

Introduction

In NSW there is no gestational trophoblastic diseases (GTD) registry as there is in other Australian states. A registry ensures best-practice guidelines are followed, data is collected for research, and expertise is readily available for complex cases.

In the absence of a state-wide registry, since 2014 our NSW metropolitan-located Gynae-Oncology unit has a dedicated GTD service managed by a Nurse Practitioner and Gynae-Oncologist, the purpose of which is to provide standardised expert care.

Objectives

The overall goal was to obtain information regarding the functioning of our service as well as to inform expectations for women newly diagnosed with a molar pregnancy

Results

Type of molar pregnancy	Average age (years)	Referral location	Progression to GTN
Partial molar (n=78)	33	Local Tertiary Hospital = 68 Private Gynaecologist = 7 Outside of LHD ¹ = 3	5 / 78 (6.4%)
Complete molar (n=99)	35	Local Tertiary Hospital = 80 Private Specialist = 10 Outside of LHD ¹ = 9	23 / 99 (24%)

Age, referral location and progression x type of molar pregnancy

	Molar pregnancy	Molar pregnancy progressing to GTN	Statistical significance
Average bHCG level (IU/mL) at time of curettage (n=86)	129,858 (n=67)	266,417 (n=19)	P=0.02
Average age (years) (n=168)	34 (n=140)	36 (n=28)	P=0.5

Average age and bHCG at time of curette and risk of progression to gestational neoplasia.

	WHO Score	FIGO Stage	Chemotherapy type	Survival
GTN treated with chemotherapy (n=27)	0-6 = 26 ≥7 = 1	I = 23 II = 0 III = 4	<u>First line = 22:</u> - Methotrexate = 20 - EMA-CO ⁴ = 1 - Actinomycin-D = 1 <u>Second line = 5:</u> - Actinomycin-D = 4 - EMA-CO = 1	100%

Characteristics of patients diagnosed with GTN

Methods

A retrospective review of electronic medical records spanning ten years (01/01/2014 to 01/01/2024) was conducted for women with molar pregnancies and molar-pregnancy-associated GTN at the specialised centre. Data were securely stored in REDCap.

Conclusions

The centre achieved commendable performance indicators, including completion rates and timely initiation of chemotherapy.

Higher bHCG levels at the time of curettage diagnosis correlated with a higher risk of GTN progression.

The study underscores the importance of collaborative efforts and the creation of a state-based registry in NSW to facilitate future research on surveillance de-escalation and optimal chemotherapy regimens for intermediate-risk GTN.

"The study highlights the importance of collaborative efforts and the creation of a state-based GTD registry in NSW..."

References

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