

A REVIEW OF THE LATEST RESEARCH ON SELECTIVE MUTISM TREATMENTS, MECHANISMS, AND CORRELATES

AUGUST 13, 2021

PRESENTER: RACHEL MERSON, PSY.D.
MODERATOR: KATELYN REED, MS, LLP
SELECTIVE MUTISM ASSOCIATION

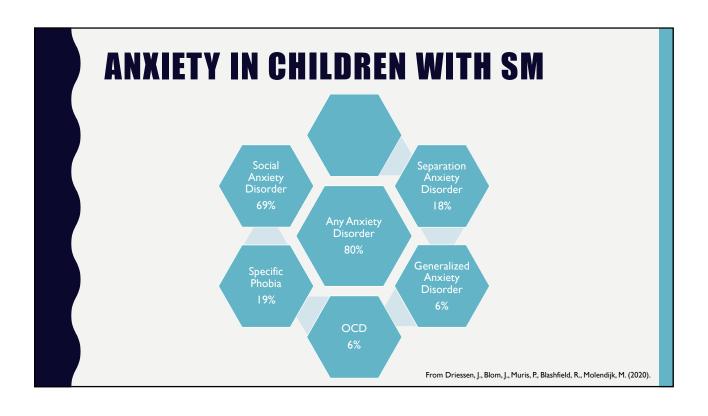
ASSOCIATION



AGENDA

- Classification
- Assessment
- Treatment
- Correlates
- Questions





FEARS IN CHILDREN WITH SM

Social Fears - 67%

- Negative Reaction (35%)
- Social Evaluation (23%)
- Interactional Fears (12%)
- Observational Fears (12%)
- Showing Anxiety Symptoms (5%)

Fear of Mistakes – 40%

- · Giving an incorrect answer
- Saying something wrong
- Deviating from expectations

Language Related Fears – 12%

• Related to pronunciation, grammar, etc.

Voice Related Fears – 7%

· Related to the sound of one's voice

From Vogel, F., Gensthaler, A., Stahl, J., & Schwenck, C. (2019).

FEAR-RELATED ASPECTS

Attentional Focus on Bodily Symptoms – 21%

• Focus on accelerated heartbeat, muscle tension, lump in throat, etc.

Attentional Focus on Thoughts – 12%

• Excessive rehearsal of speech, rumination about speaking

Overwhelming Anxiety – 7%

· Paralyzing anxiety, emptiness of mind

Avoidance Mechanism – 4%

• Silence to gain control or prevent negative consequences

From Vogel, F., Gensthaler, A., Stahl, J., & Schwenck, C. (2019).

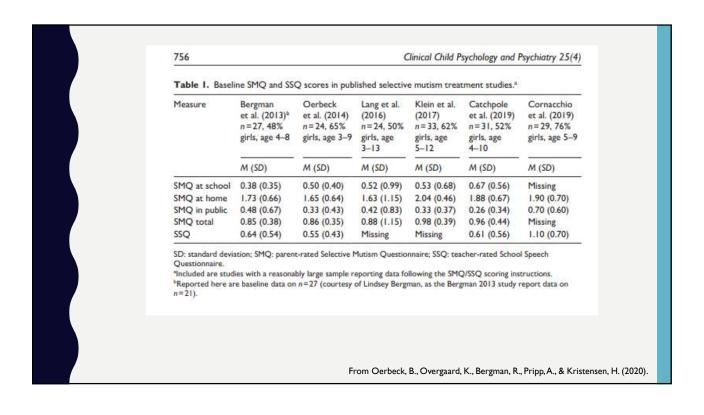


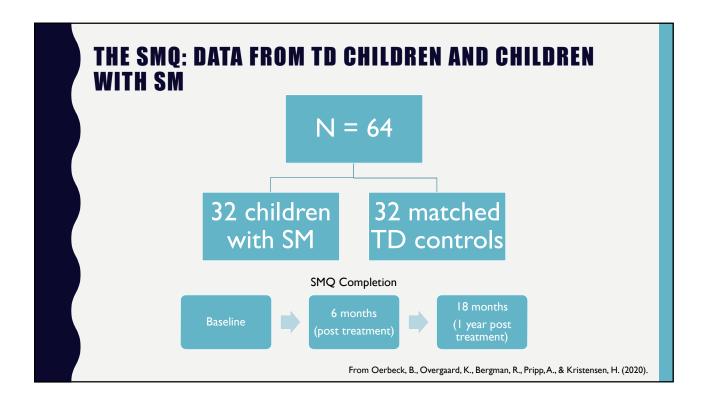
ASSESSMENT SMQ - Selective Mutism Questionnaire (2008) • Frankfurt Scale of Selective Mutism (2020)

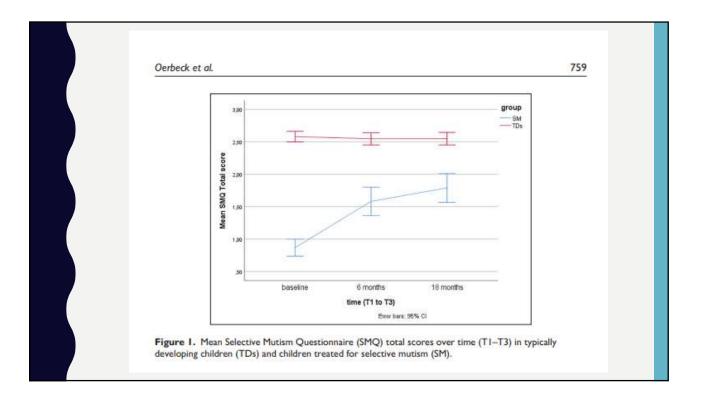
SMQ

	Never	Seldom	Often	Almost Always
School				
When appropriate, my child talks to most peers at school.	0	1	2	3
When appropriate, my child asks his/her teacher questions.	0	1	2	3
Home/Family				
When appropriate, my child talks to family members in unfamiliar places.	0	I	2	3
When appropriate, my child talks to family members that don't live with him/her.	0	1	2	3
In Social Situations (Outside of School)				
When appropriate, my child speaks with other children who he/she does not know.	0	1	2	3
When appropriate, my child speaks to store clerks and/or waiters.	0	I	2	3

From Bergman, R. L., Keller, M., Piacentini, J., & Bergman, A. J. (2008).





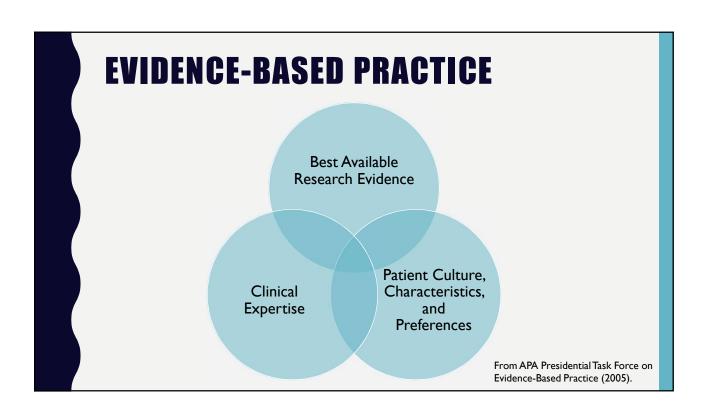


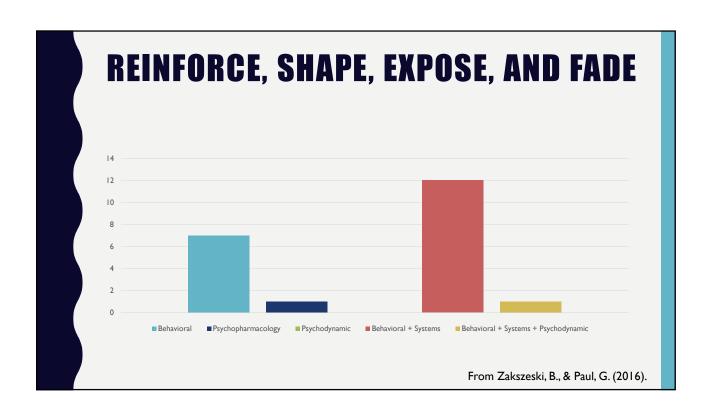
FSSM

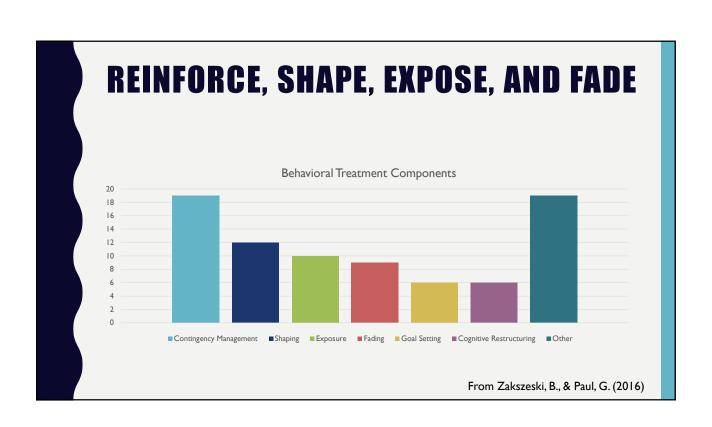
- Diagnostic Scale (DS)
 - 10 questions focusing on core SM characteristics
 - Cut off scores differentiate between SM and Social Anxiety Disorder
- Severity Scale (SS)
 - Assesses speaking patterns in three domains (school, family, social)
- Three Age Adjusted Versions
 - 3-6 years
 - 7-11 years
 - 12-18 years

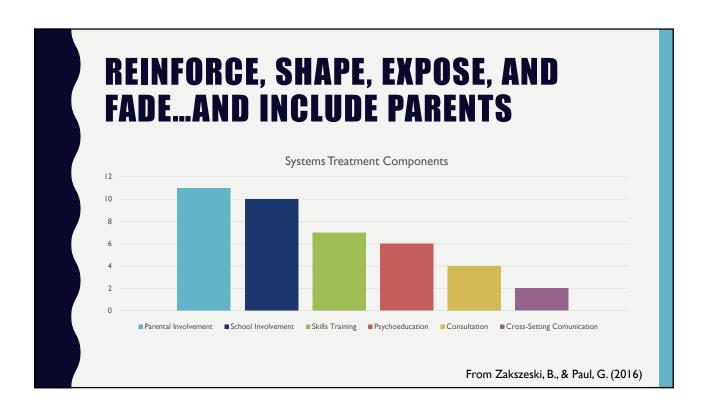
From Gensthaler, A., Dieter, J., Raisig, S., Hartman, B., Ligges, B., Kaess, M., Freitag, C., & Schwenck, C. (2020).











TREATMENT OUTCOME STUDIES

Authors	Date	Treatment				
Randomized Controlled Trials						
Bergman, R. L., Gonzalez, A., Piacentini, J., & Keller, M.	2013	Integrated Behavioral Therapy				
Oerbeck, B., Stein, M., Wentzel-Laursen, T., Langsrud, O., & Kristensen, H.	2014	Defocused Communication and Behavioral Techniques				
Ooi, Y. P., Sung, S.,Fund, D. S. S.	2016	Web-Based CBT (the "Meeky Mouse" program)				
Esposito, M., Gimigliano, F.,Carotenuti, M.	2017	Psychomotricity Treatment				
Cornacchio, D., Furr, J.,Comer, J.	2019	Intensive Group Behavioral Treatment				
	Open Trials					
Klein, E., Armstrong, S., Skira, K., & Gordon, J.	2017	Social Communication Anxiety Treatment (SCAT)				
Catchpole, R., Young, A., Baer, S., & Salih, T.	2019	Parent-Child Interaction Therapy (PCIT)				

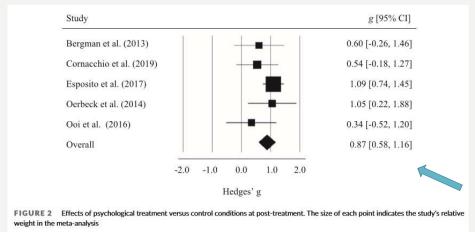
TREATMENT CO	DMPONENTS
--------------	-----------

Number of Hours/ Weeks	Rapport Building	Parent Involvement	Shaping/ Fading	Gradual Exposure	In-Session Community Practice	Rewards/ Contingency Management	School Consultation/ Sessions	Between Session Practice	Anxiety Management Strategies
20/24	X	X	X	X	X	X	X	X	
21/12	X	X	X	X		X	X		
14/14	X		X	X		X		X	X
54/24									
3/9*	X	X	X	X		X		X	
30/1	X	X	X	X	X	X	X		X
16/22	X	X	X	X	X	X	X	X	
	of Hours/ Weeks 20/24 21/12 14/14 54/24 3/9* 30/1	of Hours/ Weeks 20/24 X 21/12 X 14/14 X 54/24 3/9* X 30/1 X	of Hours/ Weeks 20/24 X X X 21/12 X X 14/14 X 54/24 3/9* X X X 30/1 X X	of Hours/ Weeks Building Involvement Fading 20/24 X X X 21/12 X X X 14/14 X X X 54/24 X X X 3/9* X X X 30/1 X X X	of Hours/ Weeks Building Involvement Fading Exposure 20/24 X X X X 21/12 X X X X 14/14 X X X X 54/24 X X X X 3/9* X X X X 30/1 X X X X	of Hours/ Weeks Building Involvement Fading Exposure Community Practice 20/24 X X X X X 21/12 X X X X 14/14 X X X 54/24 X X X 3/9* X X X 30/1 X X X	of Hours/ Weeks Building Hovelent Involvement Fading Exposure Community Practice Contingency Management 20/24 X X X X X 21/12 X X X X 14/14 X X X X 54/24 X X X X 3/9* X X X X 30/1 X X X X	of Hours/ Weeks 20/24 X X X X X X X X X X X 21/12 X X X X X X X X X X 14/14 X X X X X X X X 30/1 X X X X X X X X X X X X X X X X X X X	of Hours/ Weeks 20/24 X X X X X X X X X X X X X X X X X X X

Λ	CIIMMARV	OF TREATMENT	OINTONES
H	JUMMANI	UF INEAIMENI	I UUIGUMES

	SMQ/SSQ	SM Diagnosis	Other Anxiety Symptoms	Treatment Response
Bergman, et al. (2013)	SMQ and SSQ : SS pre/post gains; maintained at FU	ADIS-IV-P: 67% SM diagnosis free	SASC-P/T: SS improvement in social anxiety per parents, but not teachers	CGI-I: 75% (post); 88.9% (FU)
Oerbeck, et al. (2014)	SMQ and SSQ: SS pre/post gains; maintained at FU	ADIS-IV-P: 50% SM diagnosis free (1 yr FU); 71% diagnosis free (5 yr FU)	KSADS: 45.8% with a comorbid anxiety d/o (I yr FU)	N/A
Ooi, et al. (2016)	SMQ: no effects	N/A	ACAS-C: no effects	CGI-I and CGI-S:SS improvement
Esposito, et al. (2017)	SMQ: SS pre/post gains	N/A	CBCL: SS improvement on Anxious/Depressed, Social Problems, Withdrawn, Internalizing, and Total scales	N/A
Klein, et al. (2017)	SMQ: SS pre/post gains	N/A	CBCL : SS improvement on Anxiety and Withdrawn scales	N/A
Cornacchio, et al. (2019)	SMQ: SS pre/post gains Social; no effects Home	ADIS-IV-P: 7% (post); 45.8% (FU) SM diagnosis free	ADIS-IV-P:SS reduction in IE rated social anxiety severity CBCL: no effects	CGI-I: 50% (post); 62.5% (FU)
Catchpole, et al. (2019)	SMQ: SS pre/post gains; maintained a FU SSQ: SS pre/post gains	N/A	N/A	Treatment Response: 18% non; 27.6% moderate; 58.6% robust
Schedule			-IV, Parent Version; SASC-P/T — Social Anxiety Scale for Children cale — Caretaker; CBCL — Child Behavior Checklist; CGI-I/S — Clir	-Parent/Teacher; KSADS —

A META-ANALYSIS OF RCTS

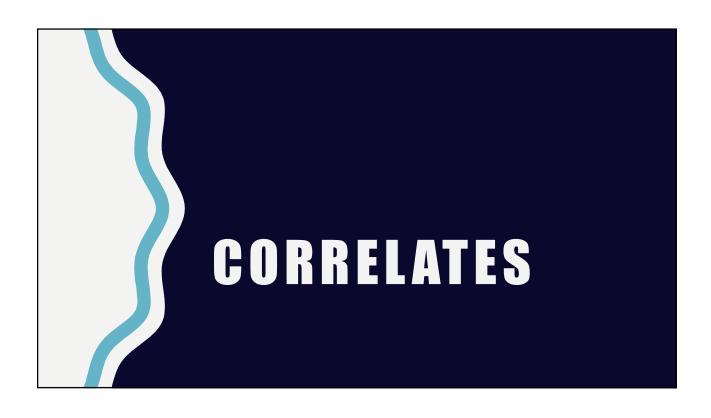


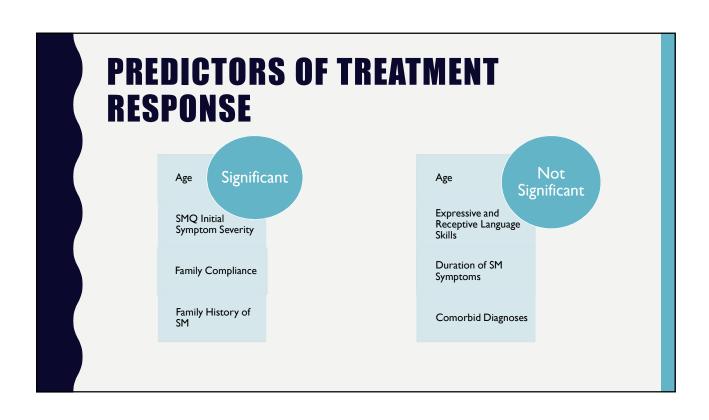
But what is Hedges' g?
A measure of effect size; tells the degree to which the experimental groups

differed; demonstrates practical significance of findings

From Steains, S., Malouff, J., & Schutte, N. (2021).

EMPIRICALLY SUPPORTED TREATMENTS FOR SM **NONE!** Criteria for Empirically Validated Treatments: Well-Established Treatments I. At least two good group design studies, conducted by different investigators, demonstrating efficacy in or more of the following ways: A. Superior to pill or psychological placebo or to another treatment. B. Equivalent to an already established treatment in studies with adequate statistical power (about 30 group; cf. Kazdin & Bass, 1989). OR II. A large series of single case design studies demonstrating efficacy. These studies must have: A. Used good experimental designs and Criteria for Empirically Validated Treatments: Probably Efficacious Treatments Used good experimental designs and B. Compared the intervention to another treatment as in I.A. Two studies showing the treatment is more effective than a waiting-list control group FURTHER CRITERIA FOR BOTH I AND II: II. Two studies otherwise meeting the well-established treatment criteria I, III, and IV, but both are conducted by the same investigator. Or one good study demonstrating effectiveness by these same criteria. III. Studies must be conducted with treatment manuals. IV. Characteristics of the client samples must be clearly specified III. At least two good studies demonstrating effectiveness but flawed by heterogeneity of the client samples. OR IV. A small series of single case design studies otherwise meeting the well-established treatment criteria II, III, and IV.





ANXIETY PRODUCING PEOPLE...

Category	Description	Examples	Participants who reported this charac- teristic*
Lack of distance	People who do not keep the distance, who get too close to the child physically; too directly address the child or demands and expectations that put pressure on the child; show little sensitivity to the child's need for distance	"Demanding people" "People who do not keep enough distance" "People who put her under pressure"	45%
Authority characteristics	Behavior and characteristics of a person usually perceived as authoritarian or aggres- sive or group belonging to authorities	"Strict persons" "Loud voice" "Dominant persons" "Medical doctors"	36%
Low familiarity	Strangers whom the child does not know and who are difficult for him to assess and unpredictable	"Strangers" "Not seen for a long time" "When it hardly knows the person"	33%
External characteristics	Externally visible or audible per se neutral characteristics of a person	"Old age" "Male" "Tall"	25%
Little child-focused	People who are not very focused on the needs of the child and show little sensitiv- ity in the sense of too much distance or clumsy contact with the child, who do not try to get access to the child or who are insensitive to contact	"Closed people" "Unrelaxed and stiff" "Unfriendly"	22%

From Schwenck, C., Gentshaler, A., Vogel, F., Pfefferman, A., Laerum, S., & Stahl, J. (2021).

...PLACES...

Category	Description	Examples	Participants who reported this charac- teristic*
Unknown places	Unknown places that the child does not yet know or only knows a little, which are associated with uncertainty with regard to proce- dures and little behavioral safety	"Places that are new for my child" "If this is the first time anywhere" "Unknown place"	56%
Crowds	Places with a lot of people	"When there are too many people in one place" "Many people in little space" "Many people"	44%
Places with negative expe- rience	Places where the child has already had negative experience or expects to meet or talk to certain people	"Medical practice" "Places where she is expected to speak" "Negative experience at this or similar place"	21%
High volume	Places with high volume or much noise	"Volume dominates" "Noisy environment" "Loud noises"	13%

From Schwenck, C., Gentshaler, A., Vogel, F., Pfefferman, A., Laerum, S., & Stahl, J. (2021).

...AND THINGS...

Category	Description	Examples	Participants who reported this charac- teristic*
New activities	Activities that the child does not yet know, where he/she does not know what to expect and where the consequences are unforesee- able	"Everything that is new" "What he does not know and can- not judge" "The unknown activity"	47%
Motor activities	Motor activities to be learned, activities that require courage or could be potentially dangerous	"Climb up somewhere" "Movements/activities considered to be dangerous" "Swimming, skating and other activities where he could lose control"	27%
Failure	Activities that the child cannot do or is afraid of failing and has not yet mastered	"When she has to do something and is not sure if she can or can't do it" "Has previously had negative experiences with it" "When she feels overwhelmed"	25%
Focus of attention	Activities where the child could be the focus of attention	"When many people are watching" "When she is observed by strangers" "If she attracts the attention of others in the process"	22%
Activities with speech demands	Activities associated with talking to other people	"Something to talk about" "Speech required" "If you want her to speak in front of others"	19%

From Schwenck, C., Gentshaler, A., Vogel, F., Pfefferman, A., Laerum, S., & Stahl, J. (2021).

REFERENCES

APA Presidential Task Force on Evidence-Based Practice (2005). Evidence-based practice in psychology. American Psychologist, 61, 271–285.

Bergman, R. L., Gonzalez, A., Piacentini, J., & Keller, M. (2013). Integrated Behavior Therapy for Selective Mutism: A randomized controlled pilot study. Behavior Therapy and Research, 51, 680-689.

Bergman, R. L., Keller, M., Piacentini, J., & Bergman, A. J. (2008). The development and psychometric properties of the Selective Mutism Questionnaire. *Journal of Clinical Child and Adolescent Psychology*, 37, 456-464.

Catchpole, R., Young, A., Baer, S., & Salih, T. (2019). Examining a novel, parent-child interaction therapy informed behavioral treatment of selective mutism. *Journal of Anxiety Disorders*, 66, 102-112.

Cornacchio, D., Furr, J. M., Sanchez, A. L., Hong, N., Feinberg, L. K., Tenenbaum, R., Del Busto, C., Bry, L. J., Poznanski, B., Miguel, E., Ollendick, T. H., Kurtz, S. M. S., & Comer, J. S. (2019). Intensive group behavioral treatment (IGBT) for children with selective mutism: A preliminary randomized clinical trial. *Journal of Consulting and Clinical Psychology*, 87, 720–733

Driessen, J., Blom, J., Muris, P., Blashfield, R., Molendijk, M. (2020). Anxiety in children with selective mutism: A meta-analysis. *Child Psychiatry and Human Development*, 51, 330-341.

Esposito, M., Gimigliano, F., Barillari, M. R., Precenzano, F., Ruberto, M., Sepe, J., ... Carotenuto, M. (2017). Pediatric selective mutism therapy: A randomized controlled trial. European Journal of Physical and Rehabilitation Medicine, 643-653.

Gensthaler, A., Dieter, J., Raisig, S., Hartman, B., Ligges, B., Kaess, M., Freitag, C., & Schwenck, C. (2020). Evaluation of a novel parent-rated scale for selective mutism. Assessment, 27, 1007-1015.

Klein, E., Armstrong, A., Skira, K., Gordon, J. (2017). Social Communication Anxiety Treatment (S-CAT) for children and families with selective mutism: A pilot study. Clinical Child Psychology and Psychiatry, 21, 90-108.

REFERENCES, CONTINUED

Oerbeck, B., Johansen, J., Lundahl, K., & Kristensen, H. (2012). Selective mutism: A home-and kindergarten-based intervention for children 3–5 years: A pilot study. Clinical Child Psychology and Psychiatry, 17(3), 370–383.

Oerbeck, B., Overgaard, K., Bergman, R., Pripp, A., & Kristensen, H. (2020). The Selective Mutism Questionnaire: Data from typically developing children and children with selective mutism. Clinical Child Psychology and Psychiatry, 25, 754-765.

Oerbeck, B., Overgaard, K.R., Stein, M.B., Pripp, A.H., & Kristensen, H. (2018). Treatment of selective mutism: A 5-year follow-up study. European Child & Adolescent Psychiatry, 27(8), 997–1009.

Oerbeck, B., Stein, M. B., Wentzel-Larsen, T., Langsrud, Ø., & Kristensen, H. (2014). A randomized controlled trial of a home and school-based intervention for selective mutism—Defocused communication and behavioural techniques. *Child and Adolescent Mental Health*, 19, 192–198.

Ooi, Y. P., Sung, S., Raja, M., Kwan, C., Koh, J. & Fund, D. S. S. (2016). We, 51, 680-689.b-based CBT for the Treatment of SM: Results from a Pilot RCT in Singapore. Journal of Speech Pathology and Therapy, 1, 1-7

Schwenck, C., Gentshaler, A., Vogel, F., Pfefferman, A., Laerum, S., & Stahl, J. (2021). Characteristics of person, place, and activity that trigger failure to speak in children with selective mutism. European Child & Adolescent Psychiatry

Steains, S., Malouff, J., & Schutte, N. (2021). Efficacy of psychological interventions for SM in children: A meta-analysis of randomized controlled trials. Child: Care, Health, and Development, 1-11.

Vogel, F., Gensthaler, A., Stahl, J., & Schwenck, C. (2019). Fears and fear-related cognitions in children with selective mutism. European Child and Adoleset Psychiatry, 28, 1169-1181.

Zakszeski, B., & Paul, G. (2017). Reinforce, shape, expose, and fade: A review of treatments for selective mutism (2005–2015). School Mental Health, 9,1–15

