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PP-101

Severe ovarian hyperstimulation despite prophylactic albumin administration at the time of oocyte retrieval in a cycle of controlled ovarian hyperstimulation.

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Objective: To report the occurrence of two cases of severe ovarian hyperstimulation (OHSS) despite the administration of 30 grams intravenous albumin at the time of oocyte retrieval. Two previous reports involving 12 patients did not describe a single case of OHSS in patients receiving prophylactic intravenous albumin. We describe the experience at our institution where two patients were hospitalized with severe OHSS despite receiving prophylactic albumin therapy.

Design: Twelve consecutive patients undergoing a cycle of controlled ovarian hyperstimulation for IVF with peak estradiol greater than 4500 pg/ml received 30 grams intravenous albumin (200 ml of a 23/4 albumin solution) at the time of oocyte retrieval. Two patients developed OHSS despite prophylactic albumin administration.

Setting: The Division of Reproductive Endocrinology at the MS Sinai Medical Center, New York.

Interventions: 30 grams intravenous albumin was administered over 30 minutes at the time of oocyte retrieval.

Main outcome measures: Outcome measures included the accumulation of intrafollicular fluid such as ascites, pleural effusions, and generalized edema. The other outcome variables included degree of bone marrow, renal insufficiency, and thoracic complications.

Results: Two patients developed severe OHSS, requiring hospitalization, despite administration of intravenous albumin. The peak estradiol of the two patients were 4993 and 7180 pg/ml. Both patients experienced shortness of breath, pleural effusion, ovarian enlargement, ascites, and bone marrow suppression. This is the first report in our knowledge, where administration of prophylactic albumin failed to prevent severe OHSS. It is important to report negative as well as positive outcomes to evaluate the use of albumin as a prophylactic agent. The true efficacy of this agent needs to be evaluated in a prospective randomized fashion.

Conclusion: Due to the small sample size, the differences were not statistically significant. However, the results suggest that Progesterone is at least as potent as hMG.

PP-102

LOW DOSES OF HUMAN MENOPAUSAL CONAUGSTRING WITH CLomiPHENE CITRATE IN IVF PROGRAM

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We conducted 120 cycles of the controlled superovulation (COS) of 106 women selected for IVF program. The mean age of women was 30-6 years. The average duration of infertility was 7-9 years. 33% of women had a primary infertility and 45% had a secondary infertility. The follicular fluid was the main reason of IVF treatment. The COS was with combination of clomiphene citrate (100 mg/2.30 mg/day) during 7-9 days with hMG (Personal). Serum was during the 2-3 day of cycle every second day 2-5 amiloride. 13% of women had a response to the treatment and 35% of patients were taken off the program because of the absence of egg's cleavage. The final phases was observed, the incidence of this complication was 17.5% which is much lower than the mean dose in accordance with the majority of the European IVF groups reports. In the phase of follicles was 2-6 mm per 1 cycle and 3-6 mm were received. A visual control was determined that 75% of eggs were mature. 2-5 mm were degenerated. Fertilization rate was 40-50%. The dominant's embryo transfer was made to 9 patients and 11 patients were taken off the program because of the absence of eggs' cleavage. The final phase was observed, the incidence of this complication was 17.5% which is much lower than the mean dose in accordance with the majority of the European IVF groups reports但对于在 vitro fertilization and embryo transfer (IVF-ET). In order to reduce the incidence of this complication, we introduced several prophylactic strategies since October 1992. These strategies included (a) individual adjustment of a daily dose of hMG to young patients, (b) one day earlier injection of hCG when a large number of growing follicles was observed, (c) cancellation of hCG administration in the patients with a remarkably large number of growing follicles, (d) use of pure FSH, instead of hMG, in patients with polycystic ovarian syndrome. The results of IVF-ET before and after the introduction of these strategies were compared (864 cycles during the period from October 1988 to September 1992, Phase I, versus 649 cycles from October 1992 to July 1994, Phase II). Incidence of severe OHSS was remarkably decreased from Phase I to Phase II (3.4 versus 0.6%, p<0.001). Although the number of recovered oocytes in the Phase II was significantly lower than that in the Phase I (6.6±4.6 versus 7.0±5.3, p<0.001, mean±SD), pregnancy rates did not differ between the two phases (23.3 versus 24.0%). We concluded that intensive prophylaxis of OHSS did not affect pregnancy rate of IVF-ET.

PP-103

A COMPARISON OF RECOMBINANT HUMAN FSH (PUREGON) AND hMG IN IVF CYCLES


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The effect of intramuscular (IM) recombinant human FSH (Puregon) administration on follicular development and hormonal profiles in IVF cycles was investigated in comparison with IM hMG treatment in a randomized study, using a fixed dosing scheme. Thirteen IVF patients fulfilling strict selection criteria were included. Seven patients were treated with hMG and six patients with Puregon, in both groups in combination with GnRH-agonist (buserelin) treatment. 150 IU hMG or Puregon were injected once daily. During the stimulation phase, daily blood samples were taken to determine FSH, LH, oestradiol (E2) and progesterone concentrations, and vaginal ultrasonography was performed at least every other day. When the mean diameter of the largest follicle was 20 mm and the endometrial thickness was 9 mm, hCG was administered. The luteal phase was supplemented by progesterone.

Results:

Median numbers of follicles, FSH and E2 levels at the day of hCG administration and numbers of retrieved oocytes are listed in the table.

<table>
<thead>
<tr>
<th>hMG</th>
<th>Puregon</th>
</tr>
</thead>
<tbody>
<tr>
<td>N foll &gt;10 mm</td>
<td>12</td>
</tr>
<tr>
<td>N foll &gt;15 mm</td>
<td>8</td>
</tr>
<tr>
<td>FSH (IU/l)</td>
<td>6.8</td>
</tr>
<tr>
<td>E2 (pmol/l)</td>
<td>6100</td>
</tr>
<tr>
<td>N oocytes</td>
<td>7</td>
</tr>
</tbody>
</table>

Conclusion: Due to the small sample size, the differences were not statistically significant. However, the results suggest that Puregon is at least as potent as hMG.