

Background

- Social media offers new opportunities in diabetes management, particularly in terms of how healthcare team members may provide tailored education and support
- Approximately 90% of teens report use of some form of social media and many cite a preference for communication via social networking sites
- Diabetes care teams have the potential to engage with adolescents via social media without the costs and constraints of more conventional intervention approaches

Objective

To examine adolescent preferences related to social media as a tool to manage their type 1 diabetes (T1D) with their diabetes care team

Methods

- Survey items were generated to explore adolescent interest in communicating with their diabetes care team over social media by a study team with expertise in pediatric endocrinology, adolescent medicine, social media and survey research
- Cognitive interviews were conducted (n=35) to improve survey comprehension and flow
- A random voluntary sample of adolescents with T1D (13-18 years old) in western Washington State was surveyed from August 2019 to December 2019
- Participant demographics, along with current use of diabetes technology and glycemic control data, was abstracted from the medical record



Adolescent Preferences on the Use of Social Media by **Diabetes Care Teams to Support Type 1 Diabetes Management**

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Random sample of adolescents with
type 1 diabetes mailed surveys
<i>n</i> = 450

xcluded
Incorrect mailing address, n=8
Did not have type 1 diabetes, <i>n</i> =1

Eligible sample of adolescents *n* = 441

Completed survey responses *n* = 231 Response rate: 52.4%



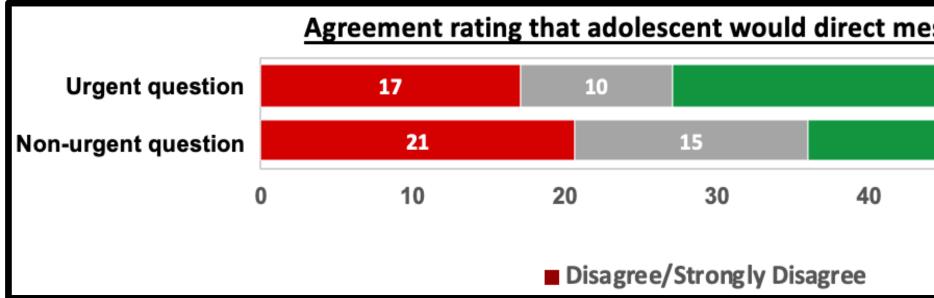
TABLE	1: Participant characteristi	CS	
	ent (years), mean (sd)	16.0	
Sex, n (%)	Female	104 (
	Male	127 (
Race/Ethnicity, n (%)	Non-Hispanic White	154 (
	Non-Hispanic Black	12 (
	Hispanic	21 (
	Other	19 (
	Refused/Missing	25 (1	
Insurance, n (%)	Private	178 (
	Public (State/Tricare)	52 (2	
	Uninsured (Self-Pay)	1 (C	
HbA _{1c} %, mean (sd)	%, mean (sd)		
Diabetes duration (ye	6.7 (
Diabetes technology	Wear CGM	142 (
use, n (%)	Use insulin pump	151 (
Have used social med	217 (
Currently use social r	211 (
	Almost constantly	32 (1	
	Hourly or more	94 (4	
	Daily (less than hourly)34 (1)71 (3)		
	Few times per week or less	14 (

- with their diabetes care team

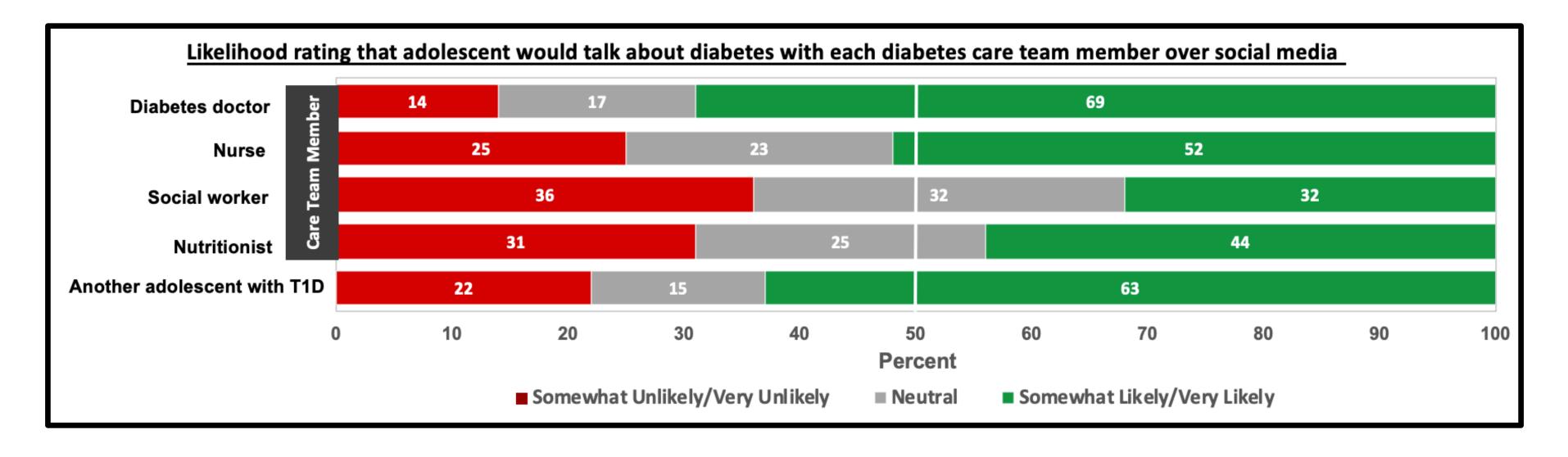
Results

- (1.6)(45.0) (55.0)(66.6)(5.2) (9.1) (8.2)(10.8)(77.0)22.5) (0.5)(1.9)(4.2) (61.4)(65.4)(93.9)(91.3) (15.2) (44.5) 33.6) (6.6)

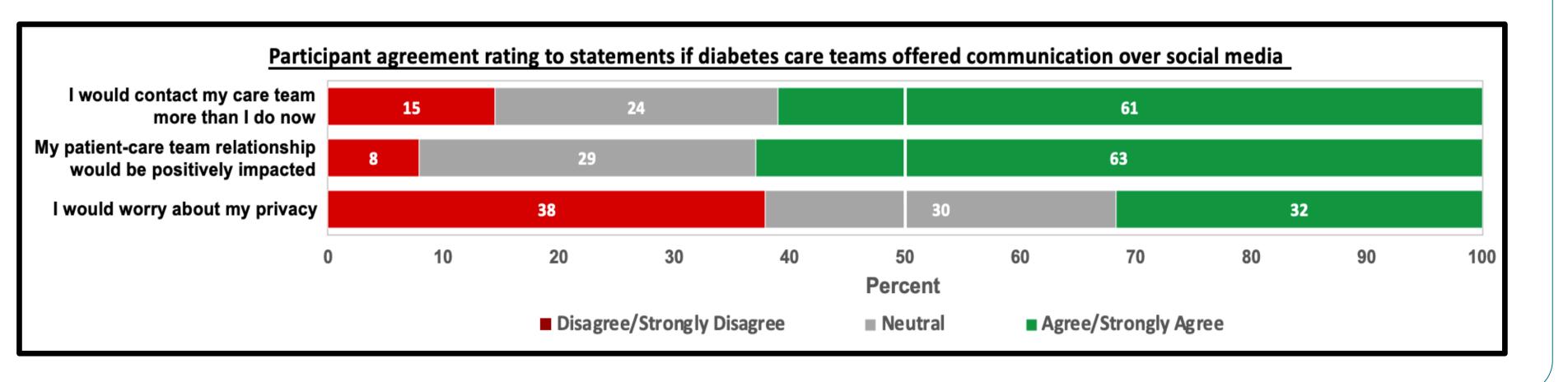
• Over 70% of adolescent participants agreed or strongly agreed that they would use direct messaging to ask urgent questions of their diabetes care team if a social media communication option was available



- A majority of participants agreed or strongly agreed that they would want to receive educational material (62%) and insulin dose adjustment support over social media (58%)
- Nearly 70% of adolescent participants indicated that if given the option, they were very likely or somewhat likely to communicate with their diabetes provider on social media
- A large percentage of participants (63%) were interested in engaging with another adolescent with T1D on social media to provide support related to diabetes



- Most adolescent participants agreed that social media communication would facilitate increased independent communication (61%) and positively impact patient-care team relationships (63%)
- A minority of participants (32%) reported privacy concerns



Conclusions

• Adolescents with T1D express interest in using social media to support diabetes management and increase direct engagement

• Future research should explore the use of social media by healthcare teams to provide tailored support to adolescents with T1D



	73				
	64				
50 Percent	60	70	80	90	100
Neutral	Agro				



GRANT SUPPORT

This study was funded by the National Institute of Diabetes and Digestive and Kidney Diseases of the National Institutes of Health (K23-DK119465)