Supplementary information – Teo AR, Horie K, Kurahara K, Kato TA. The Hikikomori Diagnostic Evaluation (HiDE): a proposal for a structured assessment of pathological social withdrawal. Letter to the Editor in press in *World Psychiatry*

HiDE was originally produced by Takahiro A. Kato and his lab members in the Hikikomori-Research Lab at Kyushu University. *World Psychiatry's* Introduction letter of HiDE was first written by Takahiro A. Kato and considerably re-written by Alan R. Teo.

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Hikikomori Diagnostic Evaluation Interview Form (HiDE-I)

Initials :	
Gender: Male • Female	Age
Test subject ID:	
Testing facility ID:	(Outpatient • Inpatient • Other)
Interviewer:	
Date and start time of interviews:	YYYY/MM/DD at XX:XX
Interview type (Check one) :	□ In person □ By telephone

In this interview, I will ask you questions about your life <u>in the past month</u>. If there is anything that you do not understand, please do not hesitate to ask questions. I will now begin with the interview.

1. Living alone or with others

During the past month, who have you been living with?

(Check all that apply.)			
□Live alone			
□Father	□Mother	□Siblings (Specify:)
□Grandfather	□Grandmother	□Other relatives (Specify:)
□Boyfriend/girlfriend	□Spouse	□Child(ren) (Specify:)
□Other (Specify:)
Describe any significal living situation, occupa	nt points related to	o the respondent's family structivant factors.	cture (genogram), their life history,
3 , ,	,		

2. Physical withdrawal

I will now ask you about the time you spent outside of your home during the past month.

a. Frequency of activities outside home		
During the past month, how many days per week did you spend an hour of going outside your home to do something, including going to work or schings like going shopping? Activities and chores like taking out the garbage, short walks, and late night trips to a convenience store are not included	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??	
This question is only for respondents living with others. If living alone, skip this question and proceed to b. During the past month, did you spend most of your time keeping to yourself in your room?		□ ₀ No □ ₁ Yes □ ₉ ??
b. Time spent outside home		
During the past month, on average, how much time per day did you spend outside your home?	□ ₁ Betv □ ₂ Betv □ ₃ Betw	ween 2–4 hours ween 1–2 hours ween 30 minutes–1 hour s than 30 minutes e
c. Time at workplace		
During the past month, how many days per week did you go to work? Here, "work" includes part-time jobs. If you were on vacation from your job, check "3: None". If you are not working (e.g., you are unemployed or a student, check '4: Not working)	, rr,	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₄ Not working □ ₉ ??
d. Time of ashaol		
During the past month, how many days per week did you go to school? If you are not a student, check "4: Not a student".		□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₄ Not a student □ ₉ ??

☐ If the response for frequency of act week," proceed to Section 3. Social ☐ Otherwise, continue with 2e—j.		he home in 2a was "4 or more days a
e. Physical withdrawal duration		
	Specify:	□o NA
For how long has this situation been going		□₁ Less than 3 months
on for with you rarely leaving the house?		□₂ Between 3–6 months
When did it start, specifically?		□₃ 6 months or more
		□9 ??
f. Reasons for physical withdrawal		
n reaction for physical minutana.	Specify:	(Check all that apply)
		□₁ Physical factors, such as injury or
		disease
		☐2 Psychological factors such as
Why do you think you started to rarely leave the house? Was there a reason or		anxiety or phobias □₃ Social factors such as
something that brought it about?		□₃ Social factors such as unemployment or dropping out of
o o		school
		□ ₄ To avoid infection (e.g., COVID)
		\square_5 Other (
		□9 ??
g. Insight regarding social withdrawal sy	mptom status (p	otentially hikikomori syndrome)
Do you know about the social withdrawal		1
syndrome called "hikikomori."		Know or not
If yes, ask the following questions:		□₀ No □₁ Yes □9 ??
		Cumonthy
Do you think your current situation could be considered an episode of "hikikomori"?		Currently □₀ No □₁ Yes □ゅ??
		LUINO L1 165 L9 !!
Do you think you had such an hikikomori		In the past
episode in the past?		□ ₀ No □ ₁ Yes □ ₉ ??
What makes you think so?		

h. Distress resulting from physical withdrawal	
	Felt distressed
During the past month, have you felt distressed or lonely because you were rarely going out?	□₀ No □₁Yes □ٶ ?? Felt lonely
, , , , ,	□ ₀ No □ ₁ Yes □ ₉ ??
If "1: Yes" was the response to either question, check "1: Yes" for Feelings of distress/loneliness.	→ Feelings of distress/loneliness
	□ ₀ No □ ₁ Yes □ ₉ ??
i. Familial expression of concern/seeking counseling as a result	of the subject's withdrawal
i. I diffind expression of concern/seeking counseling as a result	or the subject's withardwar
During the past month, have your family or people around you shown concern about you not going out frequently? Have they	Family showing concern
gone anywhere for counseling?	□₀ No □₁ Yes □ٶ ?? Counseling
If interviewing a child along with a family member or other household member,	□₀ No □₁ Yes □9 ??
you could say, for example, Do you have concerns about how infrequently your child gets out of the house?	→ Family showing concern or
Have you gone anywhere for counseling?	going for counseling
If either response is "yes", check "1: Yes" for Family concerns/counseling.	□ ₀ No □ ₁ Yes □ ₉ ??
j Functional impairment resulting from physical withdrawal	
During the past month has getting out infrequently had any	Work (School)
negative effects on your life?	\square_0 No \square_1 Yes \square_9 ?? Home life
For example, perverse effects such as not making progress in your	
work or studies, inability to do housework, worsening relationships with your family, or meeting friends less often.	□ ₀ No □ ₁ Yes □ ₉ ?? Friendships
To be evaluated based on the evaluator's judgement taking into consideration	□ ₀ No □ ₁ Yes □ ₉ ??
situations that can be considered objectively and family members' accounts.	→ Functional impairment
If any of the responses is "yes", then check "1: Yes" for Functional impairment.	□₀ No □₁ Yes □9 ??

3. Social participation

Now, I would like to ask about your attendance at work or school, and your other social activities during the last month.

a. Going to work	
During the past month, how many days per week did you go to work? This means they went to work at their workplace.	$□_0$ 4 or more days $□_1$ 2–3 days $□_2$ 1 day or less $□_3$ None $□_9$??
b. Working from home	
During the past month, how many days a week did you telework from home? "Telework" indicates working from a place other than one's workplace. This includes working from home.	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??
c. Going to school	
During the past month, how many days a week did you go to school? This refers to attending classes, school events, going to see the school nurse or to see a counselor. While this includes alternative schools such as free schools, privately funded education, such as cram schools, tutors, and college entrance preparatory schools, is asked about on the next page (Doing things for personal satisfaction).	
d. Attending school online	
During the past month how many days a week did you attend classes online? This refers to studies performed at home such as online classes, correspondence courses and home schooling.	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??
Total number of days per week from a-d when the subject worked of studied	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??

e. Doing things for one's personal life

During the past month, how many days per week did you go out and do something for your personal life? For example, taking a lesson, to go shopping with someone from your household, to eat out with a friend,		\square_0 4 or more days
		□ ₁ 2–3 days
		□₂ 1 day or less
attend a community gat	hering, or to volunteer	□3 None
somewhere.		□9 ??
	Specify:	(Check all that apply)
		□₁ Self-education (attended a cram school or college entrance prep school, or took a class)
		\square_2 Went out with another household member (to eat, shop, etc.)
What kinds of things did you go do?		□₃ Went out with others for fun (meals out with friends, hobby-related gatherings, etc.)
		□ ₄ Attended community group events (neighborhood association meetings, church services, etc.)
		□₅ Volunteering
		□ ₆ Other (
		□ ₇ Nothing
		□9 ??

f. Using medical/counseling center services

During the past month, how many days per week did you go to a medical or counseling center? For example, for outpatient care, daycare, counseling, employment transition support, vocational training or to get advice on welfare services available.		□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??
	Specify:	(Check all that apply)□1 Medical center (for outpatient care, daycare, counseling, etc.)
What kinds of services did you use?		□2 Counseling center (for employment transition support, vocational training, advice on welfare services available)
		□₃Other ()
		□4 None
		□9 ??

4. Social interaction

Next, I would like to ask you about your social interactions over the past month.

a. Interacting in person with others

During the last month, how many days per week did you have a conversation	□₀ 4 or more days
with someone other than members of your household in person (such as a	□1 2–3 days
friend, boyfriend/girlfriend, a person at work or at school)?	□₂ 1 day or less
"Interacting in person" consists of a conversation. That does not include simple exchanges	□ ₃ None
of greetings.	□9 ??
	□ ₀ 4 or more days
Ask this question only when the respondent lives with others. If the person lives alone, skip	□ ₀ 4 or more days □ ₁ 2–3 days
Ask this question only when the respondent lives with others. If the person lives alone, skip this question and proceed to b. How many days per week did you interact with other members of your	·
this question and proceed to b.	□ ₁ 2–3 days

b. Avoiding interactions with others in person (as perceived by respondent)

		•
	Specify:	□₀ Never
During the past month, did you avoid		□₁ Rarely (Less than 30% of the time)
talking with or interacting with others in person?		\square_2 Sometimes (around 50% of the time)
If yes, why?		□₃ Always (70% or more of the time)
		□9 ??

c. Indirect interaction with others

During this past month, how many days per week did you indirectly interact with someone other than members of your household (such as a friend, boyfriend/girlfriend, a person at work or at school? To "interact indirectly" refers to dealings that took place via telephone or email, or via the internet, for example, using a social networking system.	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??
Ask this question only when the respondent lives with others. If the person lives alone, skip this question and proceed to d. How many days per week did you interact indirectly with other members of your household?	□ ₀ 4 or more days □ ₁ 2–3 days □ ₂ 1 day or less □ ₃ None □ ₉ ??

d. Media used for indirect interaction

	. Media used for muliest interaction		
	Specify:	(Check all that apply)	
		□₁ Interacted via video (Skype, Zoom, videotelephone, etc.)	
During the past month, what media did you use		□₂ Interacted via audio alone (telephone, voice chat, etc.).	
to interact indirectly with others?		□₃ Interacted using written words alone, (via email, SMS, chat applications, or letters).	
		□ ₄ None	
		□9??	

[Summary]

1	Living alone or with others	□ ₀ Lives alone	□ ₁ Lives with others				
2a	Frequency of activities outside the home	\square_0 4 or more days/week	□ ₁ 2–3 days/week	\square_2 1 day or less/week	□ ₃ None	□9??	
	Physical withdrawal (to one's room)	□ ₀ No	□ ₁ Yes			□9 ??	
O.L.	Time spent outside the home	\Box_0 4 or more hours	□ ₁ 2–4 hours	□ ₂ 1–2 hours	□ ₃ 30 min-1 hour	∫ □ ₉ ??	
2b		□ ₄ Less than 30 min.	□ ₅ None				
2c	Time at workplace	\square_0 4 or more \square_1 2–3 days/week \square_2 1 day/week or less		□ ₃ None	- □9??		
		□ ₄ Not working					
2d	Time at school	□ ₀ 4 or more days/week	□₁2–3 days/week	□ ₂ 1 day/week or less	□ ₃ None	- □9??	
		□ ₄ Not a student					
2e	Physical withdrawal duration	□₀ NA	□ ₁ Less than 3 months	\square_2 Between 3–6 months	\square_3 6 months or more	□9??	
2f	Reasons for the physical withdrawal	□ ₁ Physical factors	□ ₂ Psychological factors	□₃ Social factors	□ ₄ Infection control	- □9??	
		□ ₅ Other				шу::	
2g	Insight regarding hikikomori status (Current)	□ ₀ No	□ ₁ Yes			□9??	
	Insight regarding hikikomori status (Past)	□ ₀ No	□ ₁ Yes			□9??	
2h	Feeling distressed	□ ₀ No	□ ₁ Yes			□ ₉ ??	
2i	Familial concern/counseling	□ ₀ No	□ ₁ Yes			□ ₉ ??	
2j	Functional impairment	□ ₀ No	□ ₁ Yes			□9??	
3	Work/school attendance	□ ₀ 4 or more days/week	□ ₁ 2–3 days/week	\square_2 1 day/week or less	□ ₃ None	□9??	
	Doing things for one's personal life	\square_0 4 or more days/week	□ ₁ 2–3 days/week	\square_2 1 day/week or less	□ ₃ None	□9??	
	Using medical/counseling center services	□ ₀ 4 or more days/week	□ ₁ 2–3 days/week	□ ₂ 1 day/week or less	□ ₃ None	□9??	
4a	Interacting in person with others (Not from same household)	□ ₀ 4 or more days/week	□ ₁ 2–3 days/week	\square_2 1 day/week or less	□ ₃ None	□9??	
	Interacting indirectly with others (Same household)	\square_0 4 or more days/week	□ ₁ 2–3 days/week	\square_2 1 day/week or less	□ ₃ None	□9??	
4b	Avoiding interaction with others in person (Self-assessed)	□ ₀ Never	□₁Rarely	\square_2 Sometimes	□ ₃ All the time	□9??	

4c	Interacting indirectly with others (Not the same household)	□ ₀ 4 or more days/week	□ ₁ 2–3 days/week	□ ₂ 1 day/week or less	□ ₃ None	□9??
	Interacting in person with others (same household)	\square_0 4 or more days/week	□₁2–3 days/week	□ ₂ 1 day/week or less	□ ₃ None	□9??
4d	Media used for indirect interaction	□ ₁ Video	□ ₂ Audio	□ ₃ In writing	□ ₄ None	□9??

[Hikikomori Diagnosis]

I Subject is physically withdrawn (Refer to frequency of outs	side activities in	2a)		
During the last month, the subject spent 3 days or less per week engaged in an activity outside the home for at least an hour.	□₀ No	□ ₁ \	Yes	□9 ??
I Presence of functional impairment and distress due to the to 2h. Feeling distressed; 2i. Familial concern/counseling, 2j. Fund			withdrawa	al (Refe
If the answer to I is "Yes" during the past month, because of I (the subject was physically withdrawn), are the subject and their family distressed and is the subject's social and professional (or academic) functioning impaired?	□o No	□1 \	Yes	□9 ??
■ Physical withdrawal duration (Refer to 2e. Physical withdra	wal duration)			
If the answers to $\ I$ and $\ II$ are "Yes", select the duration of I (physical isolation).	□ ₀ None		□1 Less 1 months □2 3–6 mo □3 6 or months □9 ??	onths
□₀ Not a case of hikikomori	I not met			
□₁ Case may resemble hikikomori, but is not a case of pathological hikikomori	I met, but no	ot II		
□₂ Subject is at risk of developing a case of pathological hikikomori	I and II met, months	but	Ⅲ is less	than 3
□₃ Prepathological hikikomori	I and II met, 6 months			
□4 Pathological hikikomori	I and II met, more	and	III is 6 mo	nths or

□9 ??

If I, \mathbb{I} or \mathbb{II} is ??

Supplemental Item A Social participation (See 3. Social participation)						
During the past month, social participation frequency was 3 days or less per week. Social participation includes total time spent at work, at school, on one's personal life, and at health care and counseling centers.			□₀ No (Social participation was adequate)	□₁ Yes (There was too little social participation)	□ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Supplemental item B In-person interac	ctions	(See 4a. Interact	ing with others	in person)		
		□ ₀ NA : 4 or mo	re days/week			
Frequencies of in-person interactions	Frequencies of in-person interactions with		□₁ Mild:2–3 days/week			
people other than members of the	same	□₂ Moderate : 1	day/week or les	SS	□9 ??	
nousehold with seventy ratings.	household with severity ratings.		□₃ Severe : Also has almost no direct interaction with household members			
Supplemental item C Indirect interacti			g indirectly with	others)		
During the past month, the frequency of indirect interactions with people other than members of the same household was 3 days or less per week.			□₀ No	□1 Yes	□9 ??	
Supplemental item D Loneliness (See 2h. Feeling lonely)						
During the past month, the subject felt lonely as a result of their being physically withdrawn.			□₀ No	□₁ Yes	□9 ??	
Supplemental item E Comorbid disorders (from the DSM-5)						
□₀ None						
□₁ Intellectual disabilities □₂ Aut	ism spe	ectrum disorder	□₃ Schizophrenia			
□4 Depression □5 Soc	cial anx	iety disorder	□6 PTSD			
□ 7 Avoidant personality disorder □ 8 (Spec				; d	isorders)	
□ ₉ Physical illnesses (Specify:)		
□10 ??						
Supplemental item F: Age at onset						
eappromontal from 1 1749 at onset			Specify:			
Note the subject's age at hikikomori onset,					□9 ??	

[Past Episodes of Hikikomori]

Have there been periods of time in the past when you hardly ever went out? For example, has there been a time when you almost never left your home, even to go to work, school, or shopping? Has there been a time when you completely stopped participating in any kind of social activity? Has there been a time when you stopped meeting up and socializing with people close to you, such as family, friends, or a romantic partner?

□ ₀ No(No past epis □ ₁ Yes(Past episod						
Around when did tha	t happen? (Conf	irm the numb	er of times	and duration	s)	
Number of episodes Episode durations:		to				
How long did the long	gest episode las	!?				
□₀ NA						
□₁ Less than 3 mont	hs					
□ ₂ Between 3–6 mor	nths					
□ ₃ 6 or more months	;					
□9 ??						
Please tell me more	about that time.					
Remarks:						

< Indicate when past episodes of social withdrawal (hikikomori) occurred>

(Example) Ages 10-19: Incidence of social withdrawal (hikikomori) as school refusal during middle school.

10 11 12 13 16 17 (1st year of middle (1st year of high school school Japan) Japan) Ages 0-9 (1st year of elementary school in school Japan) Ages 10-19 (1st year of (1st year of middle high school school in Japan) Japan) Age 20-29 Ages 30-39 Ages 40-49 Ages 50-59 Remarks:

[Hikikomori severity stage classification for the previous month]

	_					
☐ Living with others	□ Living alone					
[Stage 0X] ¹	[Stage 0Y] ²					
☐ Went out 4 or more days/week	☐ Went out 4 or more days/week					
$\hfill\Box$ Interacted with people other than other household	☐ Interacted in person with others 4 or more					
members in person 4 or more days/week	days/week					
[Stage 1X] ³	[Stage 1Y] ⁴					
□ Went out 2–3 days/week	☐ Went out 2–3 days/week					
□Interacted with people other than other household	□ Interacted in person with others 2–3					
members in person 2–3 days/week	days/week					
【Stage 2X】⁵	[Stage 2Y] ⁶					
□ Went out 1 day/week or less	☐ Went out 1 day/week or less					
□Interacted with people other than other household	□Interacted in person with others 1 day/week					
members in person 1 day/week or less	or less					
[Stage 3X] ⁷						
☐ Went out 1 day/week or less and almost never left						
their room						
□Interacted with people other than other household members in person 1 day/week or less and almost						
never interacted with other household members in						
person						
□₁ The subject had 2-way indirect interaction and telephone	ctions with others via the Internet					
□₀ The subject had almost no 2-way indirect interactions with anyone via the Internet or telephone.						
YM/han the haves shocked belong to different stages the	as stage with the higher number is to be used for					
When the boxes checked belong to different stages, the classification.	le stage with the higher number is to be used for					
Example: For a case in which both Stage 2X "Went out 1 day/week or less" and Stage 3X "Interacted						
	s in person 1 day/week or less and almost never					
interacted with other household members in person" apply, the case should be classified as Stage						
3X.						

Thank you for your time. Before finishing, please verify that there have been no omissions.

Indicate which stage applies to this case

【Stage 】 ()

Hikikomori Diagnostic Evaluation Screening Form (HiDE-S)

[These questions ask about your lifestyle. Please select the appropriate answer for each question below.]

1.	During the past one month, about how many days a week did you go out briefly, such as to take out the trash or visit a convenience store?
	\square_0 Four or more days/week \square_1 Two or three days/week \square_2 One day or less/week \square_3 None
2.	Setting aside times when you went out briefly as in #1 above, during the past one month, about how many days a week did you go out for an hour or more, including going out for work, school, shopping, and so on?
	\square_0 Four or more days/week \square_1 Two or three days/week \square_2 One day or less/week \square_3 None
3.	If you answered "four or more days/week" for #2, please select "None" here. If you answered anything else, about how long has it been that you have been going out at that frequency?
	\square_0 None \square_1 Less than three months \square_2 Between at least 3 months and less than 6 months
	□₃ 6 months or more (Specify:)
4.	During the past one month, how often do you feel you have gone out?
	□₀ Very often □₁ Often □₂ Somewhat often □₃ Not often □₄ Very seldom
5.	Does the frequency of how often you have gone out in the past one month bother you?
	□ ₀ No □ ₁ Yes
6.	Does the frequency of how often you have gone out in the past one month make you feel isolated or lonely?
	□ ₀ No □ ₁ Yes
7.	Has your family or people around you sought seemed to worry about the frequency of how often you have gone out in the past one month?
	□ ₀ No □ ₁ Yes
8.	Has your family or people around you sought help because of the frequency of how often you have gone out in the past one month?
	□₀ No □₁ Yes
9.	Has the frequency of how often you have gone out in the past one month disrupted your work or job search?
	□₀ No □₁ Yes
10.	Has the frequency of how often you have gone out in the past one month disrupted your relationships with family members?
	□₀ No □₁ Yes
11.	Has the frequency of how often you have gone out in the past one month disrupted your relationships with friends?
	□₀ No □₁ Yes
12.	Please select the choice that best fits your current situation. Multiple answers are allowed. If none apply, select "None."
	\square_1 I'm a student. \square_2 I work. \square_3 I'm on a long vacation. \square_4 I'm taking a leave of absence from
	school or work. □5 I'm preparing for college or employment. □6 I'm a homemaker. □7 I'm a
	domestic helper. □8 I'm unemployed. □9 I'm retired (after age limit). □0 None

This is the end of the questionnaire. Please submit after verifying that you have answered all questions. Thank you for your time.