GUIDELINE TOPIC: PHARMACOLOGICAL MANAGEMENT OF ASTHMA QUESTION: EVIDENCE TABLE 4.24B: OTHER PREVENTOR THERAPIES - CHROMONES IN CHILDREN AGED <5

BIBLIOGRAPHIC CITATION		EVIDENCE LEVEL	NUMBER OF PATIENTS	CHARACTERISTICS	INTERVENTION			OUTCOME MEASURE	EFFECT SIZE	SOURCE OF FUNDING	ADDITIONAL COMMENTS
Glass, J., Archer, L. N. J., Adams, W. and Simpson, H Nebulised cromoglycate, theophylline, and placebo in preschool asthmatic children. Archives of Disease in Childhood 1981:56;648-651.	RCT	+		girls. 1 yr 9 months - 4 yrs 5 months. 15 atopic. Viral induced in 15, exercise 11, 7 skin test +ve. 39 hospital admissions.	20mg qid (vs theophylline 6.7mg qid) vs placebo. Three 8 week treatment	DSCG vs theophylline vs placebo	24 weeks.	Asthma score (scale 0-3). PEFR unreliable and excluded. Bronchodilator use (neb), short term steroids, hospital admissions.	DSCG, Placebo, p (Friedman statistics) Sleep 2.10, 1.92, 2.82. Cough 3.44, 3.96, 0.25. Wheeze 2.35, 2.21, 0.96. Activity 1.45, 2.10, 0.68. Bronchodilator use/wk 1.71, 1.38, 0.25.	Supported by Fisons and Warner- Lambert company for drugs, nebs, stats advice.	This is a negative study. If anything problems with concealment would have had the opposite effect, so probably that DSCG had no real effect in this group.
Hiller, E. J. and Milner, A. D Betamethasone 17 valerate aerosol and disodium chromoglycate in severe childhood asthma. British Journal of Diseases of the Chest. 1975:69;103-6.	RCT		11 children. 9 boys 2 girls.	months (range 9y9m - 13y10m). Recurrent wheeze for 6.5 yrs, 7 previous systemic	17 Valerate MDI 200mcg qid, or DSCG 20mg cap qid or placebo.	Beta vs dscg vs placebo. Month of each possible. Only last 2 weeks of each period studied.	4 months	Asthma score (ref given). PEFR. Bronchodilator use. FEV0.75 and FVC.	DSCG, placebo, p Symptom score: 2.91, 3.93, <0.005 PEFRam: 50, 52, ns . PEFRpm 58, 60, <0.05 PEFR 2 week: 65, 53, <0.05.	Manufacturers prepared placebos.	The study demonstrates a small but significant benefit to DSCG over placebo. The clinical significance of this is difficult to assess.

								FEV0.75: 65, 58, <0.05 FVC 84, 82, ns.		
Hiller, E. J., Milner, A. D. and Lenney, W Nebulized sodium cromoglycate in young asthmatic children. Double- blind trial. Archives of Disease in Childhood. 1977:52;875-6.	++	17 - cross over		DSCG neb 20mg qid or placebo.	DSCG vs placebo	week run in period of placebo,	opinion.	placebo, p.	Not stated. Placebos supplied by ?	The scoring system is not validated. It is not clear how important the difference found were. No effect on wheeze, just cough and effect appears v. small despite qid DSCG over 2 months. Weak, if any real effect from DSCG over placebo.
Tasche, M. J., van der Wouden, J. C., Uijen, J. H., Ponsioen, B. P., Bernsen, R. M., van Suijlekom- Smit, L. W. and de Jongste, J. C Randomised placebo-controlled trial of inhaled sodium cromoglycate in 1-4-year-old children with moderate asthma.[see comment][erratum appears in Lancet 1998 Jan 31;351(9099):376]. Lancet. 1997:350;1060-4.	++	218 completed in 167 109 DSCG, 109 Placebo	Age 1-4 yrs Moderate asthma. If inhaled or oral steroids classified as severe asthma Questionnaire used to confirm asthma Community based (151 GPs in Rotterdam)	DSCG 10mg MDI + spacer + mask tds vs placebo	DSCG vs Placebo Study medication for 5 months.		score. Symptom free days in months 2-5 of treatment.	DSCG vs placebo (95% CI) Symptom free days: 65.7% vs 64.3% (-8.46 to 5.70) Baseline adjusted sym free day (-4.6 to 7.7) Kids > 80% compliance (-8.21 to 6.41) GP visits 61% vs 85% (p=0.14)	Netherlands Asthma Foundation	Yes No benefit in this age group.