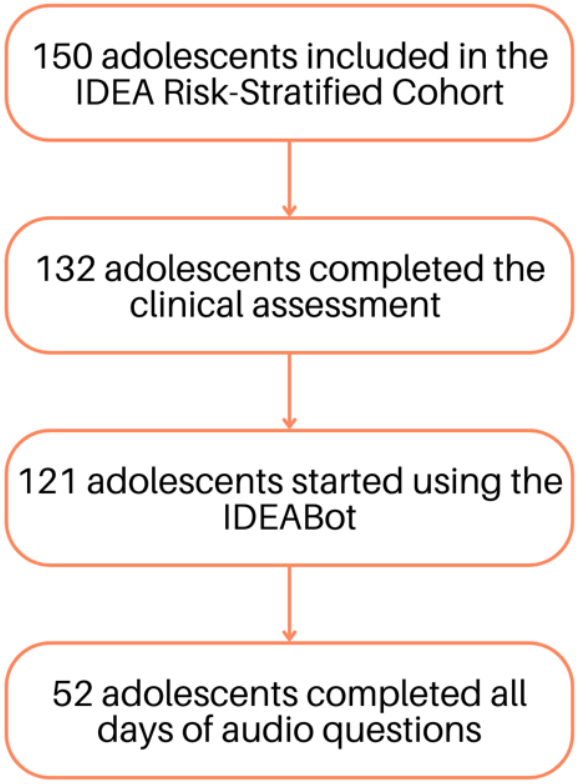
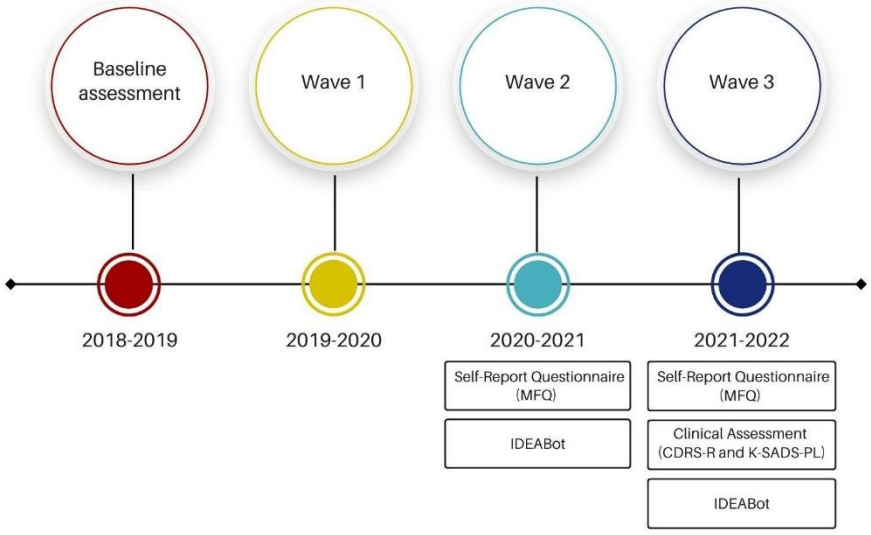
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Supplementary Material S1 Flow diagram of included participants



Description of data collection waves of the
Identifying Depression Early in Adolescence Risk Stratified Cohort (IDEA-RiSCo) study



Supplementary Box S1 Questions prompted by the IDEABot to each participant

Day	General theme	Question 1	Question 2*	Question 3	Question 4*	Question 5*
1	Getting to know the participant	Now, [[name]], we would like to get to know you a bit more. Could you introduce yourself?	What a brief voice note, [[name]]! Can you tell us about your favorite food? Do you support any sports team?*	What have you done today? Is today similar to your usual routine?	Thank you for sending another voice note! Tell us a bit more about it, [[name]]. It's very important for us to know more about you!	It would be really important for you to tell us a bit more, if you can.
2	Characteristics of home environment	What are you doing right now? Is someone there with you?	Tell me more about it, [[name]]. Who lives with you? Do you get along with the people living in your house?	Can you tell us more about your house? Do you like living in it? Why?	Thank you for sending yet another voice note! Tell us more about it, [[name]]. It is very important for us to know more about you!	It would be really important for you to tell us a little bit more, would you?
3	Characteristics of daily routine and neighborhood	Recently, do you mostly stay home or do you go out eventually? When you go out, what do you usually do?	Interesting, [[name]]! And how is the neighborhood you live in? Are there cool things around?	We want to know more about it, [[name]]! Tell us: is there any park nearby? More buildings or houses? Do the neighbors have dogs or cats?	Thank you for sending yet another voice note! Tell us more about it, [[name]].	It would be really important for you to tell us a little bit more, would you?
4	Favorite story	[[name]], I would like to know about your favorite story. It could be from a movie, a book or a series... whichever you want!	Got it. Interesting, [[name]]. Can you tell us what this story is about? What about the characters?	And why is this your favorite story, [[name]]?	Thank you for sending yet another voice note! Tell us more about it, [[name]].	It would be really important for you to tell us a little bit more, would you?
5	Mobile device and Internet use	Do you use your phone a lot, [[name]]? What do you most like to do on it?	Do you use any social media or messaging apps other than WhatsApp? How often?	And how much time do you usually spend on the internet in a day? Do you prefer using it during the day or at night? Why?	Thank you for sending yet another voice note! Tell us more about it, [[name]].	It would be really important for you to tell us a little bit more, would you?
6	Support network	Besides sending these voice notes, who else do you share things that happen in your life with? What is your relationship with that person like?	Tell us a little more about it, [[name]]! How often do you meet that person? What do you usually talk about?	And why do you share the things in your life with that person?	Thank you for sending yet another voice note! Tell us more about it, [[name]].	It would be really important for you to tell us a little bit more, would you?
7	Evaluation of the IDEABot	It's been almost two weeks since we started this conversation, [[name]]! What was it like answering all the questions asked here?	And how were these last two weeks? Did anything different happen?	Thank you for sending yet another voice note! Tell us more about it, [[name]].	It would be really important for you to tell us a little bit more, would you?	

* These questions were only asked when the voice note in response to the previous question was shorter than 1 minute.

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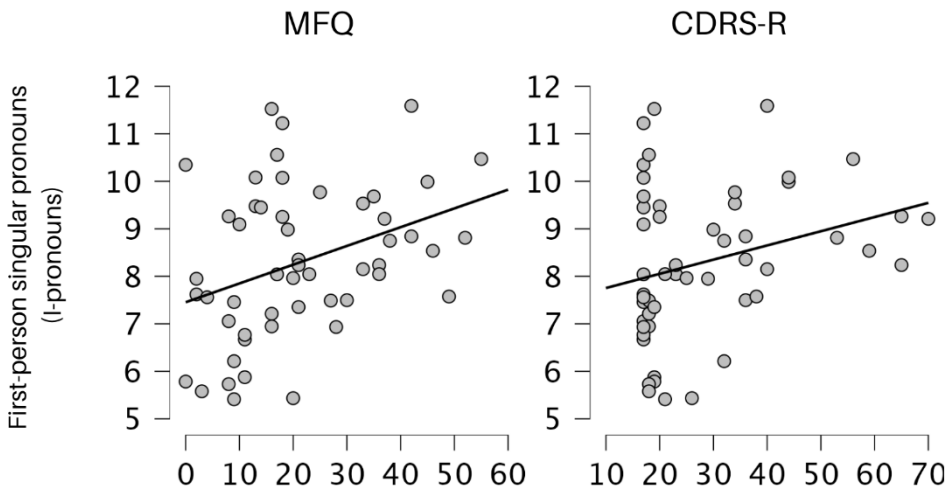
Supplementary Material S2 Correlation analysis

A) Correlation between depressive symptomatology measures and first-person singular pronouns

	I-pronouns	MFQ	CDRS-R
I-pronouns	–	ρ = **0.366** p = 0.008	ρ = 0.248 p = 0.076
MFQ	ρ = **0.366** p = 0.008	–	ρ = 0.582 p < 0.001
CDRS-R	ρ = 0.248 p = 0.076	ρ = 0.582 p < 0.001	–

CDRS-R= Children's Depression Rating Scale-Revised; MFQ = Mood and Feelings Questionnaire; ρ = Spearman's rho.

Correlation plot



The scatter plots illustrate Spearman's rank correlation between mean first-person singular pronouns (I-pronouns) use; self-reported depressive symptoms as quantified by the MFQ; and clinician-reported depressive symptoms as quantified by the CDRS. The solid line indicates the best fit. Analyses reveal a significant positive correlation between higher use of I-pronouns and increased self-reported depressive symptoms (ρ = 0.366, p = 0.008). CDRS-R= Children's Depression Rating Scale-Revised; MFQ = Mood and Feelings Questionnaire; ρ = Spearman's rho.

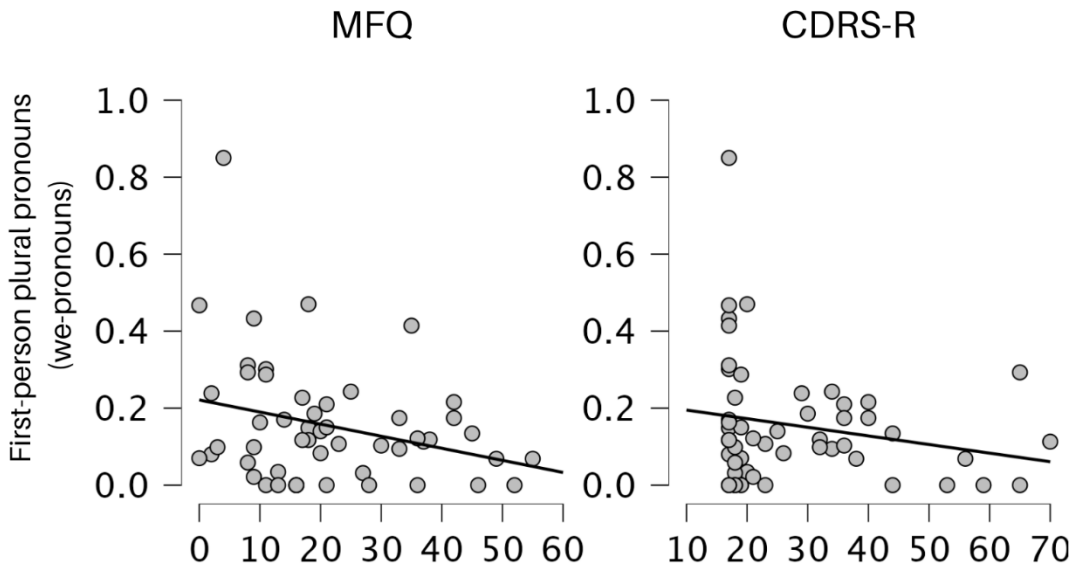
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B) Correlation between depressive symptomatology measures and first-person plural pronouns

	We-pronouns	MFQ	CDRS-R
We-pronouns	–	ρ = -0.205 p = 0.144	ρ = -0.204 p = 0.148
MFQ	ρ = -0.205 p = 0.144	–	ρ = **0.582** p < 0.001
CDRS-R	ρ = -0.204 p = 0.148	ρ = **0.582** p < 0.001	–

CDRS-R= Children's Depression Rating Scale-Revised; MFQ = Mood and Feelings Questionnaire; ρ = Spearman's rho.

Correlation plot



The scatter plots illustrate Spearman's rank correlation between mean first-person plural pronouns (we-pronouns) use; self-reported depressive symptoms as quantified by the MFQ; and clinician-reported depressive symptoms as quantified by the CDRS. The solid line indicates the best fit. Analyses reveal no significant correlation between use of we-pronouns and depressive symptoms, whether self-reported (ρ = -0.205, p=0.144) or clinician-rated (ρ = -0.204, p=0.148). MFQ=Mood and Feelings Questionnaire; CDRS-R=Children's Depression Rating Scale-Revised; ρ= Spearman's rho.

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Supplementary Material S3 Association between MFQ scores and I-pronoun use at Wave 2

At Wave 2 (two years after baseline assessment), IDEABot data collection followed the same protocol as described in Wave 3. However, only self-reported depressive symptomatology (MFQ) was recorded for each participant; no clinical assessment (using instruments such as the K-SADS-PL and the CDRS-R) was performed. Thus, at this stage, only correlational analysis with the MFQ was performed.
In this additional analysis, we included a total of 69 participants who completed all seven days of audio interactions (Table 1). These participants represented all available information for this wave. Unfortunately, not all participants included in the main analysis at W3 completed the IDEABot at W2. There was a significant association between MFQ scores and I-pronoun use ($\rho = 0.370$, $p = 0.002$).

Supplementary Table S1 Participants' characteristics

	n=69
Female gender[†]	36 (52.2%)
Total word count[‡]	1,192 (633)
First-person singular pronoun use[§]	8.612 (2.720)
First-person plural pronoun use[‡]	0.160 (0.290)
MFQ score[‡]	19 (27)

MFQ = Mood and Feelings Questionnaire.
[†] N (%).
[‡] Median (interquartile range).
[§] Mean (standard deviation).