Gestational Trophoblastic Disease - A Review

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Summary

Total 42 cases of gestational trophoblastic tumour (G.T.T.) were studied. The incidence of H. Mole was Lin 460, and that of choriocarcinoma was 1 in 3225 pregnancies. Out of a total of 16083 pregnancies, complete moles were 3 times more common than partial mole. The incidence of G.T.D. was found highest in the age group of 20-29 years, 60% of the cases of choriocarcinoma followed a molar pregnancy, 20% followed an abortion and 20% a full term pregnancy. H. Mole cases were mostly treated by S/L and tollowed up. 7 cases received chemotherapy. 2 cases for residual disease were treated with methotrexate and Folinic Acid (F.A.) and 5 cases with combined chemotherapy by Methotrexate, Actinomycin D, cyclophosphamide (M.A.C.) (2 cases) and Etoposide, Methotrexate, Actinomycin-D, Cyclophosphamide, Oncovin (Vincristine) (EMA-CO) regime (3 cases). The response and tolerance to EMA-CO was better than MAC. Only one patient required hysterectomy during MAC therapy due to severe haemorrhage. She later expired and that was the only death in our study.

Introduction

Over the last 30 years major advances has taken place in our understanding and management of gestational teophoblastic disease (G.T.D.). It is now possible to diagnose a molar pregnancy by U.S.G. quickly and confidently, to prevent the occurrence of metastatic sequelae in the majority of cases with mole and to achieve a high remission rate in those with metastatic disease.

Material and Methods:

The present study was done among the patients admitted in the gynaecology department of N.R.S. Medical College and Hospital, Calcutta, for a period of 1 ½ years (July'97 to Dec'98). Total 42 cases were studied, and during this period patients were admitted with either pregnancy or its complications. All patients were evaluated by history, clinical examination, U.S.G. serum b hCG and X-ray chest. The b hCG, being the singlemost important marker of trophoblastic disease, it will probably remain the mainstay in the diagnosis and management of trophoblastic disease.

All patients were treated by resuscitation, it necessary, evacuation of mole, chemotherapy when required. All of them were followed up regularly with advice to avoid pregnancy.

Results And Analysis:

Total cases of G.T.D. were 42 and total number of pregnancy episodes were 16,083. The incidence of H. mole was 1 in 460 pregnancies, while incidence of choriocarcinoma was 1 in 3225 pregnancies in the present study. H. Mole constituted 83.33% of the cases and G. I. I.

16.67% (Table-I). The number of cases with complete mole was almost 3 times that of the partial mole. 42.9% cases were in the age group of 20-29, and the rest equally divided between the other 3 age groups (Table - II). 60% of the cases of choricarcinoma developed after a molar pregnancy while other 40% developed following abortion and full term pregnancy (Table - III). Bleeding P/V after a period of amenorrhoea was the commonest presenting symptom (Table - IV) in 88.6% cases. Some of these cases were admitted as missed or threatened abortion, but subsequently diagnosed as molar pregnancy by U.S.G. 28.6% presented with mole already in the process of expulsion, while 22.8% presented with hyperemesis. Very few cases presented with tremor anxiety, tachycardia, weight loss and respiratory distress. In patients having metastasis, metastasis to lungs was found in 80% cases and in the vagina in 20%. There were no cases of liver and C.N.S. metastasis (Table - V). Out of 35 cases with molar pregnancies, 26 were treated with suction evacuation. 5 of them were given prior intracervical progstaglandin for ripening of cervix. The other 9 cases, either in process of expulsion or incomplete mole, had D/E operation (Table - VI). 16.7% of cases received chemotherapy, 5 for chorio-carcinoma and 2 for residual disease. Out of 7 patients who received chemotherapy, 2 underwent laparotomy. One due to sudden severe bleeding P/V in a patient was already on chemotherapy, another due to torsion of theca lutein cyst. Two patients were treated with Methotrexate + F.A. on alternate day. Other 5 cases were treated by combined chemotherapy as M.A.C. regime in two cases and EMA-CO regime in 3 cases (Table-VII). Patient's tolerance were better and side effects were much less in patients receiving EMA-CO., as compared to those receiving M.A.C. regime. Maternal mortality in the present study was 2.3% (Table-VIII). Death occurred in a case of choriocarcinoma due to severe uncontrolled haemorrhage during chemotherapy.

Table - I
Distribution of the cases according to their cause

	Cases	No. of Cases	%	Incidence (Per
		[n=]		thousand pregnancies]
Α.	Hydatiform mole	35 [n=42]	83.33	1 in 460
	[i]Complete mole	26 [n=35]	74.3	1 in 625
	[ii]Partial mole	9 [n-35]	25.7	1 in 1818
В.	G.T.T.	7[N=42]	16.67	1 in 2326
	[i]lnvasive mole	-[n=7]	-	-
	[ii] Choriocarcinoma	5 [n=7]	71.42	1 in 3225
	[iii] PSTT	-[Nil]	-	-
	[iv] R.T.D.	2 [N=7]	28.58	1 in 8062

Table - II

Distribution of cases according to age
Incidence [n=42]

Age	H.Mole	Chorico CA	RTD	Total	Percentage
< 19 yrs.	9	1	1	1()	23.8
20-29 yrs.	15	2	1	18	42.9
30-39 yrs.	4	1	1	6	14.3
> 40 yrs.	7	1		8	19
Total	15	5	2	42	1()()

Table - III

An analysis of the different pregnancy events leading to choriocarcinoma

Pregnancy event leading to choriocarcinoma	No. of cases [n=7]	Percentage
Post Molar	3	60
Post abortion	1	20
Post full term pregnancy	1	20
Following unknown	-	-
pregnancy		
Total	5	1()()

Table - IV A Comparison of the presenting symptoms in cases of H. Mole

Symptoms	No. of cases [n=35]	Percentage
Bleeding p/v	31	88.6
Passage of grape like vesicles	9	25.7
Hyperemesis	8	22.8
Symptom of hyperthyroidism	1	2.8
Pain abdomen	12	34.3
Fever	1	2.8
Respiratory distress	2	5.7
Convulsions	1	2.8

Table - V Metastasis in the cases with choriocarcinoma

Site of Metastasis	No. of cases [n=5]	Percentage	
A] Lungs	4	80%	
Chest pain	2		
Cough	4		
Hemoptysis	2		
Dyspnoea	4		
Positive findings on	3		
CXR			
B] Vagina	1	20%	
C] Liver			
D] CNS			

Table - VI A Comparison of the different modes of treatment used

Treati	ment given	No. of cases [n=42]	Percentage
1. Suc	ction Evacuation	26	61.9
2. Dila	atation and Evacuation	9	21.4
3. Chemotherapy		7	16.7
	parotomy		
a)	Hysterectomy	1	
b)	Marsupialisation of twisted	1	4.8
	ovarian cyst		

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