Total Live births
< 2.5	190(20.86)	61(17.38)	251(19.89)
= 2.5	65(07.14)	71(20.23)	136(10.78)
> 2.5	656(72.00)	219(62.39)	875(69.33)
Total	911(100)	351(100)	1262(100)

Note: Birth weight data are given only for live births. No. of twins = 11

Pregnancy

Total no. of Pregnancy loss: 276

Total no. of Intra uterine deaths (IUD): 18

Total no. of Still birth: 06

No. of children living by age:

Current age in month	No. of children
0 – 2	0
3 – 5	0
06 - 08	0
9 – 11	0
12 – 14	0
15 – 17	2
18 - 20	6
21 - 23	6
24 - 26	7
27 - 29	4
30 - 32	10
33 - 35	4
36 - 38	11
39 - 41	15
42 -44	10
45 - 47	21
48 -50	15
51 - 53	16
54 - 56	20
57 - 59	24
60 - 62	23
63 - 65	33
66 - 68	30
69-71	22
72-74	31
75-78	62
79-83	91
84-86	54
87-89	66
90-93	104
94-96	91
97-99	110

Current age in month	No. of children
100-102	77
103-106	112
107-110	52
111-113	59
114-117	33
118-121	1
Total	1222

Child Follow-up visits

Note: Reasons for missing: (Initially delayed preparation of questionnaire for 6 & 12months, some children made ineligible due to by applying mother's ineligible criteria, vacant, refused, child given for adoption etc.)

6 months	
Questionnaires completed	990
Questionnaires pending (6-8 months)	0
Child follow up missing since 6months	0
Child follow up missing before 6months	239
12 months	
Questionnaires completed	964
Questionnaires pending (12-14 months)	0
Child follow up missing since 6months	0
Child follow up missing before 6months	262
18 months	
Questionnaires completed	1018
Questionnaires pending (18-20 months)	1
Child follow up missing since 6months	4
Child follow up missing before 6months	199
24 months	
Questionnaires completed	999
Questionnaires pending (24-26 months)	1
Child follow up missing since 6months	2
Child follow up missing before 6months	206
36months	
Questionnaires completed	988
Questionnaires pending (36-38 months)	1
Child follow up missing since 6months	3
Child follow up missing before 6months	191
48months	
Questionnaires completed	932
Questionnaires pending (48-50 months)	0
Child follow up missing since 6months	4
Child follow up missing before 6months	188
60months	
Questionnaires completed	920
Questionnaires pending (60-62 months)	9
Child follow up missing since 6months	3
Child follow up missing before 6months	122
6_7 years	
Questionnaires completed	805
Questionnaires pending (72-84 months)	20
Child follow up missing since 6months	20
Child follow up missing before 6months	88
3_4 years	
Questionnaires completed	1029
Questionnaires pending (36-48 months)	3
Child follow up missing since 6months	0
Child follow up missing before 6months	147

96_98 months	
Questionnaires completed	313
Questionnaires pending (96-98 months)	49
Child follow up missing since 6months	0
Child follow up missing before 6months	104
108_110 months	
Questionnaires completed	89
Questionnaires pending (108-110 months)	16
Child follow up missing since 6months	0
Child follow up missing before 6months	18
WISC_IV scale	
Questionnaires completed	198
Questionnaires pending (96- 132 months)	222
Child follow up missing since 6months	0
Child follow up missing before 6months	0
SMR_ scale	
Questionnaires completed	198
Questionnaires pending (96- 132 months)	222
Child follow up missing since 6months	0
Child follow up missing before 6months	0

Under five children deaths by site of delivery

Site of delivery	No. of infant deaths 0-1year age	No. of child deaths 1year & above age
Home	02	
MediCiti	19	03
Raju Hospital	05	
Tara Hospital	02	
Meher Hospital	02	
Deccan health service, New Allapur, Borbanda	01	
Yashoda Hospital	01	
Gandhi Hospital	01	01
Konark Hospital	01	
Govt. Hospital,Sangareddy	01	
Govt. Hospital, Thupran	01	

Under five children deaths by birth weight

Birth weight (kg)	No. of infant deaths 0-1year age	No. of child deaths 1year & above age
< 2.5 kg	16	01
=2.5 kg	04	01
>2.5	16	02

Probable cause of death based on verbal autopsy method

Cause of death	No. of under five children deaths
Sepsis (preventable)	16
Congenital pneumonia (non-preventable)	01
Aspiration pneumonia (preventable)	08
Asphyxia (preventable)	03
Snake bite (accident)	01
Congenital malformation (Non preventable)	06
Tension Pneumothorax (Preventable)	01
Drowning	01
Respiratory distress syndrome(Non preventable)	01
Adverse effect following immunization(AEFI)(Preventable)	01

Note: For (1) the cause of death needs to be ascertained

Age of the under five children at the time of death:

No. of days /months the child survived after birth	No. of under five children deaths
Less than 24 hours	7
1-6 days	12
7-28 days	2
1 month	4
2 months	3
3 months	2
4 months	2
8 months	1
9 months	2
10 months	1
18 months	2
24 months	2
Total	40

Total no. of under five children deaths: 36

Infant Deaths = 36, (Neonatal deaths (up to 28 days of life) = 21 and Post neonatal deaths = 15)

Child death (1-4 years) =4

Sample given status of deliveries

	MediCiti	Non-MediCiti
No. of deliveries	924	351
Blood collected	910	72
Urine collected	887	55
V. swab	883	46
Stool	846	14

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The progress of the study as of 4th February 2020 is as follows:

Recruitment:	
No. of women enrolled	1227
No. of men enrolled	642
Women follow up:	
No. of women delivered at Medciti hospital	924
No. of women delivered at Outside Medciti hospital	351
No. of pregnancies	1551
No. of normal deliveries	1251
No. of LSCS	589
No. of PIH	46
No. of Gestational Diabetes	17
No. of Thyroid	8
No. of Still births	6
No. of IUD	18
No. of live births including twins	1262
No. of live births excluding twins	1252
No. of twin pregnancies	11
No. of Abortions:	
A Miscarriage (loss of pregnancy before 20 weeks)	195
An Ectopic or Tubal Pregnancy (pregnancy that occurs outside of the uterus, typically in the fallopian tubes)	2
Elective abortion (Participant chose to end pregnancy)	19
Doctor's suggestion for medical abortion based on mother's health (Doctor suggested that the participant end the pregnancy)	23
Other (Specify)	15

Recruitment:

	Women	Men
FBS (>125mg)	10	20
HBA1C	--	--
Hypothyroid (TSH > 5.5 and T3 < 2.3 and T4 < 0.89)	11	6
Borderline Hypothyroid (TSH is between 5.6 and 10 μ IU/dl while T3 \geq 2.3 and/or T4 \geq 0.89)	58	39
Hyperthyroid (TSH < 0.35 μ IU/dl and T3 > 4.2 pg/ml and T4 > 1.76 ng/dl)	6	1
Borderline Hyperthyroid (TSH < 0.35 μ IU/dl and T3 is 2.3 – 4.2 pg/ml and T4 is 0.89 – 1.76 ng/dl)	13	7
Serum creatinine (> 1.3 MG/DL)	1	4
Hb % gm (<9.9 gm/dl)	95	6
BP (\geq 140/90)	38	105

5-6years Couple follow up:

	Women	Men

FBS (>125mg)	6	25
HBA1C (>6.5)	3	13
Hypothyroid (TSH > 5.5 and T3 < 2.3 and T4 < 0.89)	5	1
Borderline Hypothyroid (TSH is between 5.6 and 10 μ IU/dl while T3 \geq 2.3 and/or T4 \geq 0.89)	68	28
Hyperthyroid (TSH < 0.35 μ IU/dl and T3 > 4.2 pg/ml and T4 > 1.76 ng/dl)	4	2
Borderline Hyperthyroid (TSH < 0.35 μ IU/dl and T3 is 2.3 – 4.2 pg/ml and T4 is 0.89 – 1.76 ng/dl)	6	3
Serum creatinine (> 1.3 MG/DL)	3	2
Hb % gm (<9.9 gm/dl)	73	1
BP (\geq 140/90)	58	184

Children follow up:

	Total eligible	Total completed	Completed but not eligible
06 to 08 months	1230	990	64
12 to 14 months	1226	964	54
18 to 20 months	1222	1018	54
24 to 26 months	1222	999	50
36 to 38 months	1183	988	70
36 to 48 months	1183	1029	72
48 to 50 months	1126	932	67
60 to 62 months	1051	917	69
72 to 84 months	943	805	70
WISC –IV	476	198	15
96 to 98 months	476	324	13
108-110 months	133	89	11

3-4 years children mental health screening	Total	Percentage
No. of children screened	1007	
No. of Normal children	780	77.46
No. of children with problems	227	22.54
Identified problem		
Fine motor	101	10.03
Speech delay	29	2.88
Behavior problem	49	4.87
Speech problem	16	1.59
Developmental Delay	6	0.6
Developmental delay with speech problem	7	0.7
ADHD	4	0.4
Speech problem with Fine motor	6	0.6
Fine motor with Behavior problem	2	0.2
Speech delay with Behavior problem	2	0.2
Separation anxiety	2	0.2
ADHD with Developmental delay	1	0.1
ADHD with speech problem	1	0.1
Separation anxiety with Fine motor	1	0.1

Note: This table is updated as on 29-11-2019

Test administered: Gessel children behavior schedule:

Results: Developmental Levels

SNo.	Developmental Area	Total	25 percentile	75 percentile
1	Motor Development	32	36	36
2	Adaptive Behaviour	32	30	34.5
3	Language Development	31	18	24
4	Personal Social Behaviour	32	36	36

6-7years children follow up:

	Total	
Hb gm%	781	57 (<10gm)
FBS	781	Normal
S.Creatinine	781	3 (>0.91)#
HbA1C %	-	
F.T3	781	Normal
F.T4	781	Normal
TSH	781	52 (>5.5)

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Baby samples

	MediCiti	Non- MediCiti
No. of live births	911	351
Cord blood collected	891	8
Cord blood missing since 6 months	1	3
Cord blood missing before 6 months	19	340
Meconium collected	812	23
Meconium missing since 6 months	0	3
Meconium missing before 6 months	99	325

PNC follow-up status (all samples)

	MediCiti	Non-MediCiti	Total
Deliveries	924	351	1275
Eligible(>25 days)	911	351	1262
Questionnaire (+) Lab completed	867	272	1139
Pending	0	0	0
Missing since 12 months	3	0	3
Missing before 12 months	41	79	120
Blood collected	852	253	1105
Urine collected	849	247	1096
V. swab collected	845	247	1092
Stool collected	634	147	781