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The Importance of Group Therapeutic Support for Family Members of Children with Alopecia Areata: A Cross-sectional Survey Study

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Abstract

Background/Objectives—The psychological impact of alopecia areata is well documented, but group interaction may help lessen this burden. We aimed to determine factors which draw patients with alopecia areata and their families to group events.

Methods—Surveys were administered at the Annual Alopecia Areata Bowling Social in 2015 and 2016. This event is a unique opportunity for children affected by alopecia areata and their families to meet others with the disease and connect with local support group resources from the Minnesota branch of the National Alopecia Areata Foundation. Data from 2015 and 2016 were combined. Comparisons between subgroups were carried out using Fisher's exact test for response frequencies and percentages, and two sample t-test for mean values.

Results—An equal number of males and females participated in the study (n = 13, each) with an average age of 41.1 years. There were no significant differences (p > 0.05) in survey responses based on respondent age or gender. Most (23/26, 88.5%) attendees sought to connect with others affected by alopecia areata and met 3 or more people during the event (23/26, 88.5%). Many also attended other support group events (17/26, 65.4%). Almost half of respondents (12/26, 46.2%) came to support a friend or family member. One hundred percent of attendees identified socializing with others with alopecia areata as important.

Conclusions—Group interaction is an important source of therapeutic support in patients and families affected by alopecia areata.

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All authors consent to publication of this work. All authors have no conflicts of interest to declare.

This study was exempt from the University of Minnesota IRB review. We abided by the principles in the Declaration of Helsinki.

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Keywords

Alopecia areata; Pediatrics; Group interaction; Psychology; Survey

Introduction

The psychological sequelae for some patients with alopecia areata (AA) have been well documented in the literature, including increased risk of anxiety, depression, social phobias, paranoid disorders, self-esteem issues, decreased body image, and reduced quality of life. (1–4) Comprehensive therapeutic support for AA may include monitoring and treatment for psychiatric issues due to their prevalence in those diagnosed. (5, 6) Mounting evidence supports that involvement with support groups and other group activities enhances coping strategies, creates a sense of belonging and can improve quality of life. (7) There is little such evidence substantiating the importance of these group events for those with hair and skin disorders. To address this, we organized the Alopecia Areata Bowling Social for children affected by AA and their families.

The Alopecia Areata Bowling Social is an opportunity to connect pediatric patients with AA and their families to others in the local community through an evening of bowling, socializing and accessibility to local support group resources. It is advertised to current members of the Minnesota branch of the National Alopecia Areata Foundation (NAAF) support group as well as to pediatric patients with alopecia areata seen at the University of Minnesota Department of Dermatology Clinics. The event is organized by the University of Minnesota Dermatology Interest Group and supported by the Department of Dermatology. The event includes: bowling, complimentary pizza dinner, interactive games, prizes for all children attending, photo booth, local support group leadership presence, and local support group informational handouts. See Table 1 for event development details. To assess the appeal of this pediatric group event, we administered surveys to parents of children with AA attending the Bowling Social during 2015 and 2016.

Materials and Methods

Study Population

An adult representative (age 18) from each family attending the Annual Alopecia Areata Bowling Social was invited to participate in the survey. See Figure 1 for full list of survey questions. Of the 18 families present in 2015, 15 responded (83.3%) and in 2016, out of the 12 families present, 11 responded (91.7%); there were a total of 26 respondents between the two years. All respondents were the first or second-degree family member of a child with AA. Participation was voluntary and anonymous.

Data Collection

Survey responses were recorded in the Research Electronic Capture (REDCap) system, a secure web-based application. (8) Responses from both years were combined into an Excel spreadsheet (2011, Microsoft Corp., Redmond, WA).

Statistical Methods

Summary statistics and data analysis were provided by the Biostatistics Design and Analysis Center (BDAC) of the University of Minnesota Clinical and Translational Science Institute. Frequencies and percentages were compared between genders using Fisher's exact test. Mean values were compared between subgroups using the two sample t-test.

This study was given exempt status from the University of Minnesota Human Subjects Institutional Review Board

Results

Demographics

After combining responses from 2015 and 2016, there was an equal number of males and females participating in the survey (n = 13, each). The average age of survey respondents was 41.1 years, ranging from 30-52 years. There was no statistically significant difference between survey responses based on the gender or age of the individual participating (Table 2, Table 3). In 2016, additional questions regarding the age of children at the event were included. Of the children attending (age < 18), the average age was 9.2 years (range 5–16 years, n = 13), and the mean age at diagnosis of AA was 3.5 years (range 8 months–9 years).

Perception of Group Interaction

The majority of attendees (23/26, 88.5%) participated in the group event to meet others with AA and most (23/26, 88.5%) met 3 or more people (Table 2). Most respondents had also participated in other AA support group events (17/26, 65.4%) and several attended the bowling social in support of a friend or family member (12/26, 46.2%, Table 2). To specifically address the importance of interacting with others with AA, we added three survey questions in 2016 (Table 4). All respondents reported that it was important to socialize with others affected by AA and most (9/11, 81.8%) believed they were likely to connect with someone new from this event (Table 4). Additionally, 45.5% (5/11) of parents reported that they used social media (Table 4) to meet others with AA (4/5, 80/0%), support friends/family (2/5, 40.0%), and learn more about AA and/or treatment options (2/5, 40.0%).

Discussion

For pediatric AA patients and their families, the psychological morbidity of AA may manifest early. Children and adolescents with AA may demonstrate higher levels of anxiety and lower parent-rated psychosocial quality of life levels. (9) In this study, building a foundation of peer support early is self-reported as an important part of coping with the disease. The majority of adult parents (88.5%) endorsed that meeting others with AA was an important reason their family attended and achieved this goal by meeting at least 3 new individuals during the bowling social (88.5%).

Pediatric patients with AA may also have a relative deficiency of peer connections that is in part influenced by the developmental age of their peers. In a recent study by Hankinson et al., (10) younger elementary school aged children were more likely to be uncomfortable around those with AA and afraid to get to know them. These children feared that those with

AA were contagious or dying. (10) Too young to understand the situation or the disease, young unaffected children may be less inclined to interact with children with AA. Perhaps from this isolation, patients and families affected by AA seek peer support through other avenues like the Bowling Social and support group events.

The social ramifications of AA do not appear limited to the patient, but affect family members as well. Alfani et al. (11) demonstrated that issues in family relationships are more likely in families affected by AA than in those without an affected family member. The psychosocial strain of the disease may transcend the diagnosed individuals, resulting in additional stress in the larger family structure. To adequately cope, additional support from family members may be an important component. Of those at the Bowling Social, 42.2% indicated they attended in support of a friend or family member. Data from this study support that coping with alopecia could be a family affair.

Limitations

This study was limited by its cross-sectional design making causal relationships unattainable, and did not address the longitudinal impact of group interaction. Survey responses were obtained second-hand from parents of children with AA and not directly from the children themselves; therefore, parents' perception of the benefits of group interaction may differ from the children's perception. Population size was also low (n = 26). Additionally, the same family may have participated in the survey during both years, and due to issues of confidentiality, this information was not recorded. Lastly, participants were from the greater Minneapolis, Minnesota area and included those who enjoy support group events and were more likely to attend. Thus, results may not represent the general population affected by AA.

Conclusion

Socializing with others sharing a diagnosis of AA was unanimously identified as important. For patients and families affected by AA, most attended the support group event to meet others with AA. Future studies assessing the effect of group therapeutic support and social media on quality of life will be important in elucidating the psychological impact of these interactions for pediatric AA patients, parents of affected children and other family members.

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Who are you here for tonight that has alopecia areata? (May select more than one) Myself My child My sibling My friend Other (Relationship other:)	
Which of the following best describes the reason why you attended this event? (May select than one) Support of friend/family Community service/volunteering To meet others with alopecia areata in the community Interest in learning more about alopecia areata Other (Reason other:)	more
How did you hear about this event? National Alopecia Areata Foundation (NAAF) email Doctors visit Facebook or other social media site Friend(s) or Family Other (Other:)	
Do you attend other Alopecia Areata Support Group outings? □Yes □No	
*How important is it for you to socialize with others affected by alopecia areata? Unimportant Somewhat unimportant Neutral Somewhat important Important	
How aware do you feel you are about the National Alopecia Areata Foundation (NAAF)? I've never heard of it Somewhat not aware Somewhat aware Very aware 	

Number of times you have attended the alopecia areata bowling event (including tonight):

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Would you recommend this bowling social event to others with alopecia areata? Yes
No

*How likely are you to connect with a new friend or family following this event?
Very unlikely
Somewhat unlikely
Very likely

Your age (years):

*If you are a parent, please list the age(s) of your child/children with alopecia areata:

*Age(s) at diagnosis of alopecia areata (in years):

Your Gender: Male Female Other

*Do you use social media in connection with alopecia areata?
Yes
No
If yes, why do you? (May choose multiple)
Support of friend/family
To meet others with alopecia areata
Interest in learning more about alopecia areata and/or treatment options
To interact with healthcare providers outside of clinic

Other (Other: _____)

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	Not at all satisfied	Somewhat unsatisfied	Somewhat satisfied	Highly satisfied
Which of these statements best describes your satisfaction with this event:				
Which of these statements best describes your satisfaction with the number of people you met at this event?				
Which of these statements best describes your satisfaction with the food options available at this event?				
Which of these statements best describes your satisfaction with the facilities where this event was held?				
Which of these statements best describes your satisfaction with opportunities for your child to connect with other kids?				

Favorite part of the event: _

Suggestions to improve event in future:

Figure 1.

Survey Questions.

*Indicates new questions added in 2016.

Event How To

- Step 1: Consider collaboration between local NAAF support group, academic dermatology department and student groups
 - Step 2: Reserve bowling venue
- Step 3: Advertise event through NAAF, local academic centers and/or other support groups
- Step 4: Develop interactive games for children and photo booth backdrop
- Step 5: Create event survey
- Step 6: Design unifying event apparel to identify volunteers
- Step 7: Purchase prizes for games (e.g. sunglasses, stuffed animals, stickers, small footballs, t-shirts)
- Step 8: Order food for event
- Step 9: Host event and distribute surveys
- Step 10: Complete response analysis

NAAF: National Alopecia Areata Foundation

Survey Responses by Gender of Adult

	Male	Female	
Variable	x/n (%)	x/n (%)	P-value
Attended other AA support group events	9/13 (69.2%)	8/13 (61.5%)	1.00
Attended to support family/friend	6/13 (46.2%)	6/13 (46.2%)	1.00
Attended to meet others with AA	11/13 (84.6%)	12/13 (92.3%)	1.00
Attended to meet others but not support family/friend	6/12 (50.0%)	7/13 (53.9%)	1.00
Number of people met at event:			
0–2	2 (15.4%)	1 (7.7%)	
3–5	7 (53.8%)	7 (53.8%)	0.667
6–8	4 (30.8%)	3 (23.1%)	
>8	0 (0.0%)	2 (15.4%)	
	Mean (range)	Mean (range)	
Number of times attended this event	2.7 (1-6)	2.0 (0-4)	0.246
Age in years *	40.8 (30-52)	41.4 (36–48)	0.747

* Two people did not provide an age as a single year.

AA: Alopecia areata

Survey Responses by Age of Adult

Variable Mean age (range) n^* *P*-value

Attended other AA support group events:			
Yes	42.0 (36–52)	16	0.202
No	39.3 (30–46)	8	
Attended to support family/friend:			
Yes	40.9 (36–48)	12	0.873
No	41.3 (30–52)	12	
Attended to meet others with AA:			
Yes	41.1 (33–52)	21	0.988
No	41.0 (30-48)	3	
Attended to <i>only</i> meet others with AA:			
Yes	42.3 (33–52)	11	0.473
No	40.9 (36–48)	12	

* Two people did not provide an age as a single year, hence total *n* less than 26.

AA: Alopecia areata

Additional 2016 Survey Questions

	Yes [†]	No [§]
Variable	n (%)*	n (%)*
Important to socialize with others with AA	11 (100.0)	0 (0.0)
Likely to connect with someone new from this event	9 (81.8)	2 (18.2)
Use social media in connection to AA	5 (45.5)	6 (54.5)

[†]Includes responses of "important", "somewhat important", "very likely", "somewhat likely", and "yes".

§Includes responses of "unimportant", "somewhat unimportant", "neutral", "very unlikely", "somewhat unlikely", and "no".

*Response rate for 2016 was 11/12, and 11 is the denominator for the (%).

AA: Alopecia areata