Obstetric performance of the rural primigravidae 1965 to 1968, in Kuantan, Pahang.

by Johan A. M. Thambu

MBBS (Malaya), MRCOG (London), AM, FICS

Hospital Besar, Ipoh, Perak.

STUDIES ON THE OBSTETRIC performance of primigravidae in the tropics were made by Llewellyn-Jones (1965) and Thomson and Baird (1967). Llewellyn-Jones' study was on the effect of age and social status on obstetric efficiency of the primigravidae in Kuala Lumpur. Thomson and Baird's study was limited to Western Nigeria, Hongkong, Sarawak and Sabah. It is well known that efficient reproduction depends on the interaction of a number of socioeconomic factors. In the author's study, the first in

Data:

The data obtained was tabulated as follows:-

TABLE I Ethnic Group/Hospital Deliveries/Year								
Ethnic Group	1965	1966	1967	1968	Total			
Malays	38	46	48	66	198			
Chinese	172	169	167	199	707			
Indians	25	24	29	35	113			
Total:	235	239	244	300	1018			

Table I shows that there was an increase in the number of hospital deliveries from 235 (1965) to 300 (1968) The table also shows that there was an increase in all ethnic groups. It must be stated that many Malay primigravidae do not seek hospital confinement, but it was encouraging to note that there was a noticeable increase amongst the Malays from 1965 to 1968.

a rural area, an attempt was made to see if ethnic factors had any effect on the obstetric performance of the rural primigravidae in Kuantan, Pahang.

Method and Materials

The prospective study was carried out from

January 1968 to December 1968 at the Department of Obstetrics and Gynaecology, Maternity Hospital, Kuantan. The data obtained for 1968 were then compared with a retrospective study of the records of all primigravidae delivered at the General Hospital, Kuantan from January 1965 to December 1967

		4	TABL Ethnic Group				
Ethnic Group	Year	< 14	15-19	Age 20-24	in years 25-29	30-34	35-
	1965	0	7	23	6	1	1
55.	1966	0	11	23	9	3	0
Malays	1967	2	15	20	10	1	0
	1968	0	18	33	9	6	0
Total:		2	51	99	34	11	1
	1965	0	30	85	45	7	5
Section 1975	1966	0	31	82	44	11	1
Chinese	1967	0	37	66	58	6	0
	1968	Ö	33	93	60	11	2
Total:		0	131	326	207	35	8
	1965	0	16	5	4	0	0
25000	1966	0	11	10	2	1	0
Indians	1967	0	16	7	5	1	0
	1968	0	14	13	7	1	0
Total:		0	57	35	18	3	0

Table II shows that for the Malays and the Chinese, the majority were in the age group 20 to 24 years similar to the findings of Llewellyn-Jones (1965) in Kuala Lumpur but for the Indians the majority were in the 15 to 19 age group. The table also shows that there was an increase in the age of primigravidae in 1968 when compared with those in 1965. Primigravidae below the age of 15 years or above 36 years accounted for only 11 cases out of a total of 1018, an incidence of 1.8%.

TABLE III Ethnic Group/Year/Duration of labour in hours									
Ethnic Group	Year	0-6	6-12	Labour 12-18	in hours 18-24	24-48	48+		
	1965	10	16	6	3	2	1		
	1966	13	19	8	4	1	1		

THE MEDICAL JOURNAL OF MALAYA

		Ethnic	TABI Group/Year	E V Weight of b	abies		
Ethnic Group	Year			Weight	in lbs.		
	1965	5	13	6	1	0	0
Lyd a	1966	4	10	9	1	0	0
Indians	1967	8	5	12	4	0	0
	1968	4	11	16	3	0	0
Total:		21	39	43	9	0	0

Table V shows that for all ethnic groups, the majority of babies weighed between 6 to 7 pounds. For the Malays and Indians, the second largest group belonged to the 5 to 6 lb. groups, but for the Chinese it was in the 7 to 8 lb. group.

TABLE VI Ethnic Group/Year/Postpartum blood loss/Retained placenta									
Ethnic	Year	Blood loss in ozs. Retain							
Group	Minu.	0-5	6-10	11-15	16-20	20+			
	1965	3	18	10	3	2	2		
	1966	7	29	5	1	4	2 2 5 1		
Malays	1967	10	31	3	1	3	5		
	1968	38	25	1	1	1	1		
Total:		48	103	19	6	10	10		
	1965	23	119	18	5	7	3		
90.677.0	1966	30	101	19	13	6	5		
Chinese	1967	41	95	19	8	4	3		
	1968	99	90	4	3	3	3 5 3 2		
Total:		193	305	60	29	20	13		
	1965	8	15	1	o	1	0		
2 - 30 - F	1966	7	10	3	3	1	1		
Indians	1967	7	16	6	0	0	0		
	1968	16	14	5	0	0	0		
Total;		38	55	15	3	2	1.		

OBSTETRIC PERFORMANCE OF RURAL PRIMIGRAVIDAE IN PAHANG

Table VI shows that for all the ethnic groups for the years 1965 to 1967, the average post-partum blood loss was 6 to 10 ozs. For 1968, all the ethnic groups showed a reduction in post-partum blood loss to 0 to 5 ozs. There was also a lower incidence for all ethnic groups of post-partum haemorr-hage and retained placenta. The explanation for this was the introduction of the author's method for the management of the third stage of labour. In this method, 1 cc of Syntometrine was given to the patient by intramuscular injection after the birth of the baby and the placenta was delivered by controlled cord traction. (Dr. Thambu 1970).

		1		BLE VII /Year/Foetal	loss			
Ethnic Group	Year		resh Ibirth		erated lbirth	N	leonatal death	
	100	< 5 lbs.	> 5 lbs.	< 5 lbs.	> 5 lbs.	< 5 lbs.	< 5	lbs.
	1965	0	2	0	2	1	2	7.
NA Desc	1966	1	1	1	1	2	1	7
Malays	1967	0	1	1	0	0	2	4
	1968	1	0	0	Î	0	0	2
Total:		2	4	2	4	3	5	
	1965	0	2	0	0	ì	1	4
CI.	1966	0	2 0 1	0	0	2	3	3
Chinese	1967	0	í	1	0	P	1	4
	1968	0	0	0	0	1	0	T.
Total:		0	3	1	0	5	3	
	1965	0	0	1	0	0	0	1
. 10	1966	0	0	0	0	0	0	0
Indians	1967	1	1	0	0	1	0	3
	1968	0	0	0	0	0	0	0
Total:	11.5	1	1	1	σ	1	0	

Table VII shows a remarkable reduction in foetal loss for all ethnic groups from 1965 to 1968.

	ABLE VIII natal Mortality
	THE PERSON NAMED IN
Year	Perinatal mortality
1965	49.7%
1966	41.7%
1967	45.1%
1968	10.0%

Table VIII shows that in 1965, the perinatal mortality was 49.7% and this was reduced over the years to 10.0% in 1968.

	ABLE IX rnal Mortality
Year	Maternal Mortality
1965	0/1000
1966	9/1000
1967	0/1000
1968	0/1000

THE MEDICAL JOURNAL OF MALAYA

	TABLE III Ethnic Group/Year/Duration of labour in hours									
Ethnic Group	Year			Labour in	hours					
Malays	1967	14	15	6	2	3	0			
	1968	24	34	6	1	1	0			
Total:		61	84	26	10	7	2			
	1965	54	79	23	7	8	1			
	1966	45	76	34	5	7	1 2 0			
Chinese	1967	44	82	24	11	6	0			
	1968	72	88	31	3	5	0			
Total:		215	325	112	26	26	3			
	1965	9	11	5	0	0	0			
	1966	6	11	5	2	0	0			
Indians	1967	6	14	5	1	2	0			
	1968	12	17	5	2	1	0			
Total:	Table and	33	53	20	5	3	0			

Table III shows that for all ethnic groups, the average duration of labour was 6 to 12 hours but for 168, there was a slight shift to 0 to 6 hours. The explanation for this was that in 1968 the author carried out clinical trials of Algapan to shorten the duration of labour (Dr. Thambu 1971).

TABLE IV Ethnic Group/Year/Type of Delivery								
Ethnic	Year		Type of D	elivery				
Group		Spontaneous vaginal delivery	Assisted Breech Delivery	Forceps	L.S.C.S.			
	1965	24	2	.8	5			
January III	1966	31	6	6	3			
Malays	1967	30	9	2	7			
	1968	45	6	5	10			
Total:	1	30(65.9%)	23(11.6%)	21 (10.6%)	25(12.6%)			
	1965	140	5	19	8			
	1966	143	4	16	6			

	E	TABLE thnic Group/Year/7			
Ethnic	Year		Type of I	Delivery	
Group		Spontaneous vaginal delivery	Assisted Breech Delivery	Forceps	L.S.C.S.
Chinese	1967	147	5	10	5
	1968	164	8	11	16
Total:		594(84.0%)	22(3.1%)	56(7.9%)	35(4.9%)
	1965	22	1	1	1
Ý., 10.	1966	20	2	1	11
Indians	1967	26	1	1	1
	1968	30	2	1	2
Total:		98(86.2%)	6(5.3%)	4(3.5%)	5(4.5%)

Table IV shows that spontaneous vaginal delivery was higher amongst the Indians (86.2%) and Chinese (84.4%) than the Malays (65.9%). Table IV also shows that the incidence of forceps delivery and the Caesarean section rates were higher in the Malays (forceps 10.6% and Caesarean section 12.6%) than in the Chinese (forceps 7.9% and Caesarean section 4.9%) and Indians (forceps 3.5% and Caesarean section 4.5%). The incidence of breech deliveries was also higher in the Malays. The reason for the higher incidence of complications in labour amongst the Malays would be explained by the fact that the average Malay primigravidae does not seek hospital delivery unless her pregnancy or labour has been complicated by other factors.

	TABLE V Ethnic Group/Year/Weight of babies									
Ethnic	Year		- 7.	Weight	in lbs.	7				
Group		< 5	5-6	6-7	7-8	8-9	9+			
Malays	1965	5	11	13	9	0	0			
	1966	7	8	18	10	2	0			
	1967	5	11	17	12	3	0			
	1968	8	20	26	10	2	0			
Total:	1-1	25	50	74	41	7	0			
	1965	8	31	76	53	4	0			
Chinasa	1966	10	28	75	53	3	0			
Chinese	1967	5	27	75	50	9	1			
	1968	8	35	78	68	8	2			
Total:	1111	31	121	304	224	24	3			

Maternal mortality for 1965 to 1968 — 1.96%/

Table IX shows that the maternal mortality for 1965 to 1968 was 1.96 per thousand. The maternal mortality for a similar study on primigravidae at Kuala Lumpur by Llewellyn-Jones (1965) was 0.76 per thousand.

Comments

The sociological aspects of obstetrics have been discussed in detail by Baird (1949) Llewellyn-Jones (1965) and Thompson and Baird (1967). The previous study on Malaysian women was by Llewellyn-Jones (1965) on the relationship between age, social class and the obstetric performance of the primigravidae in Kuala Lumpur.

The author's study has shown that the good obstetric performance of the rural primigravidae in Kuantan was due to the important factor that most of them were in their early twenties. It is well known that the best reproductive performance are maintained by women in their twenties. Thus the obstetric problems of the very young or the elderly primigravidae only accounted for 1.8% in this study. The author feels that with the family planning

services available, a woman should be advised to plan and have her first baby in her early twenties.

The reduction in the perinatal mortality from 49.7% in 1965 to 10.0% in 1968 reflects the improvement in the ante-natal care in the rural areas. More primigravidae are seeking the services of the health clinics and the hospitals.

Thompson and Baird (1967) have pointed out that the most efficient childbearing requires youth, good health, physique and good ante-natal and hospital obstetric care. The above factors are further influenced by the interaction of social and environmental factors. The author's study on the rural primigravidae in Kuantan has shown that the obstetric performance of the Malays, Chinese and the Indians were similar and the apparent difference seen in the data obtained could be explained by the cultural and environmental factors and could not be attributed to ethnic differences.

Acknowledgement

I am grateful to the Chief Medical & Health Officer, Pahang, for permission to carry out this study. I am also grateful to the staff of the Department of Obstetrics and Gynaecology, General Hospital, Kuantan, Pahang.

References

Llewellyn-Jones J.D. (1965) J. Obstet. Gynae. Brit C'wlth Vol. 2 196-202.

Thompson B. and Baird D. August 1967 J. Obstet. Gynae. Brit Cwlth Vol. 74, 499-509.

Thambu J.A.M. (August 1970) Proceedings of the 5th

Malaysia-Singapore Congress of the Academy of Medicine, Kuala Lumpur.

Thambu J.A.M. (March 1971) Med. J. Malaya. Vol. xxv No. 3 234-236.

Baird D. (1949) Lancet 1 1079.