Maternal Dietary Intake Following Cesarean Section

U. Kapil

S. Kaul

S. Chaturvedi

M. Srivastav

D. Nayar

Community based studies have been reported in the past regarding the wrong beliefs and practices during antenatal and postnatal periods among women who belong to the poor socio-economic group(1-4). However, no data is available on the dietary intake of mothers who are hospitalized after cesarean section.

In order to fill the gap in the existing knowledge the present study was undertaken with the following objectives: (i) to assess the maternal dietary intake following cesarean section; and (ii) to study the dietary beliefs following cesarean section.

Material and Methods

The study was conducted on 60 consecutive mothers who had undergone cesarean section from September 1989 to February 1990 at a teaching hospital attached to a Medical College, New Delhi.

From the Department of Human Nutrition, All India Institute of Medical Sciences, New Delhi 110 029.

Reprint requests: Dr. Umesh Kapil, Associate Professor, Department of Human Nutrition, All India Institute of Medical Sciences, New Delhi 110 029.

Received for publication: July 10, 1992; Accepted: December 1, 1992 The aims of the study were briefed to the mothers. A pretested open ended question-naire was administered to each mother on the 4th day after cesarean section. Mothers were inquired about when they would start taking normal diet, what kind of foods they should eat and why. Similarly, what kind of foods they should avoid and why.

The dietary intake of mothers was assessed by using 24 hour dietary recall method by experienced dieticians.

Results

The mean age and parity of mothers was 26.4 years and 1.6, respectively. Half of them were primipara, 40% second para and 10% were para three or more.

Thirteen per cent of mothers were post graduates, 38% were graduates, 28% had done only schooling and the rest 21% were uneduated. Only seventeen per cent of the mothers were working and the rest were housewives.

Forty per cent of children were breast fed within 4 hours of birth, 33% within 4-8 hours. 11% within 9-12 hours, 12% after 12 hours and 4% after 1 day.

The mean calorie intake was 656 ± 255 kcals (range 208-1520 kcals) and mean protein intake was 24 ± 10 g (range 3 ± 45 g). A quarter 26% of mothers had a caloric intake less than 500 kcal, 10% more than 1000 kcals and 64% between 500-1000 kcals per day. Similarly, 20% of mothers had a protein intake of less than 15 g, 22% more than 30 g and 58% between 15-30 g per day.

Forty per cent of mothers believed that they could resume their normal diet on the 7th day after delivery while 22% believed they could resume it on the 4th day. Half of them held the wrong belief that "light foods" which are believed to be easily digestable like fruits, soups, milk and green leafy vegetables should be consumed during the post operative period. Nearly, half (55%) of mothers believed that foods rich in fats should be avoided while 20% had knowledge that whole pulses and strongly flavoured food should be avoided.

Discussion

and configurations.

The mean dietary intake was inadequate for calories and proteins as against the Recommended Dietary Allowance by the ICMR for Indian lactating mothers (2425 kcal and 75g protein).

It may be due to continuation of the traditional belief that after a surgical operation the intestines become weak and are unable to digest "heavy food" and hence only the food considered to be light should be consumed.

The findings of the present study highlight the importance of training both the medical and para-medical hospital staff to advise the mothers about the correct dietary practices to be followed during antenatal and post natal period.

REFERENCES

- Aggarwal KL, Chandra S, Sharma SN. Lactational and dietary habits of nursing mothers in rural community of Kanpur. Indian J Comm Medicine 1986, 11: 199-204.
- 2. Belvadi B, Pasricha S, Shankar K. Studies on lactation and dietary habits of Nilgiri hill tribes. Indian J Med Res 1959, 47: 221-233.
- 3. Mukerjee PS. Feeding of children in urban West Bengal. Indian J Pediatr 1959, 46: 467-476.
- 4. Prasad BG, Rama RA, Nayar SB. A study on beliefs and customs in Lucknow in relation to certain diseases, menstruation, child birth and family planning. Indian J Social Work 1969, 30: 45-54.
- 5. Rao BSN, Deosthale YG, Pant KC. Nutritive value of Indian foods. National Institute of Nutrition, ICMR Offset Press, New Delhi, 1989, pp 47-67.