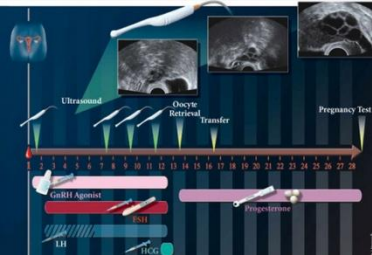


ĐÁNH GIÁ MỐI LIÊN QUAN

GIỮA THỜI GIAN KÍCH THÍCH BUỒNG TRỨNG VÀ TỶ LỆ CÓ THAI CỦA THỤ TINH TRONG ỐNG NGHIỆM

TS. BS Lê Hoàng, TS.BS. Nguyễn Thị Liên Hương

Trung tâm Hỗ trợ sinh sản Quốc Gia.



TỔNG QUAN

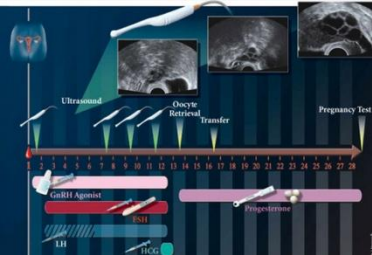
- 3 PĐ KTBT thông dụng trong IVF: PĐ dài, PĐ ngắn agonist, PĐ antagonist.
- Thời gian dùng thuốc gonadotropin thông dụng: 8-12 ngày.
- Sự phát triển của nang noãn:
 - Chu kỳ tự nhiên: 1-4 mm/ ngày, mean: 1,4mm/ngày.
 - Chu kỳ có KTBT: 1,7mm/ngày
- Chỉ định hCG: khi nang noãn đạt kích thước 16-22mm.
 - ≥ 3 nang 16mm.
 - ≥ 3 nang 18mm.

Thời gian ktbt có ảnh hưởng đến chất lượng noãn, phôi, tỷ lệ có thai như thế nào?



Chỉ định hCG ngày 8 có ảnh hưởng đến chất lượng noãn không? Niêm mạc tử cung sau đó có quá sớm để làm tổ?

Thời gian dùng thuốc dài ngày ảnh hưởng ntn đến chất lượng noãn và tỷ lệ có thai?



ĐỐI TƯỢNG VÀ PHƯƠNG PHÁP NGHIÊN CỨU

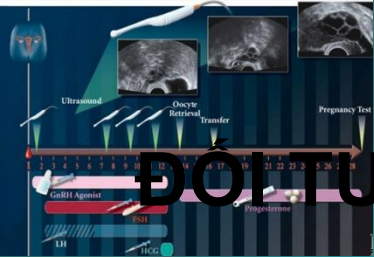
- Đối tượng:

Tất cả các chu kỳ IVF t/h tại trung tâm HTSSGG trong thời gian nghiên cứu từ 1/2015-8/2015.

- Thiết kế nghiên cứu: hồi cứu.

- Tiêu chuẩn lựa chọn:

- Tất cả các chu kỳ IVF chỉ định hCG vào ngày 8-12 dùng thuốc KTBT.
- Đủ thông tin nghiên cứu cho mục tiêu cần đánh giá.

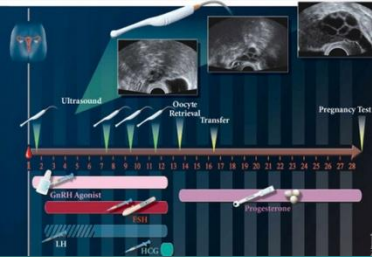


ĐỐI TƯỢNG VÀ PHƯƠNG PHÁP NGHIÊN CỨU

Cỡ mẫu: 3 mẫu nghiên cứu, mỗi mẫu chia 5 nhóm:

hCG ngày 8, 9, 10, 11, 12 KTBT với 3 mục tiêu chính:

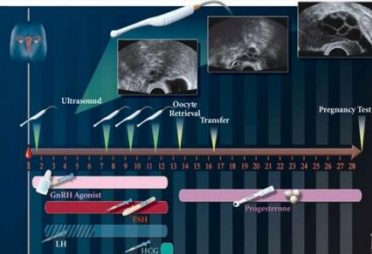
- Mẫu 1: Đánh giá chất lượng noãn, phôi: 2037 chu kỳ.
- Mẫu 2: Đánh giá tỷ lệ có thai: 1658 chu kỳ.
- Mẫu 3: Đánh giá tỷ lệ có thai của từng PĐKTBT thỏa mãn ĐK: tuổi \leq 40, NMTC 8-14mm, IVF thất bại \leq 3 chu kỳ, không có bất thường tử cung:
 - PĐ dài: 347 chu kỳ (chỉ chia 4 nhóm vì n nhóm N8=1).
 - PĐ antagonist: 617 chu kỳ.
 - PĐ ngắn agonist: 624 chu kỳ.



KẾT QUẢ

Bảng 1. Đặc điểm nguyên nhân vô sinh của các nhóm nghiên cứu

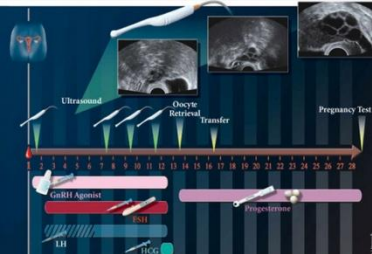
	NGAYKT					Total
	8	9	10	11	12	
do voi	46	260	270	105	23	704
	37.2%	33.2%	35.2%	33.6%	44.9%	34.6%
tt bat thuong	14	143	117	37	7	318
	11.5%	18.3%	15.2%	12.0%	12.3%	15.6%
khong ro nguyen nhan	55	330	330	144	18	877
	44.2%	42.1%	43.0%	46.2%	34.7%	43.0%
do ca 2 vo chong	7	29	35	21	1	93
	5.3%	3.7%	4.5%	6.8%	2.0%	4.5%
bat thuong TC	1	18	11	4	3	37
	.9%	2.3%	1.4%	1.4%	6.1%	1.8%
khac	0	3	2	0	0	5
	.0%	.4%	.3%	.0%	.0%	.3%
LNMTC	1	0	2	0	0	3
	.9%	.0%	.3%	.0%	.0%	.2%
Tổng	124	783	767	311	52	2037
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



KẾT QUẢ

Bảng 2. Đặc điểm loại vô sinh của các nhóm nghiên cứu

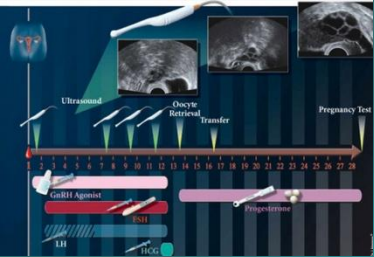
	NGAYKT					Tổng
	8	9	10	11	12	
vô sinh 1	59	410	394	169	31	1063
	47.2%	52.4%	51.4%	54.3%	59.6%	52.2%
vô sinh 2	65	373	373	142	21	974
	52.8%	47.6%	48.6%	45.7%	40.4%	47.8%
Total	124	783	767	311	52	2037
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



KẾT QUẢ

Bảng 3. Đặc điểm PD KTBT của các nhóm nghiên cứu

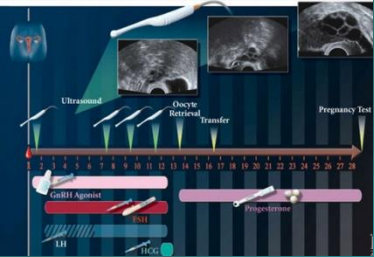
	NGAYKT					Total
	8	9	10	11	12	
PD dài	1	60	213	142	12	428
	.8%	7.6%	27.8%	45.5%	23.1%	21.0%
antagonist	51	360	345	110	22	879
	33.4%	45.9%	45.0%	35.5%	42.3%	43.1%
agonist	82	363	209	59	18	725
	65.8%	46.5%	27.2%	19.0%	34.6%	35.8%
Total	124	783	767	311	52	2037
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



KẾT QUẢ

Bảng 4. Các trường hợp không chuyển phôi của các nhóm nghiên cứu

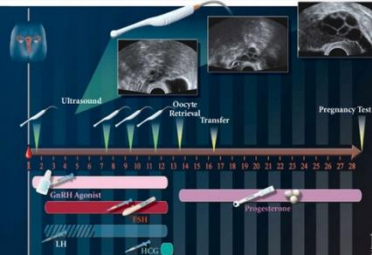
	NGAYKT					Total
	8	9	10	11	12	
Không có noãn	0	4	6	2	0	12
	.0%	.5%	.8%	.7%	.0%	.6%
Không có phôi chuyển	0	13	15	6	1	35
	.0%	1.7%	2.0%	2.0%	1.9%	1.7%
ĐPTB	15	103	117	53	7	295
	12.2%	13.2%	15.2%	17.0%	13.5%	14.5%



KẾT QUẢ

Bảng 5. Một số đặc điểm trước chọc hút noãn (OPU) của các nhóm nghiên cứu

NGAYKT	THOIGIANVS	TUOI	SOCKIVF	TONGLIEUFSH	Tổng
8	5.15 ± 3.89	32.98 ± 5.83	1.19 ± 0.57	1984.11 ± 749	124
9	5.44 ± 3.83	32.77 ± 5.47	1.28 ± 0.84	2111.12 ± 825	783
10	5.2 ± 3.68	32.25 ± 5.13	1.21 ± 0.64	2205.16 ± 861	767
11	5.49 ± 3.55	32.48 ± 5.2	1.25 ± 0.9	2359.73 ± 932	311
12	5.67 ± 3.76	32.52 ± 5.47	1.25 ± 0.59	2914.42 ± 1084	52
Total	5.35 ± 3.73	32.54 ± 5.33	1.25 ± 0.74	2197.25 ± 873	2037

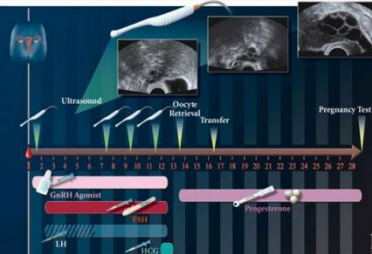


KẾT QUẢ

Bảng 6. Đặc điểm chất lượng noãn và phôi của các nhóm nghiên cứu

NGAYKT	TLNTRTHA	TLNNON	TLTHUTIN	TLTHHOA	TLPHTOT	SO NOAN	SO PHOI	SPCHUYEN	Tổng
8	0.85 ± 0.22	0.14 ± 0.22	0.89 ± 0.13	0.07 ± 0.14	0.65 ± 0.33	9.26 ± 6.18	5.98 ± 3.81	2.52 ± 1.23	124
9	0.79 ± 0.28	0.20 ± 0.28	0.88 ± 0.19	0.08 ± 0.14	0.7 ± 0.28	10.86 ± 6.53	7.12 ± 4.06	2.53 ± 1.27	783
10	0.81 ± 0.26	0.18 ± 0.26	0.89 ± 0.15	0.08 ± 0.15	0.72 ± 0.28	12,34 ± 6.77	8.2 ± 4.70	2.45 ± 1.25	767
11	0.76 ± 0.31	0.23 ± 0.31	0.89 ± 0.14	0.08 ± 0.14	0.7 ± 0.28	12.07 ± 7.11	7.85 ± 5.27	2.47 ± 1.54	311
12	0.78 ± 0.31	0.21 ± 0.31	0.89 ± 0.17	0.08 ± 0.16	0.74 ± 0.28	10.52 ± 7.00	6.85 ± 4.09	2.62 ± 1.28	52
Total	0.8 ± 0.28	0.19 ± 0.28	0.89 ± 0.16	0.08 ± 0.14	0.71 ± 0.28	11.5 ± 6.77	7.56 ± 4.73	2.49 ± 1.3	2037

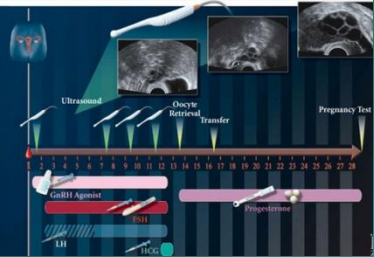
P tlrtha 8*11=0,008, tlnnon=0,007, p sonoan 8*9; 8*10; 8*11; 9*10; 9*11 <0,01, p sophoi 8*9 ; 8*10,; 8*11; 9*10;10*12<0,01



KẾT QUẢ

Bảng 7. Kết quả có thai của các nhóm nghiên cứu

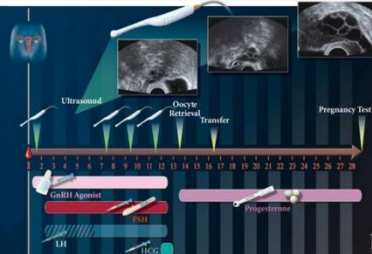
	NGAYKT					p
	8	9	10	11	12	
Không có thai	63	366	321	124	22	p> 0.05 (từng cặp) P8*11= 0.11
	60.0%	56.5%	51.9%	50.8%	52.4%	
Có thai	42	282	298	120	20	
	40.0%	43.5%	48.1%	49.2%	47.6%	
Total	105	648	619	244	42	
	100.0%	100.0%	100.0%	100.0%	100.0%	



KẾT QUẢ

Bảng 8. Kết quả có thai của các nhóm nghiên cứu dùng phác đồ dài

	NGAYKT				p
	9	10	11	12	
THAISH 0	20	77	52	4	> 0.05 P11,12= 0,78
	43.5%	44.3%	44.8%	36.4%	
1	26	97	64	7	
	56.5%	55.7%	55.2%	63.6%	
Total	46	174	116	11	

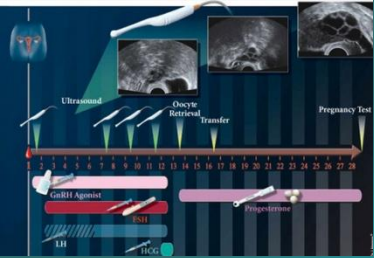


KẾT QUẢ

Bảng 9. Kết quả có thai của các nhóm nghiên cứu dùng phác đồ antagonist

THAISH	NGAYKT					p
	8	9	10	11	12	
0	14	123	114	37	8	> 0.05
	45.2%	47.9%	46.7%	55.2%	44.4%	
1	17	134	130	30	10	
	54.8%	52.1%	53.3%	44.8%	55.6%	
Total	31	257	244	67	18	
	100.0%	100.0%	100.0%	100.0%	100.0%	

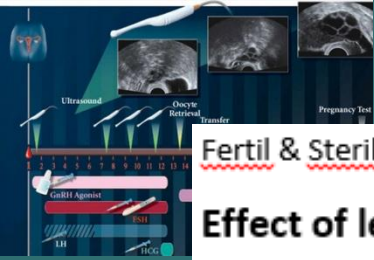
KẾT QUẢ



Bảng 10. Kết quả có thai của các nhóm nghiên cứu dùng phác đồ ngăn agonist

	NGAYKT					Total
	8	9	10	11	12	
Không có thai	47	211	120	27	10	P > 0.05 từng cặp P11,12=0.33
	66.2%	66.8%	67.4%	57.4%	83.3%	
Có thai	24	105	58	20	2	
	33.8%	33.2%	32.6%	42.6%	16.7%	
Total	71	316	178	47	12	
	100.0%	100.0%	100.0%	100.0%	100.0%	

CÁC NGHIÊN CỨU KHÁC



Fertil & Steril. [September 2003](#) Volume 80, Supplement 3, Pages 181–182

Effect of length of stimulation in ART cycles on pregnancy rate

[Kristen A. Ivani](#), [Louis N. Weckstein](#), [Denise M. Walker](#)

Objective: Past studies have suggested a negative impact of very long or very short stimulations on pregnancy rate in ART cycles. An excessively long cycle may suggest diminished ovarian reserve, and clinicians often are tempted to cancel these cycles prior to egg retrieval. A very short stimulation may be suboptimal for the development of a receptive endometrium. This study was undertaken to determine the impact of excessively long or short ovarian stimulation on pregnancy rates in ART cycles.

Design: Retrospective analysis of 2223 ART cycles from January 1998 – December 2002 in a private practice setting.

Materials and Methods: Cycles reviewed included all ART cycles in our center for patients under the age of 40, using their own eggs (excludes oocyte donation cycles). Clinical pregnancy rates per embryo transfer were calculated based on the number of days of ovarian stimulation prior to the day hCG was given. Approximately 65% of cycles were Lupron down regulation cycles, 20% were micro dose lupron flare, and 15% of cycles were antagonist cycles. Statistical analysis consisted of measures of association to explore the relationship between stimulation cycle length and pregnancy rates. Nominal logistic regression was also employed to examine the effect of stimulation on pregnancy rates.

Results: [Table 1](#) depicts the relationship between days of stimulation and pregnancy outcomes. As is apparent from [Table 1](#), there seems to be a natural decline of positive pregnancy outcomes once stimulation days exceed 11. From the likelihood ratio statistics (Chi-Square = 29.57, $p = 0.005$), it is apparent there is a strong linear relationship between stimulation days and pregnancy outcomes.

Conclusions: Cycle stimulation length of 6 – 11 days appeared to be optimal for best pregnancy rates. Surprisingly, very short cycle stimulation of 6 – 7 days was associated with good pregnancy rates. Though short stimulation lengths may not allow much time for endometrial development, patients who stimulate quickly usually have very good ovarian reserve, and thus embryo quality factors may be able to compensate for endometrial factors. Cycle stimulation lengths greater than 11 days are associated with lower pregnancy rates; however pregnancy rates were not unacceptable even with cycle stimulation lengths of up to 15 days. This data may be useful for clinicians faced with making decisions regarding canceling excessively short or long stimulation cycles.



Does length of ovarian stimulation affect IVF pregnancy and implantation rates?

M.P. Portmann, L.S. Morrison, D.R. Prinz, B. A. McGuirk, R.F. Feinberg, M.J. Tucker

Objective

To determine if day of hCG administration following controlled gonadotropin stimulation affects pregnancy and implantation rates in patients undergoing fresh, non-donor IVF and day 3 embryo transfer.

Design

Retrospective analysis of 154 fresh non-donor IVF cycles during a 16 month period. All cycle starts that occurred on a Friday with subsequent day 3 transfer were included in the study. Three groups were compared; transfers occurring on a Thursday or Friday (9 or 10 day med protocol); transfers occurring on a Saturday or Sunday (11 or 12 day med protocol); and transfers occurring on a Monday, Tuesday or Wednesday (13, 14 or 15 day treatment). All retrievals initiated prior to day 9 and after 15 days of drug treatment were excluded from the study. Pregnancy and implantation rates were compared between the groups using Chi Square Analysis.

Results

In the 148 cycles analyzed, 352 fresh embryos were AH and transferred (avg. 2.4 embryos/transfer), yielding a clinical implantation rate of 29% and PR of 54.7%. Significant differences in pregnancy and implantation rates were observed between the Sat/Sun and Mon/Tues/Wed transfer groups.

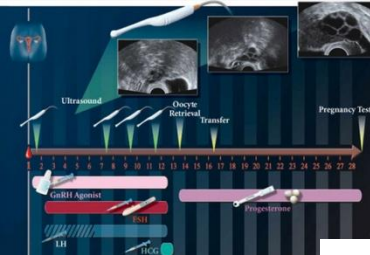
Conclusion

The observed differences between groups might suggest that optimally timed drug stimulation regimes could yield significant improvements in IVF pregnancy and implantation rates. Although endocrine and ultrasonographic information are useful in the determination of optimal HCG administration, they may not necessarily reflect appropriate nuclear and cytoplasmic maturational synchrony of the oocytes retrieved. In poor and hyper-responders, abnormally short and long treatment regimes may disrupt the delicate equilibrium of nuclear and cytoplasmic events within an oocyte, i.e. nuclear maturation that ultimately results in poor embryo development. A strike a balance between immature, mature, and post results in the form of better quality embryos. However (with patient compliance), reduced stress levels amongst clinicians ruled out as important prognostic factors.

Phân tích 148 chu kỳ IVF:

-SPL 11-12 ngày: chất lượng noãn, phôi, PR cao hơn so với SPL 13-15 ngày.

CÁC NGHIÊN CỨU KHÁC



Does the

Brie Alport, B.Sc.¹, /

Materials and Methods: Follicle transvaginal ultrasound (hCG) was a Oocytes under transferred on between SPL, 17.0; SPSS In

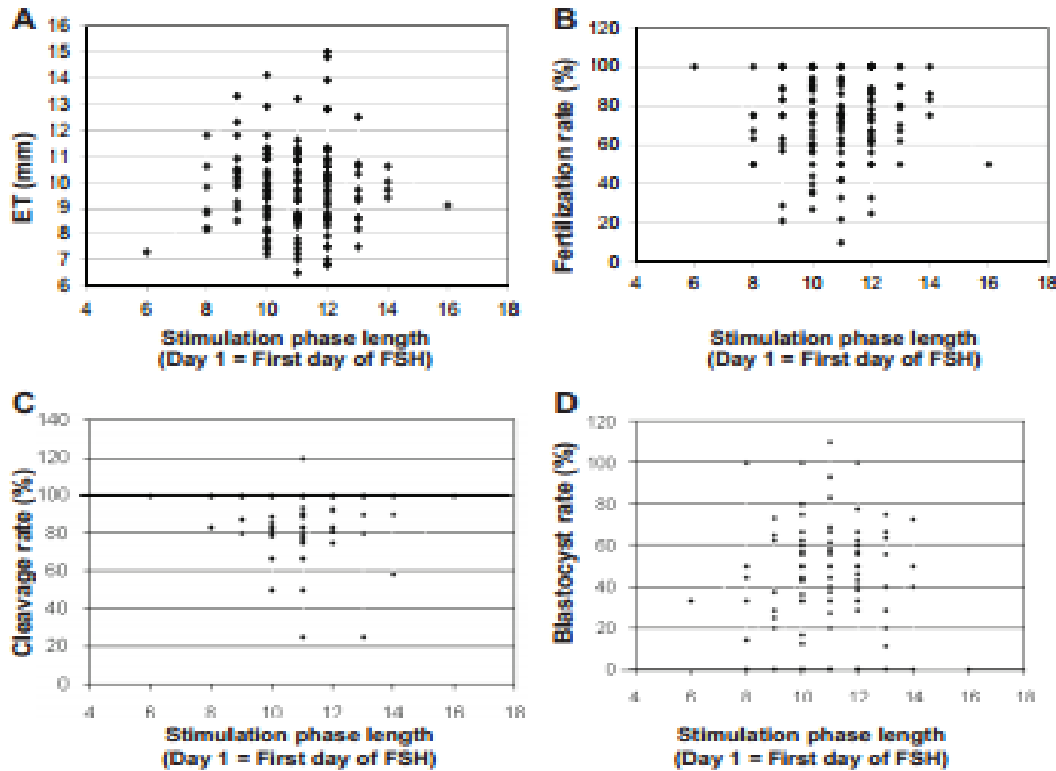


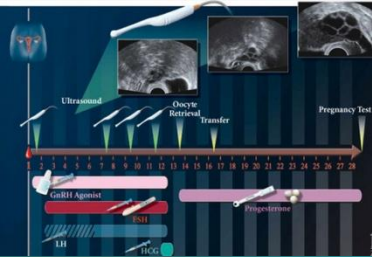
Fig 2: Associations between the stimulation phase length (SPL) and endometrial thickness (ET), fertilization rate (%), cleavage rate (%) and blastocyst rate (%). No regression lines are shown because no associations were detected.

Results: A SPL of 11 days was associated with an optimal number of follicles that developed to ≥ 6 mm, ≥ 10 mm and ≥ 15 mm; serum estradiol concentrations; and number of oocytes collected ($p < 0.05$). Gradual reductions in the number of developing follicles, serum estradiol concentrations and number of oocytes collected were observed as SPL increased. The mean SPL did not affect the number of follicles that developed to ≥ 6 mm, ≥ 10 mm and ≥ 15 mm, serum estradiol concentrations, number of oocytes collected, fertilization rate, cleavage rate, blastocyst rate, or clinical pregnancy rate. SPL did not affect the number of follicles that developed to ≥ 6 mm, ≥ 10 mm and ≥ 15 mm, serum estradiol concentrations, number of oocytes collected, fertilization rate, cleavage rate, blastocyst rate, or clinical pregnancy rate. SPL did not affect the number of follicles that developed to ≥ 6 mm, ≥ 10 mm and ≥ 15 mm, serum estradiol concentrations, number of oocytes collected, fertilization rate, cleavage rate, blastocyst rate, or clinical pregnancy rate. SPL did not affect the number of follicles that developed to ≥ 6 mm, ≥ 10 mm and ≥ 15 mm, serum estradiol concentrations, number of oocytes collected, fertilization rate, cleavage rate, blastocyst rate, or clinical pregnancy rate.

Số lượng noãn cao nhất khi SPL=11

SPL không ảnh hưởng đến niêm mạc, chất lượng phôi, tỷ lệ có thai

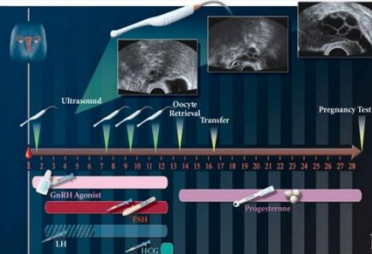
went using tropin hCG. ; were ations ersion



- M. Chuang et al. 2013: 794 CK

TABLE. Study characteristics by duration of gonadotropin stimulation

	<10 days, n=100	10-12 days, n=439	>12 days, n=160	P
Age, yrs	34.6 (4.5)	35.5 (4.3)	34.5 (4.2)	0.02
FSH, mIU/ml	7.6 (2.7)	7.7 (2.5)	8.0 (3.0)	0.48
Primary infertility, %	40.0	41.2	51.3	0.07
BMI, kg/m ²	26.2 (6.3)	25.4 (5.5)	26.1 (6.0)	0.39
Total dose of gonadotropins, IU	2401 (1188)	3031 (1581)	4319 (2065)	<0.01
Oocytes retrieved	11.3 (6.3)	12.8 (7.1)	11.7 (6.6)	0.06
Embryos transferred	2.6 (1)	2.6 (0.9)	2.5 (0.9)	0.59
Day 5 transfer, %	2.0	9.3	6.9	0.04
Clinical pregnancy, %	36.0	37.8	24.4	<0.01
Live Birth, %	30.0	30.3	18.8	0.02



DOES OVARIAN STIMULATION DURATION MAKE ANY DIFFERENCE ON PREGNANCY OUTCOMES IN POOR RESPONDER PATIENTS UNDERGOING IVF-ICSI CYCLES WITH GnRH ANTAGONIST PROTOCOL? F. Aybar,^a A. P. Cil,^a G. Batmaz,^b S. G. Temel,^c S. Kahraman.^a ^aAssisted Reproductive Technologies and Reproductive Genetics Center, Memorial Hospital, Istanbul, Sisli, Turkey; ^bObstetrics and Gynaecology, Bezmialem Vakif University, Istanbul, Fatih, Turkey; ^cDepartment of Histology & Embryology, University of Uludag, Faculty of Medicine, Bursa, Turkey.

OBJECTIVE: To determine whether stimulation duration affects IVF-ICSI outcomes in poor responder patients undergoing IVF-ICSI cycles with GnRH antagonist protocol.

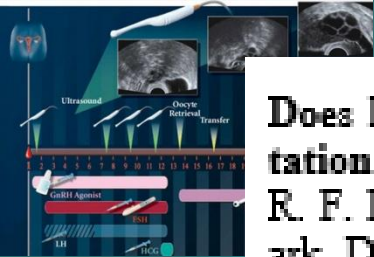
DESIGN: Retrospective data analysis.

MATERIALS AND METHODS: Totally 289 poor responder patients undergoing IVF-ICSI cycles with GnRH antagonist protocol from August 2011 to January 2013 were included. Patients were divided into 3 groups:

Comparison of success rates

	ER (n=48)	NR (n=157)	DR (n=84)	p- value	p value after adjustment
Age	36.5	36.2*	38.5*	0.001	
CPR(%)	32.5*	38**	19.7***	0.041	0.386
OPR(%)	25	30.2	19.7	0.297	0.901
MR(%)	23.1	22.4	0	0.188	
CR(%)	16.7	17.2	28.6	0.088	

*,** Indicates significant difference between groups.

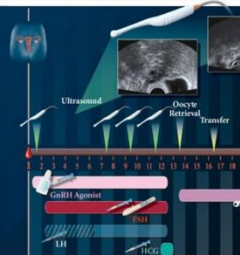


Does length of ovarian stimulation affect IVF pregnancy and implantation rates? M. P. Portmann, L. S. Morrison, D. R. Prinz, B. A. McGuirk, R. F. Feinberg, M. J. Tucker. Reproductive Associates of Delaware, Newark, DE; Georgia Reproductive Specialists, Atlanta, GA.

RESULTS:

<u>Day of Transfer</u>	<u>N</u>	<u>Mean Age</u>	<u>Pregnant</u>	<u>Implanted</u>	<u># Trans</u>	<u>Preg. Rate</u>	<u>Imp. Rate</u>
Thur / Fri (Day 9 or 10 Trigger)	43	35.2	22	30	103	51.2% ^{1,2}	29.1% ^{4,5}
Sat / Sun (Day 11 or 12 Trigger)	77	34.7	49	61	186	63.6% ^{1,3}	32.8% ^{4,6}
Mon/Tues/Wed (Day 13, 14 or 15 Trigger)	28	35.6	10	11	63	35.7% ^{2,3}	17.5% ^{1,6}
Totals	148	35.2	81	102	352	54.7%	29.0%
						Th/Fr vs Sa/Su ¹ p = 0.1825	⁴ p = 0.2461
						Th/Fr vs Mo/Tu/We ² p = 0.2011	⁵ p = 0.0723
						Sa/Su vs Mo/Tu/We ³ p = 0.0108	⁶ p = 0.0033

OB/GYN) under abdominal ultrasound guidance and performed by the same



Ovarian stimulation in in vitro fertilization with or without the “long” gonadotropin-releasing hormone agonist protocol: effect on cycle duration and outcome

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Objective: To study the correlation between stimulation duration of IVF cycles, with and without GnRH agonist (GnRH-a), and cycle outcome.

Design: Retrospective analysis of data.

Setting: University-affiliated IVF clinic.

Patient(s): 998 IVF cycles in which long GnRH-a protocol was used, and 155 cycles with hMG only.

Intervention(s): IVF cycles.

Main Outcome Measure(s): Cycle outcome in number of oocytes and embryos, and pregnancy rate.

Result(s): The mean stimulation duration (\pm SD) was 9.6 ± 1.7 and 6.7 ± 1.0 for the GnRH-a and the hMG-only cycles, respectively ($P < 0.01$). In the GnRH-a group, no statistically significant correlation between cycle duration and pregnancy rate was found. Interestingly, the patients treated for 9 days had the highest number of oocytes retrieved and the highest pregnancy rate. Stimulation duration was not affected by age in either protocol. GnRH-a cycles yielded a significantly higher number of oocytes and embryos compared to cycles without GnRH-a. The pregnancy rate was similar in both groups.



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Prolonged gonadotropin stimulation for assisted reproductive technology cycles is associated with decreased pregnancy rates for all women except for women with polycystic ovary syndrome

Amanda Ryan, [Shunping Wang](#), [Ruben Alvero](#), [Alex J Polotsky](#)

Abstract

Purpose

To determine if etiology of infertility modifies the relationship between the duration of ovarian stimulation and success during assisted reproductive technology (ART) cycles.

Methods

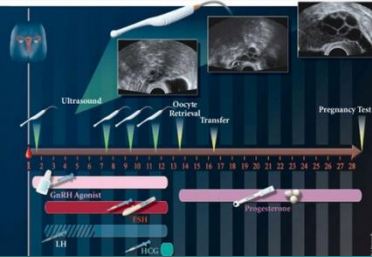
A prospectively collected database was analyzed in an academic infertility practice. Eight hundred and twelve infertile women undergoing their initial fresh embryo, non-donor in vitro fertilization (IVF) or [Intracytoplasmic Sperm Injection \(ICSI\)](#) cycle between January 1999 and December 2010 were evaluated. Clinical pregnancy was the main outcome measured.

Results

Out of 663 cycles resulting in oocyte retrieval, 299 produced a clinical pregnancy (45.1%). Women who achieved a clinical pregnancy had a significantly shorter stimulation length (11.9 vs. 12.1 days, $p=0.047$). Polycystic ovary syndrome (PCOS) was the only etiology of infertility that was significantly associated with a higher chance for clinical pregnancy and was a significant confounder for the association of duration and success of treatment. Women with 13 days or longer of stimulation had a 34 % lower chance of clinical pregnancy as compared to those who had a shorter [cycle](#) (OR 0.66, 95% CI:0.46-0.95) after adjustment for age, ovarian reserve, number of oocytes retrieved, embryos transferred and PCOS diagnosis.

Conclusion

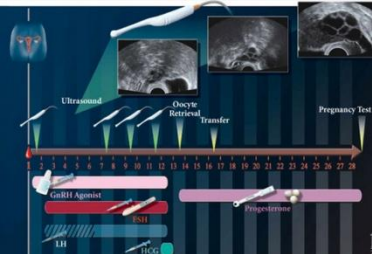
Prolonged duration of stimulation is associated with decreased ART success for all couples, except for women with PCOS.



Protocols for COS: GnRH Antagonists vs Agonists

POOR RESPONDERS			
14 RCT (1127 patients); Pu et al. 2011			
Duration of stimulation	Oocytes retrieved	Cycle cancellation	CPR
-1.9 days (-3.6; -0.12)	-0.17 (-2.42; -0.66)	1.01 (0.71; 1.42)	1.23 (0.92, 1.66)

Lainas *et al.* Hum Reprod. 2010;25:683; Pu D *et al.* Hum Reprod. 2011; 26: 2742.



KẾT LUẬN

- Chỉ định hCG ngày 8 không ảnh hưởng đến chất lượng noãn, phôi, tỷ lệ có thai so với chỉ định hCG ngày 9-12.
- Số lượng noãn, phôi chỉ định hCG ngày 8 ít hơn có ý nghĩa thống kê so với các nhóm khác.
- Số lượng noãn, phôi chỉ định hCG ngày 10,11 nhiều hơn có ý nghĩa thống kê so với các nhóm khác.