

## SUPPLEMENTARY MATERIALS

### Hearing Impairment Overview in Africa: The Case of Cameroon

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**Table S1:** Search strategy in Pubmed

Search step	Search terms	Hits
1	"Hearing impairment" OR "hearing loss" OR deaf OR deafness	99 075
2	Cameroon	
3	#1 and #2	31
4	#3 and <b>Search limits:</b> from inception to October 31 <sup>th</sup> 2019	31

**Table S2:** Search strategy in Scopus

Search step	Search terms	Hits
1	"Hearing impairment" OR "hearing loss" OR deaf OR deafness	146 211
2	Cameroon	
3	#1 and #2	38
4	#3 and <b>Search limits:</b> publication year < 2020	38

**Table S3:** Search strategy in AFROLIB

Search step	Search terms	Hits
1	"Hearing impairment" "hearing loss" "deaf" "deafness" "Cameroon"	15
2	#1 and <b>Search limits:</b> publication date ≤ October 31 <sup>th</sup> 2019	8

**Table S4:** Search strategy in African Index Medicus

Search step	Search terms	Hits
1	"Hearing impairment" "hearing loss" "deaf" "deafness" "Cameroon"	83
2	#1 and <b>Search limits:</b> publication date ≤ October 31 <sup>th</sup> 2019	81

**Table S5:** Search strategy in African Journals Online

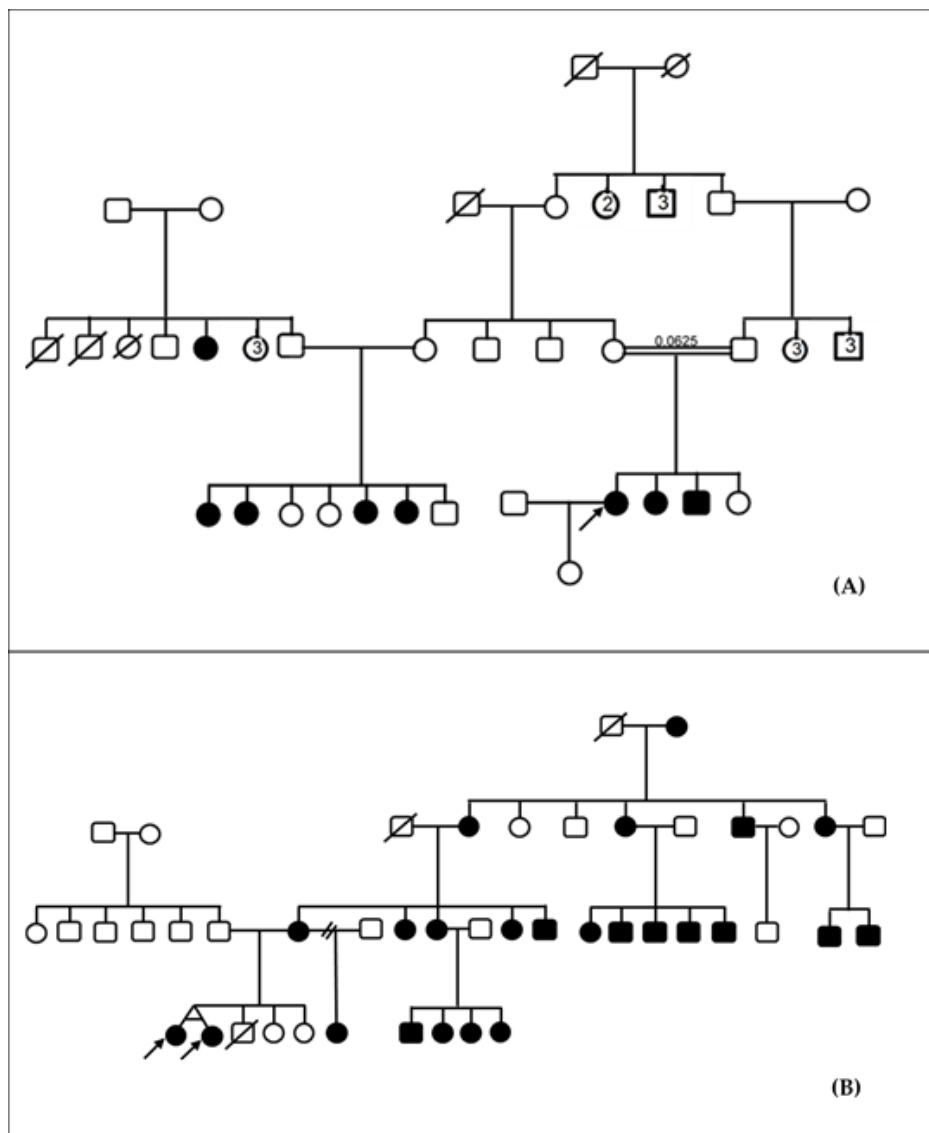
Search step	Search terms	Hits
1	“Hearing impairment” OR “hearing loss” OR deaf OR deafness	268
2	#1 and <b>Search limits:</b> from inception to October 31 <sup>th</sup> 2019	175

**Table S6:** Age at diagnosis of hearing impairment in Cameroon (extracted from the study by Wonkam et al. [1])

Age of onset	Number of cases, n (%)
Prelingual (Before 2 years old)	437 (75.1)
Perilingual (Between 2 and 4 years)	116 (20)
Postlingual (After 4 years)	29 (4.9)

**Table S7:** Categories of hearing loss in Cameroon with pure tone audiometry, according to the BIAP classification (extracted from the study by Wonkam et al. [1]).

Category of hearing loss	Sensorineural hearing loss	Mixed hearing loss	Total, n (%)
Severe I (71–80 dB)	14	11	25 (4.8)
Severe II (81–90 dB)	39	14	53 (10.1)
Profound I (91–100 dB)	140	27	167 (31.9)
Profound II (101–110 dB)	156	16	172 (32.8)
Profound III (111–120 dB)	71	11	82 (15.6)
Total (>120 dB)	25	0	25 (4.8)
Total, n (%)	445 (84.9)	79 (15.1)	524 (100)



**Figure S1:** Inheritance of familial hearing impairment in Cameroon. (A) Pedigree of a consanguineous family with autosomal recessive non-syndromic hearing impairment. (B) Pedigree of a family with non-syndromic hearing impairment suggestive of mitochondrial inheritance. Arrows here indicate the probands (Extracted from the study by Tingang Wonkam et al. [2]).

## Reference:

1. Wonkam, A.; Noubiap, J.J.N.; Djomou, F.; Fieggen, K.; Njock, R.; Toure, G.B. Aetiology of childhood hearing loss in Cameroon (sub-Saharan Africa). *Eur J Med Genet* **2013**, *56*, 20–25.
2. Tingang Wonkam, E.; Chimusa, E.; Noubiap, J.J.; Adadey, S.M.; F Fokouo, J.V.; Wonkam, A. GJB2 and GJB6 Mutations in Hereditary Recessive Non-Syndromic Hearing Impairment in Cameroon. *Genes (Basel)* **2019**, *10*.