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ANNEXES

DU MEMOIRE

En vue de l'obtention du
Certificat de Capacité d'Orthophoniste
présenté par

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**Évaluation de l'IOPI, système de mesure de
pression de la langue, pour prédire les troubles de
la déglutition dans la myasthénie auto-immune
Étude rétrospective**

MEMOIRE dirigé par
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Lille – 2023

Annexe A1 : Score MG-ADL

► Myasthenia Gravis Activities of Daily Living (MG-ADL)

Your generalized Myasthenia Gravis symptoms can vary from day to day. Painting a clear picture of how they affect you over time is the best way that you and your doctor can ensure that you receive the best care possible. This assessment tool allows you to measure the symptoms that most affect your daily living. Fill out this form with your doctor.

- Form should take just 10 minutes to complete
- Simply give yourself a score (from 0-3) for each activity listed and add the results
- Complete form twice per year or as instructed by your doctor

Estimated time to complete: about 10 minutes

	0=Normal	1	2	3=Most severe	
Talking	Normal	Intermittent slurring or nasal speech	Constant slurring or nasal speech, but can be understood	Difficult-to-understand speech	<input type="text"/>
Chewing	Normal	Fatigue with solid food	Fatigue with soft food	Gastric tube	<input type="text"/>
Swallowing	Normal	Rare episode of choking	Frequent choking necessitating changes in diet	Gastric tube	<input type="text"/>
Breathing	Normal	Shortness of breath with exertion	Shortness of breath at rest	Ventilator dependence	<input type="text"/>
Impairment of ability to brush teeth or comb hair	None	Extra effort, but no rest periods needed	Rest periods needed	Cannot do one of these functions	<input type="text"/>
Impairment of ability to arise from a chair	None	Mild, sometimes uses arms	Moderate, always uses arms	Severe, requires assistance	<input type="text"/>
Double vision	None	Occurs, but not daily	Daily, but not constant	Constant	<input type="text"/>
Eyelid droop	None	Occurs, but not daily	Daily, but not constant	Constant	<input type="text"/>

Patient name: _____

Total score

Date of birth: ____ / ____ / ____

Date: ____ / ____ / ____

(out of 24)

Medical record number: _____

Time of day completed: _____

MG-ADL assessment adapted from www.myasthenia.org/HealthProfessionals/EducationalMaterials.aspx. The information on this page is intended as educational information for patients and their healthcare providers. It does not replace a healthcare provider's independent medical judgment or clinical diagnosis.



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Annexe A2 : Score myasthénique de Garches

- **Barré** (10 secondes = 1 point) :
max. 2 min 30 : 15.
- **Mingazzini** (5 secondes = 1 point) :
max. 75 s : 15.
- **Flexion de la tête** :
Contre appui : 10; sans appui : 5; impossible : 0.
- **Relever de la position couchée** :
Sans appui : 10; avec aide : 5; impossible : 0.
- **Oculomotricité** :
Normale : 10; ptosis isolé : 5; diplopie : 0.
- **Occlusion palpébrale** :
Complète : 10; incomplète : 5; nulle : 0.
- **Mastication** :
Normale : 10; faible : 5; nulle : 0.
- **Déglutition** :
Normale : 10 ; dysphagie sans fausse route : 5 ; fausses routes : 0.
- **Phonation** :
Voix normale : 10; voix nasonnée : 5; aphonie : 0.
Max : 100 points.

Annexe A3 : Test d'indépendance

Test d'indépendance entre les diverses variables et la présence de troubles de la déglutition

Independent Samples T-Test ▼				
	Test	Statistic	df	p
AGE	Student	-0.182	28	0.857
	Mann-Whitney	59.000		0.867
MAX FEV (L)	Student	1.048	28	0.303
	Mann-Whitney	79.000		0.323
FEV MAX-MIN (L)	Student	NaN ^a		
	Mann-Whitney	NaN ^a		
FEV (%)	Student	2.335	9	0.044
	Mann-Whitney	24.500		0.058
DEP MAX (/min)	Student	1.201	28	0.240
	Mann-Whitney	83.000		0.266
DEP MAX-MIN (L/min)	Student	0.304	27	0.763
	Mann-Whitney	59.000		0.977
DEP (%)	Student	2.649	13	0.020
	Mann-Whitney	38.000		0.042
CVF MAX (L)	Student	1.220	26	0.233
	Mann-Whitney	78.000		0.196
CVF MAX -MIN(L)	Student	-0.680	25	0.502
	Mann-Whitney	49.000		0.529
CVF (%)	Student	1.234	15	0.236
	Mann-Whitney	37.500		0.212
LANGUE ANT MAX (Kpa)	Student	2.520	28	0.018
	Mann-Whitney	100.500		0.037
LANGUE ANT F MAX-MIN	Student	-0.297	28	0.768
	Mann-Whitney	54.000		0.655
LANGUE ANT E (s)	Student	0.387	28	0.701
	Mann-Whitney	80.500		0.328
LANGUE POST MAX (Kpa)	Student	2.794	28	0.009
	Mann-Whitney	104.000		0.022
LANGUE POST MAX-MIN	Student	-0.024	28	0.981
	Mann-Whitney	60.500		0.933
LANGUE POST E (s)	Student	0.229	27	0.820
	Mann-Whitney	45.500		0.800
VERRE D'EAU (s) 175mL	Student	-5.008	26	< .001
	Mann-Whitney	3.500		0.013
VERRE D'EAU (NBRE GORG.ES)	Student	NaN ^b		
	Mann-Whitney	NaN ^b		
Score Myasth.nique de GARCHES	Student	2.318	26	0.029
	Mann-Whitney	94.000		0.031
GARCHES phonation	Student	2.365	24	0.026
	Mann-Whitney	53.000		0.034
GARCHES D.glutition	Student	3.916	26	< .001
	Mann-Whitney	89.500		0.002
GARCHES Mastication	Student	2.470	25	0.021
	Mann-Whitney	64.500		0.069
Total MG-ADL	Student	-2.199	23	0.038
	Mann-Whitney	23.000		0.071
MG-ADL parole	Student	-1.164	19	0.259
	Mann-Whitney	20.500		0.237
MG-ADL mastication	Student	-2.292	20	0.033
	Mann-Whitney	22.000		0.117
MG-ADL d.glutition	Student	-2.783	20	0.011
	Mann-Whitney	15.000		0.032

Annexe A4 : Tableau de corrélations

Variable	FEV (l)	DEP MAX (/min)	DEP (l)	CVF (l)	LANGUE ANT MAX (Kpa)	LANGUE ANT E (s)	LANGUE POST MAX (Kpa)	LANGUE POST E (s)	VERRE D'EAU (l) 175ml	VERRE D'EAU (NBRE CORG.ES)	Total MC-ADL	MC-ADL mastication	MC-ADL d.glutition	MC-ADL respiration	MC-ADL parole	Score Myasth.nique de GARCHES	GARCHES Mastication	GARCHES D.glutition	GARCHES phonation	
1. FEV (l)	Spearman's rho p-value	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
2. DEP MAX (/min)	Spearman's rho p-value	0.750** 0.005	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
3. DEP (l)	Spearman's rho p-value	0.808** 0.003	0.897*** < .001	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
4. CVF (l)	Spearman's rho p-value	0.945*** < .001	0.365 0.137	0.675** 0.006	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
5. LANGUE ANT MAX (Kpa)	Spearman's rho p-value	0.449 0.143	0.157 0.398	0.360 0.170	0.224 0.372	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
6. LANGUE ANT E (s)	Spearman's rho p-value	-0.125 0.698	0.018 0.925	0.286 0.283	0.894 0.894	-0.034 0.124	0.506 0.506	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
7. LANGUE POST MAX (Kpa)	Spearman's rho p-value	0.491 0.105	0.075 0.689	0.453 0.078	0.405 0.095	0.862*** < .001	0.288 0.116	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
8. LANGUE POST E (s)	Spearman's rho p-value	-0.104 0.749	0.201 0.288	0.398 0.126	0.286 0.250	-0.254 0.176	0.536** 0.002	-0.099 0.602	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
9. VERRE D'EAU (s) 175ml	Spearman's rho p-value	-0.547 0.102	-0.512** 0.005	-0.656* 0.011	-0.186 0.491	-0.715*** < .001	-0.090 0.647	-0.651*** < .001	0.128 0.515	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
10. VERRE D'EAU (NBRE CORG.ES)	Spearman's rho p-value	-0.400 0.750	-0.292 0.188	-0.444 0.231	0.004 0.991	-0.723*** < .001	-0.052 0.819	-0.673*** < .001	0.050 0.824	0.927*** —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
11. Total MC-ADL	Spearman's rho p-value	-0.457 0.184	-0.380 0.055	-0.582* 0.029	-0.557* 0.025	-0.281 0.165	0.014 0.947	-0.268 0.185	0.389 0.920	0.192 0.445	— —	— —	— —	— —	— —	— —	— —	— —	— —	
12. MC-ADL mastication	Spearman's rho p-value	-0.332 0.422	0.066 0.772	-0.464 0.151	-0.610* 0.021	-0.502* 0.017	-0.100 0.656	-0.542** 0.009	-0.109 0.639	0.292 0.211	0.258 0.335	0.310 0.172	— —	— —	— —	— —	— —	— —	— —	
13. MC-ADL d.glutition	Spearman's rho p-value	-0.227 0.589	-0.010 0.966	0.065 0.849	-0.151 0.606	-0.265 0.234	0.098 0.666	-0.204 0.362	0.288 0.295	0.271 0.248	0.016 0.954	0.146 0.328	0.430* 0.046	— —	— —	— —	— —	— —	— —	
14. MC-ADL respiration	Spearman's rho p-value	-0.656 0.077	-0.148 0.511	-0.503 0.115	-0.384 0.176	-0.577** 0.005	0.065 0.775	-0.447* 0.037	0.006 0.979	0.282 0.228	0.133 0.624	0.475* 0.029	0.345 0.116	0.347 0.113	— —	— —	— —	— —	— —	
15. MC-ADL parole	Spearman's rho p-value	-0.673 0.098	-0.228 0.320	-0.600 0.067	-0.703** 0.007	-0.593** 0.005	-0.227 0.323	-0.539* 0.012	-0.334 0.150	0.386 0.103	0.436 0.104	0.670** 0.001	0.708*** < .001	0.276 0.226	0.334 0.138	— —	— —	— —	— —	
16. Score Myasth.nique de GARCHES	Spearman's rho p-value	0.483 0.111	0.341 0.070	0.309 0.245	0.220 0.380	0.516** 0.004	0.291 0.126	0.459* 0.012	0.247 0.205	-0.455* 0.019	-0.349 0.132	-0.195 0.341	-0.326 0.139	-0.335 0.127	-0.358 0.102	-0.702*** < .001	— —	— —	— —	
17. GARCHES Mastication	Spearman's rho p-value	0.186 0.584	0.341 0.075	0.169 0.547	-0.252 0.330	-0.009 0.962	0.167 0.396	0.065 0.741	0.009 0.964	-0.153 0.466	0.073 0.759	-0.048 0.818	0.180 0.436	-0.113 0.627	-0.029 0.901	0.040 0.866	— —	— —	— —	
18. GARCHES D.glutition	Spearman's rho p-value	0.208 0.516	0.143 0.461	0.323 0.223	0.100 0.692	0.417* 0.024	0.259 0.174	0.436* 0.018	0.189 0.336	-0.029 0.888	0.260 0.268	-0.049 0.813	-0.470* 0.027	-0.359 0.101	-0.371 0.089	-0.462* 0.035	0.334 0.076	0.267 0.169	— —	
19. GARCHES phonation	Spearman's rho p-value	0.266 0.458	0.446* 0.020	0.650* 0.012	0.234 0.382	0.389* 0.045	0.437* 0.023	0.464* 0.015	0.417* 0.014	-0.167 0.425	-0.024 0.919	-0.258 0.223	-0.373 0.106	-0.014 0.955	-0.415 0.069	-0.537* 0.018	0.235 0.239	0.186 0.352	0.778*** < .001	— —

Tableau de corrélations