

Table SI. Clinical diagnosis and conservative treatment of fetal goitrous hypothyroidism with LT4.

Authors name	Poly hydramnios	Assessment of fetal thyroid status	Drug	Administration	Dose ( $\mu\text{g/ml}$ )	Dosing interval	Doses number
Sagot <i>et al</i> (20)	No	Amniocentesis/ cordocentesis	LT4	ia	300	Single dose	1
Abuhamad <i>et al</i> (28)	No	Cordocentesis	LT4	ia	10 $\mu\text{g/kg}$	Weekly	7
Grüner <i>et al</i> (12)	Yes	Cordocentesis	LT4	ia	250- 500	Weekly	10
Perrotin <i>et al</i> (10)	Yes	Amniocentesis	LT4	ia	150- 435	2 weeks	5
Agrawal <i>et al</i> (23)	Yes	Cordocentesis	T3/LT4	ia	60-120/150-300	Weekly	3/4
Morine <i>et al</i> (29)	Yes	Cordocentesis	LT4	ia	250	Single dose	1
Caron <i>et al</i> (30) case 1	No	Cordocentesis	LT4	ia	200	4 weeks	2
Caron <i>et al</i> (30) case 2	No	Cordocentesis	LT4	ia	500	4 weeks	2
Mirsaeid Ghazi <i>et al</i> (31)	No	Amniocentesis	LT4	ia	500	Weekly	3
Simsek <i>et al</i> (32)	No	Cordocentesis	LT4	ia	500	Weekly	9
Hanono <i>et al</i> (33)	Yes	Cordocentesis	LT4	ia	250-500	Weekly	7
Mayor-Lynn <i>et al</i> (34)	No	Amniocentesis	LT4	ia	70-100 $\mu\text{g/kg}$	Weekly	11
Francois <i>et al</i> (19)	No	Amniocentesis/ cordocentesis	LT4	ia	35-200	Weekly	10
Ribault <i>et al</i> (15) case 1	Yes	Cordocentesis	LT4	ia	300-400	Weekly	6
Ribault <i>et al</i> (15) case 2	No	Cordocentesis	LT4	ia	200	2 weeks	2
Ribault <i>et al</i> (15) case 3	No	Cordocentesis	LT4	ia	500	4 weeks	2
Ribault <i>et al</i> (15) case 4	Yes	Amniocentesis	LT4	ia	150	weekly	6
Ribault <i>et al</i> (15) case 5	No	Amniocentesis	LT4	ia	200-400	1-2 weeks	6
Ribault <i>et al</i> (15) case 6	No	Amniocentesis	LT4	ia	400	2 weeks	5
Ribault <i>et al</i> (15) case 7		Amniocentesis	LT4	ia	400	2 weeks	5
Ribault <i>et al</i> (15) case 8		Cordocentesis	LT4	ia	200	2 weeks	4
Ribault <i>et al</i> (15) case 9		Cordocentesis	LT4	ia	400-800	1-2 weeks	3

Ribault <i>et al</i> (15) case 10		Amniocentesis	LT4	ia	100-200	4 weeks	2
Ribault <i>et al</i> (15) case 11		Cordocentesis	LT4	ia	300	Single dose	1
Ribault <i>et al</i> (15) case 12			LT4	ia	250	Single dose	1
Stoppa-Vaucher <i>et al</i> (24)	Yes	Cordocentesis	LT4	ia	100/200	Daily/2 weeks	49/3
Stewart <i>et al</i> (21)	No	Cordocentesis/ amniocentesis	LT4	ia	120-300	1-2 weeks	5
Saini <i>et al</i> (35)	No	Cordocentesis	LT4	ia	no data	Weekly	5
Corbacioglu Esmer <i>et al</i> (36) case 1	Yes	Cordocentesis	LT4	ia	500	3 weeks	2
Corbacioglu Esmer <i>et al</i> (36) case 2	No	Cordocentesis	LT4	ia	500	2 weeks	7
Khamisi <i>et al</i> (37)	No	Cordocentesis	LT4	ia	5-10 µg/kg	7-10 days	9
Mastrolia <i>et al</i> (18)	Yes	amniocentesis	LT4	ia	150	Single dose	1
Taff (38)	No	Cordocentesis	LT4	ia	400-800	Weekly	15
Aubry <i>et al</i> (39)	No	Cordocentesis	LT4	ia	400	2 weeks	6
Vasudevan <i>et al</i> (16)	Yes	Amniocentesis	LT4/T3	ia	150/120	3 days	1/1
Figueiredo <i>et al</i> (17)	No	Amniocentesis	LT4	ia	300-400	10 days	2
Dębska <i>et al</i> (40)	Yes	Amniocentesis/ cordocentesis	LT4	ia/uv	230-500/20	No data	8
Bashari <i>et al</i> (41)	Yes	No data	LT4	ia	200-400	No data	6

ia, intraamniotic; uv, umbilical vein; LT4, levothyroxine; T3, triiodothyronine.

Table SII. Outcome, postpartum treatment and follow-up of fetal goiters conservatively treated *in utero*.

<b>Authors name</b>	<b>Postpartum goiter size</b>	<b>Levothyroxine substitution (<math>\mu\text{g}/\text{day}</math>)</b>	<b>Follow-up duration (months)</b>	<b>Follow-up results</b>
Sagot <i>et al</i> (20)	3.9 cm	10 $\mu\text{g}/\text{kg}/\text{day}$ .	24	Normal
Abuhamad <i>et al</i> (28)	Normal	25	9	No data
Grüner <i>et al</i> (12)	8.3 ml	50	32	Normal
Perrotin <i>et al</i> (10)	2.1 cm	25	30	Normal
Agrawal <i>et al</i> (23)	Enlarged	25	2	Normal
Morine <i>et al</i> (29)	Small goiter	50	6	Normal
Caron <i>et al</i> (30) case 1	3.2 cm	35	48	Normal
Caron <i>et al</i> (30) case 2	Not palpable	25	36	heterozygous mutations of the Tg gene Normal
Mirsaeid Ghazi <i>et al</i> (31)	3.5 ml	Yes	No data	heterozygous mutations of the Tg gene Absence of both femoral and tibial epiphyses, umbilical hernia
Simsek <i>et al</i> (32)	No data	50	24	Normal
Hanono <i>et al</i> (33)	Enlarged	25	15	Normal
Mayor-Lynn <i>et al</i> (34)	Slightly enlarged	37.5	3 weeks	Normal
Francois <i>et al</i> (19)	3 cm	40	9	Normal
Stoppa-Vaucher <i>et al</i> (24)	7.2 ml	Yes	7	Missense Tg mutation normal development
Stewart <i>et al</i> (21)	Minimally enlarged	25	6	Normal
Saini <i>et al</i> (35)	Slightly enlarged	50	No data	Normal
Corbacioglu Esmer <i>et al</i> (36) case 1	Small goiter	37.5	No data	Normal
Corbacioglu Esmer <i>et al</i> (36) case 2	Normal	No	6	Normal
Khamisi <i>et al</i> (37)	No data	Yes	36	Normal
Mastrolia <i>et al</i> (18)	Enlarged	50	3 weeks	Normal

Aubry <i>et al</i> (39)	Not palpable	25	12	Normal
Vasudevan <i>et al</i> (16)	No data	no	no	Deceased
Dębska <i>et al</i> (40)	Without goiter	15	12	heterozygous mutations of the Tg gene Normal
Figueiredo <i>et al</i> (17)	Enlarged	10 µg/kg/day.	72	Normal
Bashari H <i>et al</i> (41)	No data	Yes	No data	2 heterozygous mutations of the TPO gene. No data

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Tg, tireoglobulin; TPO, thyroperoxidase.