Supplementary Table S1. ADI-R and ADOS Items Applied to Proposed DSM-V Criteria

		Under 4, Mod 1	Under 4, Mod 2	Under 4, Mod 3	4 to 10, Mod 1	4 to 10, Mod 2	4 to 10, Mod 3	Over 10, Mod 1	Over 10, Mod 2	Over 10, Mod 3-4
A1. Deficits in social-emotional reciprocity; ranging from abnormal social approach and failure of normal back and forth conversation through reduced sharing of interests, emotions, and affect and response to total lack of initiation of social interaction	ADI-R ITEMS (CUR.)	COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 COM46 SOCIAL51 ^a MOD1B12 MOD1B5 MOD1A6 MOD1A2 MOD1B8 MOD1B9 MOD1B10 MOD1B6 MOD1B2	COM34 COM35 COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 COM46 SOCIAL51a MOD2B8 MOD2B3 MOD2B6 MOD2B4 MOD2A2 MOD2B10 MOD2A6	COM34 COM35 COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 COM46 SOCIAL51a MOD3B7 MOD3B4 MOD3B9 MOD3A8 MOD3A5 MOD3A6	COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51 ^a MOD1B12 MOD1B5 MOD1A6 MOD1A2 MOD1B8 MOD1B9 MOD1B10 MOD1B6 MOD1B2	COM34 COM35 COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51a MOD2B8 MOD2B3 MOD2B6 MOD2B4 MOD2A2 MOD2B10 MOD2A6	COM34 COM35 COM31 SOCIAL61 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51a MOD3B7MO D3B4 MOD3B9 MOD3A8 MOD3A5 MOD3A6	COM31 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51a MOD1B12 MOD1B5 MOD1A6 MOD1A2 MOD1B8 MOD1B9 MOD1B10 MOD1B6 MOD1B2	COM34 COM35 COM31 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51a MOD2B8 MOD2B3 MOD2B6 MOD2B6 MOD2B4 MOD2A2 MOD2B10 MOD2A6	COM34 COM35 COM31 SOCIAL52 SOCIAL54 SOCIAL55 SOCIAL51 ^a MOD3B7/M OD4B9 MOD3&4B4 MOD3&4A8 MOD3&4A8 MOD3&4A8 MOD3&4A6

A2. Deficits in nonverbal communicative behaviors used for social interaction; ranging from poorly integrated- verbal and nonverbal communication, through	ADI-R ITEMS (CUR.)	SOCIAL50 COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	SOCIAL50 COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	SOCIAL50 COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56	COM42 COM43 COM44 COM45 SOCIAL57 SOCIAL56
abnormalities in eye contact and body-language, or deficits in understanding and use of nonverbal communication, to total lack of facial expression or gestures	ADOS ITEMS	MOD1B4 MOD1B7 ^b MOD1A7 MOD1B11 MOD1B1 MOD1B3 MOD1A8	MOD2A7 MOD2B7 MOD2B1 MOD2B2 MOD2A8	MOD3B1 MOD3B2 MOD3A9 MOD3B3 ^b	MOD1B4 MOD1B7 ^b MOD1A7 MOD1B11 MOD1B1 MOD1B3 MOD1A8	MOD2A7 MOD2B7 MOD2B1 MOD2B2 MOD2A8	MOD3B1 MOD3B2 MOD3A9 MOD3B3 ^b	MOD1B4 MOD1B7 ^b MOD1A7 MOD1B11 MOD1B1 MOD1B3 MOD1A8	MOD2A7 MOD2B7 MOD2B1 MOD2B2 MOD2A8	MOD3&4B1 MOD3&4B2 MOD3&4A9 MOD3&4B3 ^b MOD4A10 MOD4B5
A3. Deficits in developing and maintaining relationships, appropriate to developmental level (beyond those with caregivers); ranging from difficulties adjusting behavior to suit different social contexts through difficulties in sharing imaginative play	ADI-R ITEMS (CUR.)	SOCIAL58 SOCIAL53 SOCIAL59 SOCIAL62 SOCIAL63	COM36 SOCIAL58 SOCIAL53 SOCIAL59 SOCIAL62 SOCIAL63	COM36 SOCIAL58 SOCIAL53 SOCIAL59 SOCIAL62 SOCIAL63	SOCIAL58 SOCIAL53 SOCIAL59 SOCIAL62 SOCIAL63 COM49 SOCIAL64 SOCIAL35 SOCIAL66	COM36 SOCIAL58 SOCIAL53 SOCIAL62 SOCIAL63 COM49 SOCIAL64 SOCIAL35 SOCIAL66	COM36 SOCIAL58 SOCIAL53 SOCIAL62 SOCIAL63 COM49 SOCIAL64 SOCIAL35 SOCIAL66	SOCIAL58 SOCIAL53 SOCIAL59 SOCIAL35 SOCIAL66	COM36 SOCIAL58 SOCIAL53 SOCIAL59	COM36 SOCIAL58 SOCIAL53 SOCIAL59
and in making friends to an apparent absence of interest in people	ADOS ITEMS		MOD2B11 MOD2B9	MOD3B10 MOD3B8		MOD2B11 MOD2B9	MOD3B10 MOD3B8		MOD2B11 MOD2B9	MOD3B10/ MOD4B12 MOD3B8/ MOD4B10

B1. Stereotyped or repetitive speech, motor movements, or use of objects; (such as simple motor stereotypies, echolalia, repetitive use of objects, or idiosyncratic	ADI-R ITEMS(EVER) ADOS ITEMS	RRB69 RRB77 RRB78 MOD1A4 MOD1A5	COM33 COM37 COM38 RRB69 RRB77 RRB78	COM33 COM37 COM38 RRB69 RRB77 RRB78	RRB69 RRB77 RRB78 MOD1A4 MOD1A5	COM33 COM37 COM38 RRB69 RRB77 RRB78	COM33 COM37 COM38 RRB69 RRB77 RRB78	RRB69 RRB77 RRB78 MOD1A4 MOD1A5	COM33 COM37 COM38 RRB69 RRB77 RRB78	COM33 COM37 COM38 RRB69 RRB77 RRB78
phrases) ^c		MOD1D2 MOD1D4	MOD2D2 MOD2D4	MOD3D2	MOD1D2 MOD1D4	MOD2D2 MOD2D4	MOD3D2	MOD1D2 MOD1D4	MOD2D2 MOD2D4	MOD3&4D2
B2. Excessive adherence to routines, ritualized patterns of verbal or nonverbal behavior, or excessive resistance to change; (such as motoric rituals, insistence on same route or food, repetitive	ADI-R ITEMS (EVER)	RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75	RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75	RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75	COM39 RRB70 RRB74 RRB75
questioning or extreme distress at small changes)	ADOS ITEMS			MOD3D5			MOD3D5			MOD3&4D5
B3. Highly restricted, fixated interests that are abnormal in intensity or focus; (such as strong attachment to or	ADI-R ITEMS (EVER)	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76	RRB67 RRB68 RRB76

preoccupation with unusual objects, excessively circumscribed or perseverative interests)	ADOS ITEMS			MOD3D4			MOD3D4			MOD3&4D4
B4. Hyper-or hyporeactivity to sensory input or unusual interest in sensory aspects of environment; (such as apparent indifference to pain, heat, cold, adverse response to specific sounds or textures, excessive smelling	ADI-R ITEMS (EVER)	RRB72 RRB73 RRB71								
excessive smelling or touching of objects, fascination with lights or spinning objects)	ADOS ITEMS	MOD1D1	MOD2D1	MOD3D1	MOD1D1	MOD2D1	MOD3D1	MOD1D1	MOD2D1	MOD3&4D1

a = Moved from A2 based on experts' comments
 b = Added based on experts' comments
 c = Based on experts' comments, intonation items on ADI-R and ADOS removed from repetitive speech for all groups

Supplementary Table S2. ADI-R and ADOS Items Applied to DSM-IV-TR Criteria

Under 4, Under 4, Under 4, 4 to 10,	4 to 10, 4 to 10, Over 10, Over 10, Over 10,
Mod 1 Mod 2 Mod 3 Mod 1	Mod 2 Mod 3 Mod 1 Mod 2 Mod 3-4
A1 (a) Marked ADI-R SOCIAL50 SOCIAL50 SOCIAL50 SOCIAL50	
impairment in the use ITEMS SOCIAL57 SOCIAL57 SOCIAL57 COM43	
of multiple nonverbal (CUR) COM43 COM43 COM43 COM43	
behaviors such as eye- COM44 COM44 COM44 COM45	COM44 COM44 COM44 COM44 COM44 COM45 COM45
to-eye gaze, facial COM45 COM45 COM45 SOCIAL	
expression, body SOCIAL56 SOCIAL56 SOCIAL56	30 SOCIAL30 SOCIAL30 SOCIAL30 SOCIAL30
	14 140000
1 IBOS MOBIBII MOBES	
112110 11102111	
interaction MOD1A8 MOD2A8 MOD3A9 MOD1A	
MOD1B1 MOD2B1 MOD3B1 MOD1B	
MOD1B3 MOD2B2 MOD3B2 MOD1E	
MOD1B4 MOD1E	
MOD1B7 ³ MOD1E	
MOD3B3	MOD3B3 MOD3&4B3
	MOD4A10
	MOD4B5
A1 (b) Failure to ADI-R SOCIAL62 SOCIAL62 SOCIAL62 SOCIAL	
develop peer ITEMS SOCIAL63 SOCIAL63 SOCIAL63 SOCIAL	
relationships (CUR) SOCIAL	
appropriate to SOCIAI	
developmental level ADOS Not Not Not Not	
ITEMS Available Available Available Available Availa	ble Available Available Available Available Available
A1 (c) A lack of ADI-R SOCIAL52 SOCIAL52 SOCIAL52 SOCIAL	52 SOCIAL52 SOCIAL52 SOCIAL52 SOCIAL52
spontaneous seeking ITEMS SOCIAL54 SOCIAL54 SOCIAL54 SOCIAL	54 SOCIAL54 SOCIAL54 SOCIAL54 SOCIAL54
to share enjoyment, (CUR) COM42 COM42 COM42 COM42	COM42 COM42 COM42 COM42 COM42
interests, or ADOS MOD1B5 MOD2B3 MOD3B4 MOD1B	5 MOD2B3 MOD3B4 MOD1B5 MOD2B3 MOD3&4B4
achievements with ITEMS MOD1B8 MOD1B	
other people MOD1B9 MOD2B5 MOD1E	
MOD1B10 MOD2B6 MOD1E	
MOD1A2 MOD1A	
MOD2A2	MOD2A2 MOD2A2
MOD3A5	MOD3A5 MOD3&4A5
A1 (d) Lack of social ADI-R SOCIAL55 SOCIAL55 SOCIAL55 SOCIAL	
or emotional ITEMS SOCIAL59 SOCIAL59 SOCIAL59 SOCIAL	
reciprocity (CUR) SOCIAL53 SOCIAL53 SOCIAL53 SOCIAL	
COM31 COM31 COM31 COM31	COM31 COM31 COM31 COM31
COM46 COM46 COM46	
SOCIAL58 SOCIAL58 SOCIAL58 SOCIAL	58 SOCIAL58 SOCIAL58 SOCIAL58 SOCIAL58
SOCIAL51 ¹ SOCIAL51 ¹ SOCIAL51 ¹ SOCIAL	

	ADOS ITEMS	MOD1B12 MOD1A6 MOD1B6 MOD1B2 ¹	MOD2B8 MOD2B4 MOD2B9 MOD2B11 MOD2B10	MOD3B7 MOD3B8 MOD3B10 MOD3B9	MOD1B12 MOD1A6 MOD1B6 MOD1B2 ¹	MOD2B8 MOD2B4 MOD2B9 MOD2B11 MOD2B10	MOD3B8 MOD3B10 MOD3B9	MOD1B12 MOD1A6 MOD1B6 MOD1B2 ¹	MOD2B8 MOD2B4 MOD2B9 MOD2B11 MOD2B10	MOD3B7/ MOD4B9 MOD3B8/ MOD4B10 MOD3B10/ MOD4B12 MOD3B9/ MOD4B11
A2 (a) Delay in, or total lack of, the development of spoken language (not accompanied by an attempt to compensate through alternative	ADI-R ITEMS (CUR)	Defined based on "Overall Level of Language" and Gestures (LANG35)								
modes of communication such as gesture or mime	ADOS ITEMS	Defined based on Module and Gestures (MOD1A8)	Defined based on Module and Gestures (MOD2A8)	Defined based on Module and Gestures (MOD3A9)	Defined based on Module and Gestures (MOD1A8)	Defined based on Module and Gestures (MOD2A8)	Defined based on Module and Gestures (MOD3A9)	Defined based on Module and Gestures (MOD1A8)	Defined based on Module and Gestures (MOD2A8)	Defined based on Module and Gestures (MOD3A9/ MOD4A9)
A2 (b) In individuals with adequate speech, marked impairment in	ADI-R ITEMS (CUR)	Not applicable	COM34 COM35	COM34 COM35	Not applicable	COM34 COM35	COM34 COM35	Not applicable	COM34 COM35	COM34 COM35
the ability to initiate or sustain a conversation with others	ADOS ITEMS	Not applicable	MOD2A6	MOD3A8 MOD3A6	Not applicable	MOD2A6	MOD3A8 MOD3A6	Not applicable	MOD2A6	MOD3&4A8 MOD3&4A6
A2 (c) Stereotyped or repetitive use of language or idiosyncratic language	ADI-R ITEMS (CUR) ADOS ITEMS	Not applicable MOD1A4 MOD1A5	COM33 COM37 COM38 MOD2A4 MOD2A5	COM33 COM37 COM38 MOD3A3 MOD3A4	Not applicable MOD1A4 MOD1A5	COM33 COM37 COM38 MOD2A4 MOD2A5	COM33 COM37 COM38 MOD3A3 MOD3A4	Not applicable MOD1A4 MOD1A5	COM33 COM37 COM38 MOD2A4 MOD2A5	COM33 COM37 COM38 MOD3&4A3 MOD3&4A4
A2 (d) Lack of varied, spontaneous make- believe play or social imitative play	ADI-R ITEMS (CUR)	SOCIAL61 COM48 COM47	SOCIAL61 COM48 COM47	SOCIAL61 COM48 COM47	SOCIAL61 COM48 COM47 COM49	SOCIAL61 COM48 COM47 COM49	SOCIAL61 COM48 COM47 COM49	Not applicable	Not applicable	Not applicable
appropriate to developmental level	ADOS ITEMS	MOD1C2	MOD2C2	MOD3C1	MOD1C2	MOD2C2	MOD3C1	MOD1C2	MOD2C2	MOD3&4C1

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A3 (a) Encompassing preoccupation with one or more stereotyped and restricted patterns of	ADI-R ITEMS (CUR)	RRB67 RRB68 RRB76								
interest that is abnormal either in intensity or focus	ADOS ITEMS	Not available	Not available	MOD3D4 ⁴	Not available	Not available	MOD3D4 ⁴	Not available	Not available	MOD3&4D4 ⁴
A3 (b) Apparently inflexible adherence to specific, nonfunctional routines or rituals	ADI-R ITEMS (CUR)	RRB70 RRB74 RRB75	RRB70 RRB74 RRB75 COM39	RRB70 RRB74 RRB75 COM39	RRB70 RRB74 RRB75	RRB70 RRB74 RRB75 COM39	RRB70 RRB74 RRB75 COM39	RRB70 RRB74 RRB75	RRB70 RRB74 RRB75 COM39	RRB70 RRB74 RRB75 COM39
	ADOS ITEMS	Not applicable	Not applicable	MOD3D5	Not applicable	Not applicable	MOD3D5	Not applicable	Not applicable	MOD3&4D5
A3 (c) Stereotyped and repetitive motor mannerisms	ADI-R ITEMS (CUR)	RRB78 RRB77								
	ADOS ITEMS	MOD1D2	MOD2D2	MOD3D2	MOD1D2	MOD2D2	MOD3D2	MOD1D2	MOD2D2	MOD3&4D2
A3 (d) Persistent preoccupation with parts of objects	ADI-R ITEMS (CUR)	RRB69 RRB71 ³								
	ADOS ITEMS	MOD1D4 MOD1D1	MOD2D4 MOD2D1	MOD3D1	MOD1D4 MOD1D1	MOD2D4 MOD2D1	MOD3D1	MOD1D4 MOD1D1	MOD2D4 MOD2D1	MOD3&4D1
B. Delays or abnormal functioning in at least 1 of the following areas, with onset prior to age 3 years: (1) social interaction, (2)	ADI-R ITEMS (CUR)	Defined by ADI-R section D total score								
language as used in social communication, or (3) symbolic or imaginative play	ADOS ITEMS	Not applicable								

Note:

¹Moved from A1 (a) based on experts' comments

²Based on experts' comments, the intonation itemwas removed from repetitive speech for all groups

³Added based on experts' comments

⁴ Moved from A3(d) based on experts' comments