1479

BRITISH MEDICAL JOURNAL VOLUME 291 23 NOVEMBER 1985

and repeat thyroxine and thyroid stimulating hormone concentrations were analysed in the same laboratory using the same kit and in the same assay. Patients who had a low concentration of thyroxine and a high concentration

Serio increagation took part in this titely, and 78 patients were cancred. The properties of the patients in the 75 even studied, 65 exemists and 10 men. The mean age of the patients entered was 63 years (range men 47-78, women 28-60. The average duration of treatment was 95 years (range two 10 32 years). The reason for starting treatment varied from laboratory confirmation in 96 to included coordinates to 100 to 100 age, 100 to 100 to 100 to 100 to 100 age, 100 to 100 to 100 to 100 age, 100 to 100 to 100 age, 100 to 100

	Total No	No of	No of men	Antibodies present	Previous surgery	Previous radiosodine treatment	Previous biochemica proof
True hypothyroid group returned to treatment		41	,	25	•	2	.9
Chinically and buckhemically enthyroid group Kept off							
treatment	15	14	1	4	•	1	
Wanted to							
return to							
treatment		•		2	2	0	4

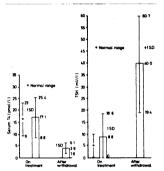


FIG. 1.—Change in serum thyroxine (T4) concentrations and concentrations of thyroid stimulating hormone (T5H) in the true hypothyroid group before and after withdrawal of treatment.

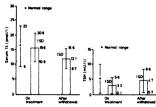


FIG 2—Change in serum concentrations of thyroid stimulating hormone (TSH) and thyroide, [T41] in combined euthyroid group before and after withdrawal of treatment.

Discussion

The overall analysis after the 21 day withdrawal test of thyroid treatment shows that the patients fell into four categories. In the first are those who were truly hypothyroid and needed to return to treatment, some before the 21 days were over. The response of the pitutary-thyroid axis in these patients is shown clearly, even when some patients had been on thyroune for many years. In this group 29 is 58% is patients thad previous biochemical proof of hypothyroidsmic compared with nane (45%) patients (p<0.001) in the whole who were thousandly and biochemically cuthyroid and who tubesquently did not receive treatment. The third consists of the six patients who were proved to be clinically and biochemically cuthyroid at day 21, but for various reasons wanted to return to treatment. Some patients, particularly the clederly, were reductant to refrain from taking medication that had been prescribed for many years by their usual doctor. Exemption from precipion charger factor.

Eight patients who take thyroisme may also have been a compliance factor.

Eight patients had a low thyroisme concentration on the and many and the serious who take thyroisme concentration but a formal.

for patients who take thyroxine may also have been a contributing factor.

Eight patients had a low thyroxine concentration but a normal thyroid stimulating hormone concentration after withdrawal. Because they all felt symptomatically hypothyroid they were all returned to treatment. Some of these patients may have had hypothalamic-pituitary disease, but it was not considered justifiable in the absence of clinical features to pursue this diagnosis. Of the 21 patients in the combined cuthyroid groups, name had previously documented biochemical evidence of hypothyroids stories and some had had previous surgery and one treatment with radioactive solities they of the stories of the production of the production. As this part of the study was retrospective, there was no way of substantiating the cause. There were no cardiovascular problems recorded in the group restanted nethyroxine.

The Crooks' hypothyroid index proved to be unreliable as there was no statistical relation between the values and the thyroxine and otherwise through timeliable as there was no statistical relation between the values and the thyroxine and otherwise of the statistical production of the production of the production of the phyroxine and otherwise of the production of the production

BRITISH MEDICAL JOURNAL VOLUME 291 23 NOVEMBER 1985

The significance of any results was at p<0.05, using  $\chi'$  and Yate's orrection for low numbers where needed.

The results of the follow gold the belows to the age of about 5 years will be Complications and 41 to 5 years.

In the five years from 1978 to 1983 the names of 486 mothers were submitted for entry into the survey. Of these, eight musearned or moved away from Ease. Of the remaining 478, 248 were booked for a home delivery, 206 for a hospital delivery, and 36 for a general particulor, 206 for a hospital delivery, and 36 for a general particulor unit group were not within the protocol for vanous reasons, most commonly being that they were aged over 35 or under 206, under 135 cm in height, or were unlighears. There remained therefore 202 in the home group and 185 in the hospital group, who are reported on here. Table 1 aboves that the we group sever comparable except for parity:

TABLE 1-Details of women who were booked for either a home delivery or a hot delivery

	Home group	Hospital group
No of women	202	185
Average age vears	28 90	28 52
Percentage of smokers numbers	22 44	18 (34)
Average social class	2:58	2 58
Parity as per cent :numbers:		
1	49 (99)	74 (125)
;	39 (78)	21 (38)
ì	12 (25)	5(11)
Average birth weight of buby (kg:	3:47	3 48

Of women in the home group, 24 were delivered elsewhere. 17 were transferred for hospital delivery before the ones of about and seven after transferred for hospital delivery before the ones of about and seven after transcript allowed for the the III. The remaining 178 were delivered at home, sax 18th being induced, usually with buccal oxytocin, and four had a low forceps delivery for delay in second sings. There was one face delivery and there face to pubes. One hundred and saxy four had a normal spontaneous vertex delivery, 161 by the attending missifier, and one by her husband before the midwife or doctor arrived. None was delivered by the general prestituence; although the or the was usually present in the exceed stage at least. Overall, in the home group, including those who were transferred, 17.8% were indiced.

TABLE 11—Details of termen who had booked for a home delivery but were delivered in hospital

1° transferred before the owner of labour because of	
Postmature, all were induced	4
Antepartum haemorrhage 2 caesarean	1
Majoresentation	
Patients request, both had spontaneous vertex delivers	2
Bren h	1
Edward	1
verses transferred after the cases of labour he, ause of	
Prematurity one delivered in ambulance by general practitioner	3
Dean in second stage (persistent occipatoposterior position	
spontaneous rotation during journey and low forceps	1
Ruptured membranes and not in labour after 16 hours	1
Inertia	1
Brow presentation in first stage caesarean	1

In the hospital group two had a spontaneous normal delivery at home at their request, and the remaining 183 were delivered in hospital of whom 187 19% were induced. There were two closed in face to pulse. There were no local to the spontage of the spontage of the spontage of the complex there were no cuesarcan deliveree. There were no permanal deaths in either group Table III lists the complexations in the two groups, but except for induction none of the difference was significant. In the home group 6 130% mothers had 79 complexations, of whom \$1 25% had some complexations, and other induction, during blows, whereas 6.25% mothers in the hopping group

Complications	Home group	Hospital group
Induction	17	35
Breech	1	2
Malpresentation	2	
Fact	- 1	
Face to pubes	3	3
Ruptured membranes and not in labour 16 hours	1	
Delay in second stage without inertia	1	
Forceps	4	2
Carsarren section	3	
Pre-eclamotic rosaemia		3
Assepartum kaemorrhage	3	
lorria.	3	6
Antenarium haemorrhage in labour		1
Cord round neck	6	3
Shoulder dystocia		2
Postpartum haemorrhage (500 ml or more)	10	14
Retained placents and manual removal	2	4
Retained placents—other	3	
Retained products with dilatation and curettage	1	3
Small secondary postpartum harmorrhage	2	- 1
Subin wikition	i	4
Personal infection or breakdown	i	6
Manufactus and Colonia and Col	i	i
Other infection	i	3
Superficial thrombophicbits	,	2
Postastal depression		4

had 97 complications, 59 (32%) having complications during labour. Table IV shows some differences in Appart accres. Significantly (ever bables had an Early shows a supplied to the property of the property

TABLE IV -- Details of espisionomy, tears, and Appar scores in both group

	Home group No N	Hospital group	. Significance
		No No.	
Episiotomy and tears			
Total No with details			
revorded	197	183	
Intact perincum	86 44	53 (29)	p-:001
First degree tear	67 (34)	48 26	NS
Second degree sear	19 (9)	31 (17)	p=:0:05
Episotomy	25:13:	51 : 28	p<0.001
Episiotomy or second degree			
tear	44 . 22	82 (45)	p-: 0:001
Anear score of babers	*****		
No with details recorded	186	185	
Tor less at burth	32 17:	48 . 26	p< 0.05
	10 /5	15 (8)	NS.
8 or less at 5 min	10 .2	15 (8)	14.0

BLE	v - B	reast	feeds

	Home group	Hospital group
No for whom details were recorded	197	182
All mothers		
Never breast led 5	16	18
Still breast feeding at four weeks ***	76	67
Smokers		
No	44	33
Never breast led 5:	32	21
Still breast feeding at four weeks: %	45	67
Non-smokers		
No	153	149
Never breast fed %	10	17
Still breast feeding at four weeks	84	67

### 1478

symptoms and signs was, however, significant: p<0.01. The with-drawal test was quick, safe, and reliable for assessing the need for continued thyroid medication, even after several years of treat-

continued thyroid medication, even after several years of treat-ment.'

We found that 21 (28%) of the 75 patients studied were not hypothyroid. Rizzolo and Fischer showed that six of their 10 patients were cultyroid after the withdrawal test.' From the order of the several properties of the control of the missing of the control of the control of the control of the control of the missing of the control of the control of the control of the control of the missing of the control of th

We thank Professor R Hall of University Hospital Wales, Cardiff, for sufful comments and encouragement: Dr D Ashles, postgraduate depart-ment. Morriston Hospital, for help with the computer analysis. Dr W O Williams, Royal College of General Practitioners Unit at Swanses and Dr A dumes, biochemistry department. Neath, for their encouragement: and

BRITISH MEDICAL JOURNAL VOLUME 291 23 NOVEMBER 1985

Miss Julia Taylor and Mrs B Jaeger for tryping. The study was financed by a grant from the Welsh Scheme for the Development of Health and Social Rewarch.

- References
  1 Fin Al Drow W, Minsoh D, et al. Impourh hypothymioton also steps il transmert of lateratoricone. Lear of 19% in 12.5.
  2 Server D, M. Lind A, Drow W T, Brown S, Min AJ, Timouch hypothymioton also state in 19% in 19

# Five year prospective survey of risk of booking for a home birth in Essex

I M L SHEARER

## Abstract

Abstract
A prospective survey was undertaken in 26 practices in Easex to assess the risks associated with a home birth. The 202 women when the compared with a some confidencement were compared with a constitute of 185 women who were booked for hospital delivery under consultant care. The principal difference is outcome was the induction rate of 19% in the hospital group compared with 8% in the group booked for delivery at home. A higher rate of episiotomy and second degree tears and more Appar scores of 7 or below were found in those who were booked for hospital. There were no perinatal deaths in either group. The results of this study showed no evidence of an increased risk associated with home confinements but indicated that there were fewer problems than were encountered in the deliveries in mothers confined in hospital.

lateroduction

When I started in general practice in 1954 about a third of all babies were born at home, and only women with problems and a few primiparas were able to book a bed in the local hospital, \$5 [ohis, Chelmford, By the early 1976s this had changed greatly, and it was possible to book all mothers who wished for on needed a bed in the consultant unit. Although my partners and I continued to look after home delivenes, we were often asked about the risk of a home birth, and in the past decade or so the usual reason given by low risk mothers for a request for a hospital-deliveness to be not firm start." But it this in despirable delivers to be not firm evidence for this view, although Peel, Short, and Feroze' base their

ondence to Grev's Cottage, Maidon Road, Kelvedon, Easex CO5 9BD

recommendations for the phasing out of home deliveries on this apparent "self evident" assumption. Murror more recently state with farm convictions "that the presence of the properties should continue to be promoted in the interests of the safety and welfare of the mother and her baby." The case is far from clear cut, however, and there is increasing evidence that planned home confinements with good anteniatal care are no less safe than hospital deliveries. Although the use of modern obsetire technology is of unsolitored value in the management of the fetus. "It not so unsolitories are not provided to the control of the control

Method

Twenty as practices throughout Essex agreed to take part in the study. The extrema for inclusion were that the mothers were between the ages of 20 for the content of the part of the extrema for inclusion were than the mothers were between the ages of 20 for the part of 20 for 20 for

dud well. Their average age was slightly higher as 30. Only 12%, 41 were southers, and their average would class was 2.7. The average weight of their modern, and their average weight of their strength of their

Discussion

In a survey with 26 different general practices participating it is difficult to adhere strictly to the protocol and collect sufficient understore to make the study worthwhite. About six women in the hospital group were entered, although both form that been sent to me at the same time so that the outcome was known at the time of acceptance. Non-had complications, and at the time I was short of controls. Otherwise no entry was acceptance will be a survey and the same time so that the outcome was known at the time of acceptance. Non-had complications, and at the time I was short of controls. Otherwise no entry was acceptance may be a survey as a secretary to the survey and the survey and the women for whom data were incomplete (such as smoking habits or social class).

Some bias occurs with the second form submitted after the postnatal cammation because the hospital reports were often incomplete or sketchy, and, unless specially survey and the survey of the submitted after the postnatal cammation because the hospital reports were often incomplete or sketchy, and, unless specially survey. The protocological survey and the survey of the s

RITISH MEDICAL JOURNAL VOLUME 291 23 NOVEMBER 1985

BRITISH MEDICAL JOURNAL VOLUME 291 23 NOVEMBER 1985 hospital discharge note. Because J studed only a minority of the hospital deliverse! I think that this certainly was a bias in favour of the safety of the hospital births.

Although the numbers are too small to draw firm conclusions, the results suggest that there is no appreciable increased rask to the mothers or the rubbes in booking for a home birth. They certainly do not support any 'self-evident' risk thing for a home birth. They certainly do not support any 'self-evident' risk there of requests for home confinement falls the skills of the general practitioners who undertake intrapartum care at home will inevitably dimunish. Without such skills, and particularly the skills for the domiciliary midwives, the results of such a survey might in future be rather different, as many of the general practitioners who took part in this study had been in practice when home confinements represented at least a fifth of all ediverses.

The results of this survey again highlight the lack of reliable data. Perhaps then there might be a reversal of the swing that hat saken place during my practice littlent from 20 to 39 plananet home birth towards 10% hospital births.

I thank the many madowes who delivered most of these mothers to

I hank the many modewise who delivered most of these mothers so successfully, all the general practitioners in the 26 Euses practices who kndly contributed details of the women and control women, the research committee of the Euser Faculty of the Royal College of General Practitioners, may partners for their support, in particular Dr Nigel Towon for help and the use of his computer in the early stages of analysis, and Dr L I Zander for helpful criticism and advice.

References

Standing Mariners and Mariners Advisory Commones Demochary studies; and maxima, but was Report of the sub-commister Leudon HMSO, 1970.

Senal Servers Controllers: Senal regards and the areal servers commister 1977-80 personal and 3 jours Serving Parts of the Reput Golding of Democracions and Cornectorings and the Reput Golding of Corners of Securities. Program a memory of course the Technology of Senal regards and the Reput Golding of Corners of Securities. Program a memory of course the Technology of Senal registers and the Reput Goldings of Corners of Securities. Program and the Reput Goldings of Corners of Securities. Program and the Reput Goldings of Corners of Securities and Securities and Securities. Program an

may be kept sealed until the feast to avoid accidental contamination. Generic substitution is not appropriate in such circumstances.—PETER D TOON, general practitioner, London.

Orstors and poets have not in any age been backward to draw upon the fund of medical lore for similar som dilbutaristoms. The great school of Alexandria taught the world to alk about it sports, high of low. Later thoores were referred in the similar power of the control of th