Supplement 1

**Summary of classification criteria for Unusual Perceptual Experiences, Thoughts and Beliefs (UPTBs) for the Adolescent Brain Development Study1**

**Summary of UPTB rating and classification criteria**

All data reported in response to questions about hallucinatory or delusional experiences were rated according to the following categories:

**Definite UPTB:** The reported experience was definitely hallucinatory or delusional in nature

**Weak UPTB:** The reported experience had hallucinatory or delusional qualities but the perception, thought or belief was not strong or convincing enough to be classified as a definite psychotic experience

**Not a UPTB:** No evidence that the reported experience had any hallucinatory or delusion-like qualities

Participants who had at least one experience that was rated by consensus as a Definite UPTB were classified as having experienced UPTBs for the study. Being rated as having weak UPTBs only was insufficient to be classified as having UPTBs in this study. The table below gives examples of how experiences were defined for the purposes of rating.

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| HALLUCINATORY EXPERIENCES |  |
| **Auditory Verbal Phenomena** | DEFINITE UPTBHearing one or more voices saying at least one wordHearing whispering or indistinct voices at normal volume or shoutingHearing name being called only if attributed to a delusional belief about another entity calling the name (e.g. a ghost)Brief episodes of hearing own thoughts aloud when associated with delusional ideation and are either distressing or disorganising WEAK UPTBBrief episodes of hearing own thoughts aloud when not associated with delusional ideation and are neither distressing nor disorganising NOT A UPTBHypnagogic and hypnopompic auditory verbal experiences  |
| **Auditory Non-verbal Phenomena** | DEFINITE UPTBHearing non-verbal sounds that are experienced as distressing or disorganisingHearing non-verbal sounds that are associated with delusional ideationWEAK UPTBBrief auditory experiences such as hearing music or other non-verbal sounds (e.g. hearing footsteps or knocking sounds) in the absence of any associated delusional ideation NOT A UPTBHypnagogic and hypnopompic non-verbal auditory experiences  |
| **Non-auditory Perceptual Phenomena** | DEFINITE UPTBSeeing figures or forms that are not there (e.g. ghosts, human forms, aliens, the devil)Tactile sensations that are associated with delusional attributionWEAK UPTBRecurrent experiences of smelling food that is not thereNOT A UPTBHypnagogic and hypnopompic visual experiencesVisual illusionsOccasional experiences of smells or tastes without any associated distress |
| DELUSION-LIKE EXPERIENCES |  |
| **Unusual Thoughts and Beliefs** | DEFINITE UPTBDelusional beliefs pertaining to any of the hallucinatory experiences in Domains 1-3Definite and fixed beliefs about being watched by a person, entity or organisation Recurrent and unfounded paranoid ideas that other people are criticising the individualBeliefs that non-human entities (e.g. ghosts, spirits, aliens, the devil) are communicating directly with the individual Unshakable nihilistic beliefsMind reading (self or others) when accompanied by paranoid beliefs that the individual has been singled out to have his/her mind read for a negative or nefarious purposeWEAK UPTBVague sense or thought that individual is being watched Mind reading (self or others) if not accompanied by a belief that the individual has been singled out to have his/her mind read for a negative or nefarious purposeMagical thinking (e.g. a belief that the individual can predict the future) if not accompanied by distress or leading to disorganisationNO UPTBThoughts and beliefs about being watched, judged or criticised by others that occur due to self-consciousness A belief in ghosts, spirits or aliens are responsible or can influence experiences when such beliefs are aligned to normative cultural or subcultural beliefsSubcultural beliefs that the world is coming to an endSubcultural conspiracy beliefs |

NOTE: Exclusions: Hallucinatory experiences that occur in the context of an organic illness or that occur during acute intoxication. Descriptions are not exhaustive

1 UPTBs have also been referred to as psychotic symptoms or psychotic experiences in other papers from the ABD study