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Oral Health Beliefs in people living with Von Willebrand's disease in Ireland

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BACKGROUND



Von Willebrand Disease (vWD) represents the most common inherited bleeding disorder in man affecting 1% of the population (Mannucci *et al.*, 2009; Lavin *et al.*, 2017).



A cohort study in Ireland of people with low levels of von Willebrand's factor (vwf) found bleeding from the mouth was the second most prevalent type of bleeding reported after menorrhagia (Lavin *et al.*, 2017).



Previous studies suggested that patients stopped brushing their teeth as they attributed bleeding from the mouth to their bleeding disorder (Hitchings, 2012).

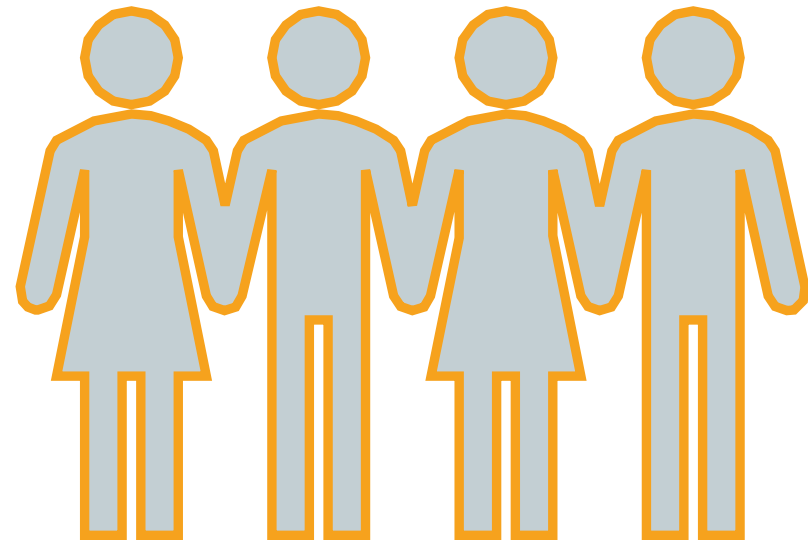


In contrast, clinical dental studies in people living with a congenital bleeding disorder (CBD) have found that bleeding from the mouth is mostly attributable to gingivitis (Moosajee *et al.*, 2013; Rafique *et al.*, 2013).

RECRUITMENT

The study involved a sample of patients attending for annual review with their haematology teams.

N= 24 people



CASE STUDY

Questionnaire (a battery of tests)

2 Oral health related quality of life....

In the last 12 months have you experienced the following because of problems with your teeth mouth and gums	Never	Hardly ever	Occasionally	Often	Very often
1 Trouble pronouncing words	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 Felt sense of taste worsened	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Had a painful aching in the mouth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Found it uncomfortable to eat any food	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Have been self conscious	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6 Felt tense	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7 Had an unsatisfactory diet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8 Had to interrupt meals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9 Found it difficult to relax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10 Have been a bit embarrassed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11 Have been irritable with other people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12 Had difficulty doing usual jobs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
13 Life in general was less satisfying	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14 Have been totally unable to function	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

3. Which one of the following oral conditions has caused this difficulty ...ACTIVITY / BEHAVIOR...?). Please circle all that apply.

toothache	1	receding gums	11
sensitive tooth	2	tartar	12
tooth decay (hole in tooth)	3	oral ulcer or spot	13
fractured tooth	4	bad breath	14
tooth loss	5	deformity of mouth or face (e.g. cleft lip, cleft palate)	15
loose tooth	6	clicking or grating noise in jaw	16
colour of teeth	7	improper filling or crown (e.g. broken, col-our)	17
position of teeth (e.g. crooked or projecting, gap)	8	loose or ill-fitting denture	18
shape or size of teeth	9	orthodontic appliance	19
bleeding gums	10	or any other reason? (please specify)	20

11 These questions are asking about your experience of bleeding gums (please tick)

1) Have you had any experience of bleeding gums? (mark the response where 1 is never and 10 is very often, 5 is in the middle). If you answered 'never' skip to question 3)

1	2	3	4	5	6	7	8	9	10
Never									Very often

2) If yes, does the bleeding occur spontaneously? (mark the response where 1 is never and 10 is very often, 5 is in the middle)

1	2	3	4	5	6	7	8	9	10
Never									Very often

3) Do your gums bleed when you brush your teeth and/or floss your teeth? (mark the response where 1 is never and 10 is very often, 5 is in the middle).

1	2	3	4	5	6	7	8	9	10
Never									Very often

4) Do you think it takes a long time for your gums to stop bleeding after tooth-brushing or flossing? (ask participant to mark the response where 1 is never and 10 is very often, 5 is in the middle).

1	2	3	4	5	6	7	8	9	10
Never									Very often

If yes, how long does it take for the bleeding to stop? Please tick your preferred option.

- Less than 5 minutes
- 5 to 10 minutes
- 10 to 30 minutes
- More than 30 minutes
- A few hours

12 Perception Questionnaire (1-7)

Please grade your responses to the following statements (mark the response where 1 is not at all and 10 is extremely so, 5 is in the middle)

1 How much do bleeding gums affect your life?

1	2	3	4	5	6	7	8	9	10
Not At all									Extremely so

2 For how long do you think you will experience bleeding gums?

1	2	3	4	5	6	7	8	9	10
Not Long									A very long time

3 How much control do you feel you have over bleeding gums ?

1	2	3	4	5	6	7	8	9	10
Not At all									Extremely so

4 How much do you think treatment can help bleeding gums ?

1	2	3	4	5	6	7	8	9	10
Not At all									Extremely so

5 How concerned are you about bleeding gums?

1	2	3	4	5	6	7	8	9	10
Not At all									Extremely so

6 How well do you think you understand bleeding gums?

1	2	3	4	5	6	7	8	9	10
Not At all									Extremely so

7 How much would you say bleeding affects you emotionally? (e.g. does it make you angry, scared, upset or depressed?)

1	2	3	4	5	6	7	8	9	10
Not Affected at all emotionally									Extremely affected emotionally

OVERVIEW OF FINDINGS

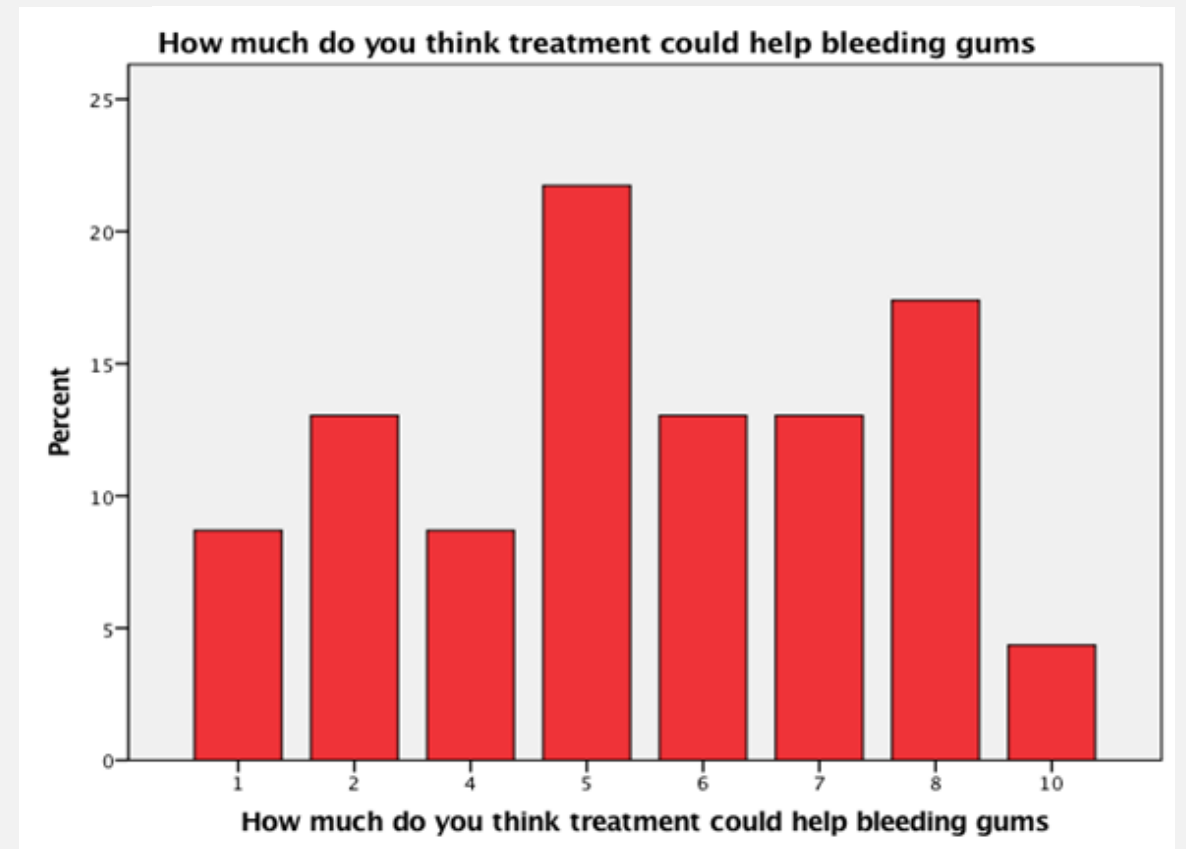
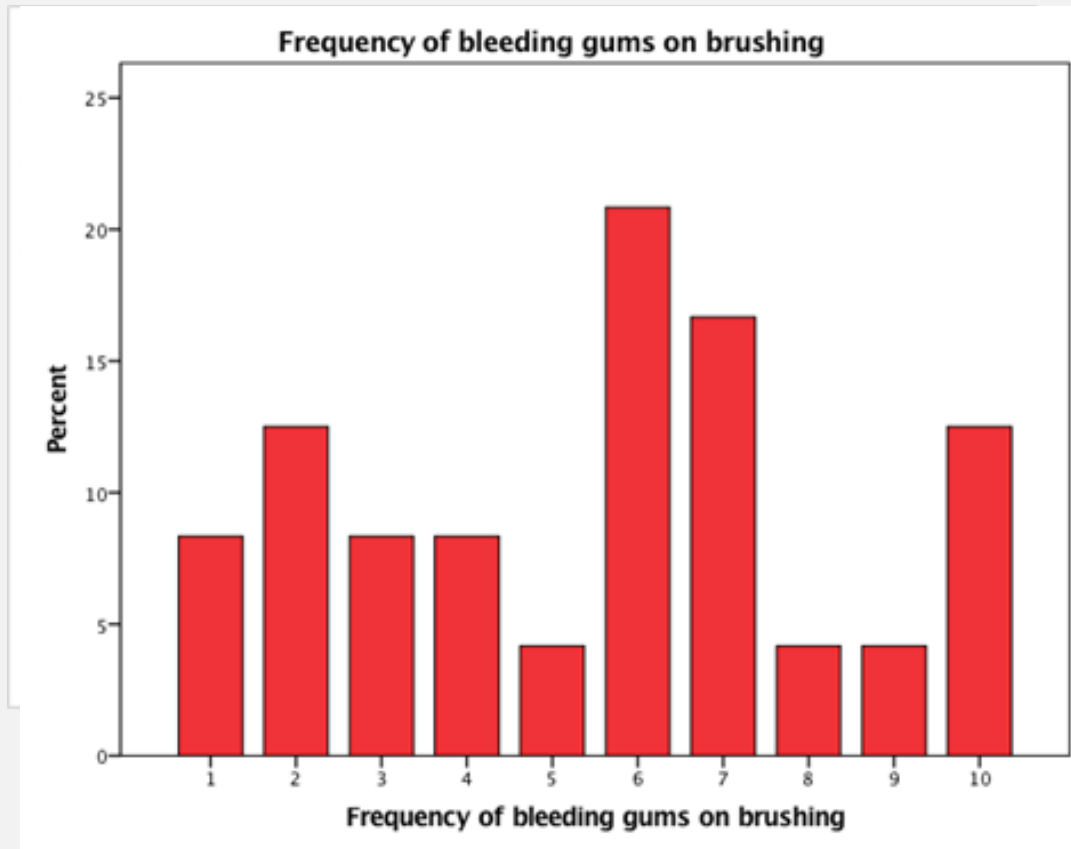


Figure 2 Relative frequency of bleeding gums on brushing/ flossing (N = 24) mean 5.5 (SD 2.8)

Figure 4 “How much do you think treatment could help bleeding gums?” N= 24 mean 5.1 (SD 2.6)