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Quality and readability of online information

on Keratoconus in Portugal and Brazil

Autores: Celso Costa¹, Renato Souza Oliveira^{1,5}, João Gil¹⁻⁴, Esmeralda Costa¹⁻⁴, Cristina Tavares¹⁻⁴, Andreia Rosa¹⁻⁴, Maria João Quadrado¹⁻⁴, Joaquim Murta¹⁻⁴

Instituições: 1 Centro Hospitalar e Universitário de Coimbra (CHUC), Coimbra, Portugal

2 Clinical Academic Center of Coimbra (CACC), Coimbra, Portugal

3 Faculdade de Medicina da Universidade de Coimbra (FMUC), Coimbra, Portugal 5 Universidade Federal de São Paulo (Unifesp), São Paulo, Brasil



Background and Purpose

- Keratoconus (KC): most common primary corneal ectasia
- Nowadays, patients turn to the Internet for answers to their expectations in Dx, Tx and Px
- However, the webpages are not filtered or submitted to evaluation and quality control before getting published Aim: to evaluate the quality and readability of the online information available for the patients regarding KC in Portugal and in Brazil.

Materials and Methods

- 2 independent ophthalmologists and 1 ophthalmologist supervisor evaluated 30 portuguese and 30 brazilian websites from a Google search by order of appearance with the word "Queratocone" and "Ceratocone", respectively
- 2 quality scores were used: a quality index of consumer health information (DISCERN) and the Journal of the American Medical Association (JAMA) benchmark
- 3 Readability scores were used: FleschKincaid Reading Ease (FRE), FleschKincaid Grade (FKG) and Automated Readability Index (ARI).

Table 2: e.g. of a readability score (FRE) and the correspondent description of style			
0-30	Very difficult		
30-50	Difficult		
50-60	Fairly difficult		
60-70	Standard		
70-80	Fairly easy		
80-90	Easy		
90-100	Very easy		

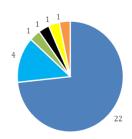


Spectacles/CL brand Private hospital/clinic
 Orthoptist
 Ophthalmology society Health platform thesis blog encyclopedia Online presentation

Results

Origin of websites

- Private hospital/clinic
- Firvate hospital/time
 Health platform
 Ophthalmology society
 Spectacles/CL brand
 Health Newsletter
- school content website



Comparison between countries

Table 3: Comparion between countries			
Domain Acessed	Portugal	Brazil	Comparison
Quality (JAMA) (mean±SD)	1,13±1,18 (0-3)	1,07±1,00 (0-3)	p=0.166
Quality (DISCERN) (mean±SD)	34,07±11,71(17-60)	38,17±10,51(22-66)	p=0.817
Readibility (FRE) (mean±SD)	33,16±12,61 (-3,5-55,9) "difficult to read"	39,19±5,58 (27,6-51,3) "difficultto read"	p=0,0239
Popularity:	r=-0.0910, p=0,632	r=-0.359, p=0,0514	p=0,148
Correlation with DISCERN	r=-0,330, p=0,0749	r=-0,135, p=0,477	p=0,223
Correlation with FRE	r=-0,0488, p=0,801	r=-0,0295, p=0,881	p=0,472

Conclusions

Between countries:

- Websites from private health care predominated (more emphasis in Brazil)
- Quality: low in both countries (slight tendency to better results in Brazil)
 - Readability: significantly better in Brazil

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• Popularity ranking: not a results' influencer in both countries.

Overall:

- Information on KC available online to Portuguese-speaking patients: poor quality and difficult to interpret.
- Ophthalmologists have a shared responsibility to tackle this challenge through multifold efforts Educating our patients on how to find reputable websites can help them navigate their life with KC.