

INTEGRATION OF PATIENT REPORTED OUTCOMES (PRO) IN NEUROENDOCRINE TUMORS CARE: AN ASSESSMENT OF COGNITIVE AND PSYCHOLOGICAL SCREENING TOOLS DURING FOLLOW-UP

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SUSAN LESLIE CLINIC FOR
NEUROENDOCRINE TUMOURS

 **Sunnybrook**
ODETTE CANCER CENTRE

BACKGROUND

- **Global NETs Patient Survey** highlighted **unmet needs**: emotional distress and quality of life issues, but relied on **subjective** assessments using non-validated tools;
- Unique potential **impact of NETs on psyche** due to hormonal secretion, hypothesized through tryptophan deficiency
- **Limited knowledge** on burden of neuropsychological symptoms, impact on quality of life, course over time, how to screen and address them.

OBJECTIVE

To assess the burden of neuropsychological symptoms in NETs using validated PROs.

CONCLUSION

Validated tools during maintenance therapy for NETs indicated:

- **High prevalence of unsuspected signs of clinical depression** (1 out of 5 patients)
- Perceived **cognitive impairment**
- Despite controlled symptoms, there is patient-reported **impact on social functioning** in the cognitive and quality of life domains.

This provides insights into solutions to **improve patient-centred care** for NETs:

- Routine **screening** for neuro-psychological and cognitive disturbances
- Tailor early **support**
- Address unmet needs for NETs patients and improve longitudinal care

METHODS



RESULTS



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M E T H O D S

Prospective observational cohort study

Population:

>= 18 years old

Bronchopulmonary or gastro-entero-pancreatic NETs

Intervention:

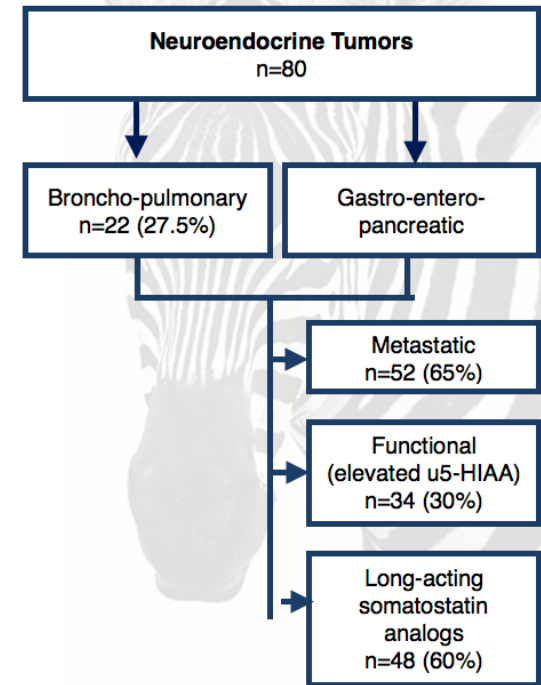
Phone interviews - administration of validated tools
Beck Depression Inventory - version 2 (BDI-II)
Functional Assessment of Cancer Treatment Cognitive Domain (FACT-Cog)
EORTC QLQ-C30 and GEPNET21
Preference for psycho-social support: single multiple choice question (Likert scale)

Analysis:

Descriptive: median scores and proportion of score severity

Preliminary exploratory analysis: 2 months

Flow diagram of patient identification

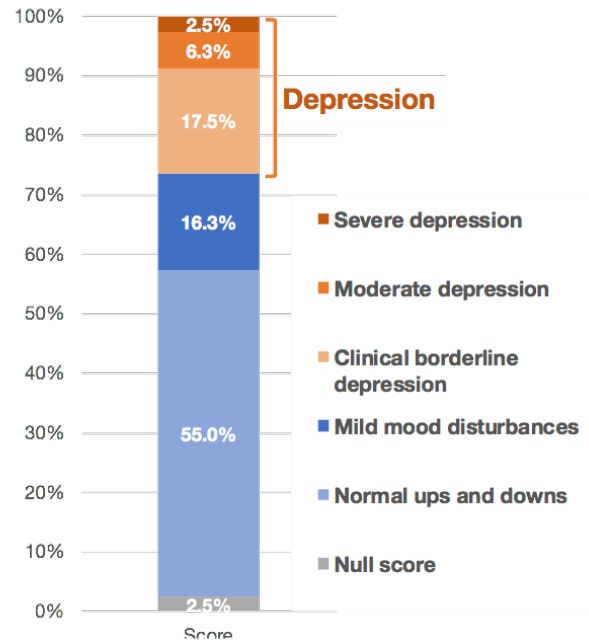


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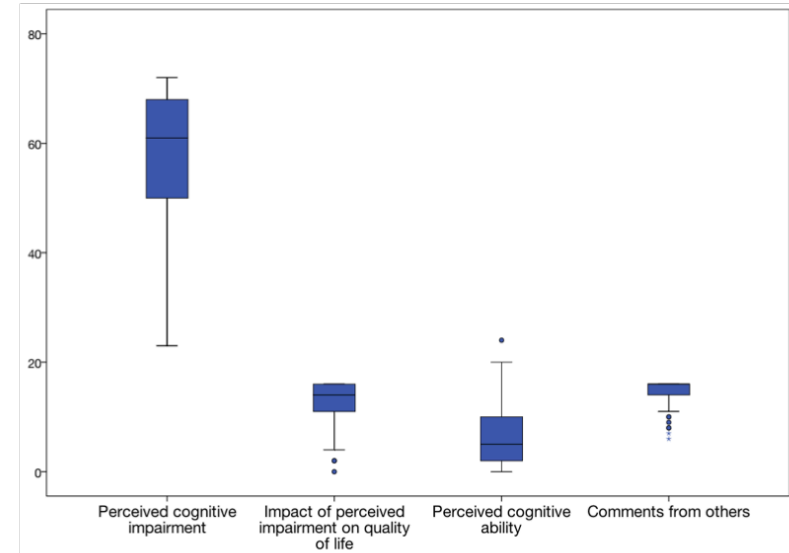
Beck Depression Inventory

- Assesses **depression**
- Validated for use in cancer patients: screening and case finding



FACT-Cog

- Assesses **cognitive impairment**
- Validated for use in cancer patients and survivors



Median	61	14	5	16
IQR	50-68	11-16	2-10	14-16
Possible range	0-72	0-16	0-28	0-16

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Quality of life: EORTC QLQ-C30 and GEPNET21

- ▶ **EORTC QLQ C30**: validated for use in cancer patients
- ▶ **EORTC GEPNET21**: supplement to the QLQ-C30 asking NET-specific questions, validated in NET populations

	Median	IQR	Comparison to general population	
Quality of life (from lowest - 0 to highest -100)	Overall	83.3	66.7-91.7	Similar
	Physical domain	86.7	76.7-100	Worse
	Role domain	91.7	66.7-100	Worse
	Emotional domain	83.3	58.3-93.7	Similar
	Cognitive domain	83.3	66.7-100	Worse
	Social domain	83.3	66.7-100	Worse
	Fatigue	33.3	11.1-47.2	Worse
Symptoms (from mildest -0 to severe - 100)	Nausea	0	0-16.7	Similar
	Pain	0	0-33.3	Similar
	Dyspnea	33.3	0-66.7	Worse
	Insomnia	33.3	0-66.7	Worse
	Appetite	0	0-8.3	Similar
	Constipation	0	0-33.3	Similar
	Diarrhea	0	0-33.3	Similar
	Financial burden	0	0-33.3	Similar

Preference for psycho-social support

