

## Supplemental Material S2. Excluded papers at the eligibility stage

<b>Author (Date)</b>	<b>Reason for exclusion</b>
Abad (2007)	No comparison group, only a CAS group
Adams (1998)	Not CAS
Ahmed, Raja, Nuguid, and Al-Shmary (2012)	No comparison group, only a CAS group
Ahmed, Raja, Nuguid, and Al-Shmary (2012)	CAS only compared to typically developing children, not another SSD
Alcock, Passingham, Watkins, and Vargha-Khadem (2000)	No comparison group, only a CAS group
Alcock, Passingham, Watkins, and Vargha-Khadem (2000)	No comparison group, only a CAS group
Amato and Slavin (1998)	No comparison group, only a CAS group
Aplin (1987)	Methodology not diagnostic or marker study
Aram and Horwitz (1983)	No comparison group, only a CAS group
Arroyo (2011)	CAS only compared to typically developing children, not another SSD
Arvedson, Rudolph, and Kerschner (2004)	No comparison group, only a CAS group
Ayres and Mailloux (1981)	No comparison group, only a CAS group
Ball (1999)	No comparison group, only a CAS group
Ball, Bernthal, and Beukelman (2002)	No comparison group, only a CAS group
Basso and Scarpa (1990)	No comparison group, only a CAS group
Bat-El (2009)	CAS only compared to typically developing children, not another SSD
Begeer, Haaxma, Snoek, Boonstra, and le Coultre (1986)	No comparison group, only a CAS group
Bellinger et al. (1999)	No comparison group, only a CAS group

Belmonte et al. (2013)	No comparison group, only a CAS group
Belton, Salmond, Watkins, Vargha-Khadem, and Gadian (2003)	No comparison group, only a CAS group
Benítez-Burraco (2008)	No comparison group, only a CAS group
Berkovic and Scheffer (1997)	No comparison group, only a CAS group
Boni et al. (2006)	No comparison group, only a CAS group
Boucher (2014)	Not CAS
Boyar et al. (2001)	Methodology not diagnostic or marker study
Braddock, Farmer, Deidrick, Iverson, and Maria (2006)	No comparison group, only a CAS group
Bridgeman and Snowling (1988)	CAS only compared to typically developing children, not another SSD
Broomfield and Dodd (2004)	Not CAS
Broussolle et al. (1996)	No comparison group, only a CAS group
Brunner et al. (2007)	No comparison group, only a CAS group
Carole Samango-Sprouse and Rogol (2002)	No comparison group, only an XXY group with suspected CAS
Carr et al. (2010)	No comparison group, only a CAS group
Caspari, Strand, Kotagal, and Bergqvist (2008)	No comparison group, only a CAS group
Chéliout-Héraut, Picard, Bouskraoui, and Lacert (1999)	CAS only compared to typically developing children, not another SSD
Chilosi et al. (2015)	No comparison group, only a CAS group
Connaghan and Patel (2012)	No comparison group, only a CAS group
Curie et al. (2014)	Not CAS
Davis, Jacks, and Marquardt (2005)	No comparison group, only a CAS group
Davis, Jakielski, and Marquardt (1998)	No comparison group, only a CAS group

de Farias, de Avila, and Vieira (2006)	CAS only compared to typically developing children, not another SSD
De Oliveira, Neri, De Medeiros, Guimarães, and Guerreiro (2010)	No comparison group, only a CAS group
De Witte et al. (2017)	No comparison group, only a CAS group
Demirci (2006)	No comparison group, only a CAS group
Dewaele, Bartolo, Macchi, and Cautillon (2015)	Not CAS
Dewey (1995)	Methodology not diagnostic or marker study
Dewey, Roy, Square-Storer, and Hayden (1988)	No comparison group, only a CAS group
Eising et al. (2018)	No comparison group, only a CAS group
Ekelman and Aram (1983)	No comparison group, only a CAS group
Estes and Hertz (2013)	No comparison group, only a CAS group
Fabus (2006)	Not CAS
Fedorenko et al. (2016)	No comparison group, only a CAS group
Ferry, Hall, and Hicks (1975)	No comparison group, only a CAS group
Feuk et al. (2006)	No comparison group, only a CAS group
Froud and Khamis-Dakwar (2012)	CAS only compared to typically developing children, not another SSD
Gizzonio et al. (2015)	No comparison group, only a CAS group
Green, Wilson, Wang, and Moore (2007)	Not CAS
Grigos (2005)	Dissertation with same data as published article.
Grigos and Case (2018)	CAS only compared to typically developing children, not another SSD
Grigos and Kolenda (2010)	CAS only compared to typically developing children, not another SSD
Grigos, Moss, and Lu (2015)	CAS only compared to typically developing children, not another SSD

Grigos, Saxman, and Gordon (2005)	Not CAS
Groenen, Maassen, and Crul (1998)	CAS only compared to typically developing children, not another SSD
Groenen, Maassen, Crul, and Thoonen (1996)	CAS only compared to typically developing children, not another SSD
Gubbay (1978)	No comparison group, only a CAS group
Hage (1999)	No comparison group, only a CAS group
Hall et al. (1986)	No comparison group, only a CAS group
Hansen et al. (1996)	No comparison group, only a CAS group
Hermansen, Jensen, and Ibsen (1985)	Methodology not diagnostic or marker study
Highman, Hennessey, Leitao, and Piek (2013)	CAS only compared to typically developing children, not another SSD
Highman, Hennessey, Sherwood, and Leitao (2008)	Not CAS
Highman, Leitao, Hennessey, and Piek (2012)	CAS only compared to typically developing children, not another SSD
Horwitz (1984)	Methodology not diagnostic or marker study
Hosom, Shriberg, and Green (2004)	No comparison group, only a CAS group
Huber-Okraïneç, Dennis, Brettschneider, and Spiegler (2002)	No comparison group, only a CAS group
Ingram (2015)	CAS only compared to typically developing children, not another SSD
Jacks, Marquardt, and Davis (2006)	No comparison group, only a CAS group
Kadis et al. (2014)	CAS only compared to typically developing children, not another SSD
Karlov, Dondovyn, and Gnezditsky (2004)	No comparison group, only a CAS group
King, Jones, and Lasky (1982)	No comparison group, only a CAS group
Kummer, Lee, Stutz, Maroney, and Brandt (2007)	CAS only compared to typically developing children, not another SSD
Laffin et al. (2012)	No comparison group, only a CAS group

Le Normand and Chevrie-Muller (1991)	No comparison group, only a CAS group
Le Normand, Vaivre-Douret, Payan, and Cohen (2000)	No comparison group, only a CAS group
Le Normand, Vinter, and Konopczynski (1993)	No comparison group, only a CAS group
Lemkes (2010)	CAS only compared to typically developing children, not another SSD
Lennon et al. (2007)	No comparison group, only a CAS group
Lewis and Freebairn (1997)	No comparison group, only a CAS group
Lewis et al. (2011)	No comparison group, only a CAS group
Maassen, Groenen, and Crul (2003)	CAS only compared to typically developing children, not another SSD
Maassen, Nijland, and van der Meulen (2001)	No comparison group, only a CAS group
MacDermot et al. (2005)	No comparison group, only a CAS group
Marien et al. (2008)	No comparison group, only a CAS group
Marignier et al. (2012)	No comparison group, only a CAS group
Marion, Sussman, and Marquardt (1993)	No comparison group, only a CAS group
Marquardt, Jacks, and Davis (2004)	No comparison group, only a CAS group
Marquardt, Sussman, Snow, and Jacks (2002)	No comparison group, only a CAS group
McCabe, Rosenthal, and McLeod (1998)	No comparison group, only a CAS group
McCormick (2000)	Methodology not diagnostic or marker study
McLaughlin and Kriegsmann (1980)	No comparison group, only a CAS group
McNeill (2015)	No comparison group, only a CAS group
McNeill and Gillon (2013)	No comparison group, only a CAS group
Milloy and Summers (1989)	No comparison group, only a CAS group

Mills, Gosling, and Sell (2006)	No comparison group, only a CAS group
Murdoch, Attard, Ozanne, and Stokes (1995)	CAS only compared to typically developing children, not another SSD
Murray, Thomas, and McKechnie (2018)	No comparison group, only a CAS group
Namasivayam et al. (2013)	Not CAS
Nelson, Waggoner, Donnell, Tuerck, and Buist (1991)	No comparison group, only a CAS group
Newmeyer et al. (2009)	No comparison group, only a CAS group
Nijland, Maassen, and Der Meulen (2003)	CAS only compared to typically developing children, not another SSD
Nijland, Maassen, and van der Meulen (2002)	CAS only compared to typically developing children, not another SSD
Nijland, Terband, and Maassen (2015)	CAS only compared to typically developing children, not another SSD
Nikoghosyan-Bossen (2018)	No comparison group, only a CAS group
Northam et al. (2012)	Not CAS
Odell and Shriberg (2001)	No comparison group, only a CAS group
Otten and Walther (2012)	No comparison group, only a CAS group
Overby and Caspari (2015)	CAS only compared to typically developing children, not another SSD
Pal (2011)	No comparison group, only a CAS group
Pal, Li, Clarke, Lieberman, and Strug (2010)	No comparison group, only a CAS group
Palka et al. (2012)	No comparison group, only a CAS group
Park and Byeon (2015)	CAS only compared to typically developing children, not another SSD
Patel and Connaghan (2014)	No comparison group, only a CAS group
Peter (2012)	Not CAS
Peter and Raskind (2011)	No comparison group, only a CAS group

Peter and Stoel-Gammon (2005)	CAS only compared to typically developing children, not another SSD
Peter and Stoel-Gammon (2008)	CAS only compared to typically developing children, not another SSD
Peter et al. (2016)	No comparison group, only a CAS group
Peter, Button, Stoel-Gammon, Chapman, and Raskind (2013)	No comparison group, only a CAS group
Peter, Matsushita, Oda, and Raskind (2014)	No comparison group, only a CAS group
Pierpont et al. (2010)	No comparison group, only a CAS group
Polan et al. (2014)	No comparison group, only a CAS group
Polivara (2015)	No comparison group, only a CAS group
Pollock and Hall (1991)	No comparison group, only a CAS group
Poretti et al. (2014)	No comparison group, only a CAS group
Posod (2013)	No comparison group, only a CAS group
Prater et al. (2012)	No comparison group, only a CAS group
Preston et al. (2014)	CAS only compared to typically developing children, not another SSD
Rabin, Millan, Cabrera-Luque, and Pappas (2018)	No comparison group, only a CAS group
Raca et al. (2013)	No comparison group, only a CAS group
Rasmussen, Andreassen, Stromme, and Hansen (1996)	No comparison group, only a CAS group
Redle et al. (2015)	Not CAS
Robertson, Singh, Guerrero, Hundley, and Elsas (2000)	No comparison group, only a CAS group
Rosenbek (1980)	Methodology not diagnostic or marker study
Rosenbek and Wertz (1972)	No comparison group, only a CAS group
Samango-Sprouse et al. (2016)	No comparison group, only a CAS group

Scheffer et al. (1995)	No comparison group, only a CAS group
Schumacher, Strand, and Augustyn (2015)	No comparison group, only a CAS group
Sealey and Giddens (2010)	CAS only compared to typically developing children, not another SSD
Sengoku, Kanazawa, Fujitake, Kawai, and Yamaguchi (1985)	No comparison group, only a CAS group
Shahin et al. (2015)	No comparison group, only a CAS group
Shelton (2002)	No comparison group, only a CAS group
Shriberg (2012)	Methodology not diagnostic or marker study
Shriberg et al. (1997c)	Methodology not diagnostic or marker study – results in Shriberg et al. (1997b)
Shriberg et al. (2006)	No comparison group, only a CAS group
Shriberg et al. (2010)	Methodology not diagnostic or marker study
Smith (2004)	CAS only compared to typically developing children, not another SSD
Snowling and Stackhouse (1983)	CAS only compared to typically developing children, not another SSD
Soblet et al. (2018)	No comparison group, only a CAS group
Sorensen (1997)	No comparison group, only a CAS group
Speirs and Dean (1989)	CAS only compared to typically developing children, not another SSD
Spinelli, Rocha, Giacheti, and Richieri-Costa (1995)	No comparison group, only a CAS group
Stackhouse (1992)	No comparison group, only a CAS group
Stackhouse and Snowling (1992)	CAS only compared to typically developing children, not another SSD
Sussman, Marquardt, and Doyle (2000)	CAS only compared to typically developing children, not another SSD
Sussman, Marquardt, Doyle, and Knapp (2002)	CAS only compared to typically developing children, not another SSD
Tate (1990)	No comparison group, only a CAS group

Terband, van Brenk, and van Doornik-van der Zee (2014)	Not CAS
Thevenon et al. (2013)	No comparison group, only a CAS group
Thomas (2014)	CAS only compared to typically developing children, not another SSD
Thoonen and et al. (1994)	CAS only compared to typically developing children, not another SSD
Thoonen, Maassen, Gabreëls, Schreuder, and De Swart (1997)	CAS only compared to typically developing children, not another SSD
Tierney et al. (2015)	No comparison group, only a CAS group
Togram (2015)	No comparison group, only a CAS group
Tubul-Lavy (2012)	No comparison group, only a CAS group
Tükel, Björelilius, Henningsson, McAllister, and Eliasson (2015)	No comparison group, only a CAS group
Turner et al. (2013)	No comparison group, only a CAS group
van der Merwe, Uys, Loots, Grimbeek, and Jansen (1989)	No comparison group, only a CAS group
Van Uden (1981)	Methodology not diagnostic or marker study
Vargas and Narbona (2002)	No comparison group, only a CAS group
Vernes et al. (2006)	No comparison group, only a CAS group
Vernes, MacDermot, Monaco, and Fisher (2009)	No comparison group, only a CAS group
Vose (2018)	CAS only compared to typically developing children, not another SSD
Waisbren et al. (2012)	Adults not children
Walton and Pollock (1993)	No comparison group, only a CAS group
Watkins, Dronkers, and Vargha-Khadem (2002)	No comparison group, only a CAS group
Watkins, Vargha-Khadem, et al. (2002)	No comparison group, only a CAS group
Weistuch and Schiff-Myers (1996)	No comparison group, only a CAS group

Wertzner, Pagan-Neves, Alves, and Barrozo (2013)	CAS only compared to typically developing children, not another SSD
Whaley (1985)	Not CAS
Wiley, Choo, Meinzen-Derr, Hilbert, and Greinwald (2006)	No comparison group, only a CAS group
Wilson and Dyson (1982)	No comparison group, only a CAS group
Worthey et al. (2013)	No comparison group, only a CAS group
Zerem et al. (2011)	No comparison group, only a CAS group

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