Amber with Guidance (Amber-G) = To be recommended or initiated by a specialist* with follow up prescribing and monitoring by primary care clinicians.

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<u>DESMOSPRAY</u> (Desmopressin Nasal Spray) for diabetes insipidus

The details of side-effects, cautions, contraindications and interactions are not a complete list and the current BNF (https://www.medicinescomplete.com/#/content/bnf/_373250532?hspl=desmopressin) and the SPC (Desmopressin Spray 10 micrograms/dose Nasal Spray solution - Summary of Product Characteristics (SmPC) - (emc) (medicines.org.uk) remain authoritative.

Background Information	A specialist should initiate Desmospray with written information to primary care to communicate the initiation, stating the indication and dosage.		
BNF therapeutic class	Pituitary and Hypothalamic Hormones and Analogues > Vasopressin and Analogues		
Indication	Desmospray is licensed for the treatment of Diabetes Insipidus (it is also licenced for other indications though these are not covered in this shared care guideline).		
Dosage and administration	Dosage is individual but clinical experience has shown that the average maintenance dose in adults and children is one or two sprays (10 to 20 micrograms) once or twice daily. (10-40 micrograms daily in 1-2 divided doses) If a dose of two sprays is required, this should be as one spray into each nostril.		
Cautions and Contraindications	Cautions: DESMOSPRAY should only be used in patients where or administered formulations are not suitable.		
	 It is recommended to: Start at the lowest dose To ensure compliance with fluid restrictions instructions To increase dosage progressively, with caution Caution should be taken in patients who have reduced renal function and/or cardiovascular disease or cystic fibrosis. In the event of signs and symptoms of water retention and/or hyponatremia (headache, nausea/vomiting, weight gain and in severe cases convulsions) treatment should be interrupted until the patient has fully recovered. When restarting treatment, strict fluid restriction should be enforced. Elderly patients and patients with low serum sodium levels may have an increased risk of hyponatremia. Contra-indications: Syndrome of inappropriate ADS secretion (SIADH) Known hyponatremia A history of known or suspected cardiac insufficiency and other conditions requiring treatment with diuretics Moderate and severe renal insufficiency (creatine clearance below 50ml.min) When prescribing DESMOSPRAY, the diagnosis of habitual or psychogenic polydipsia (resulting in a urine production exceeding 40mg/kg/24 hours) and alcohol abuse should be excluded. 		

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Pregnancy and breast feeding	 Caution should be exercised when prescribing to pregnant women – blood pressure monitoring is recommended due to the increased risk or pre-eclampsia. There is a small oxytocic effect in the third trimester. Breast feeding – the amount of desmopressin that may be transferred to the child are considerably less than the amount required to influence diuresis. 	
Adverse Drug Reactions	 Side-effects include headache, stomach pain, nausea, nasal congestion, rhinitis and epistaxis. Isolated cases of allergic skin reactions and more severe general allergic reactions have been reported. Very rare cases of emotional disorders including aggression in children have been reported. Treatment without concomitant reduction of fluid intake may lead to water retention/hyponatremia with or without accompanying warning signs and symptoms (headache, nausea/vomiting, weight gain, decreased serum sodium and in severe cases, convulsions). Any serious adverse reactions should be reported to the MHRA via the Yellow Card scheme: www.mhra.gov.uk/yellowcard 	
Monitoring	Elderly patients are at an increased risk of hyponatremia and renal impairment — manufacturer advises measure baseline serum sodium concentration, then monitor regularly during treatment; discontinue treatment or reduce the dose if levels fall below the normal range. Review treatment if no therapeutic benefit after 3 months.	
Interactions	Substances which are known to induce SIADH e.g. Tricyclic antidepressants, selective serotonin re-uptake inhibitors, chlorpromazine and carbamazepine may cause an additive antidiuretic effect leading to an increased risk of water retention and/or hyponatremia. NSAIDs may induce water retention and/or hyponatremia.	

Contact names and details

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References

- British National Formulary (2021) Desmopressin.
 https://www.medicinescomplete.com/#/content/bnf/ 373250532?hspl=desmopressin
 December 2021.
- Summary of Product Characteristics (2019) <u>Desmopressin Spray 10 micrograms/dose Nasal Spray solution Summary of Product Characteristics (SmPC) (emc) (medicines.org.uk)</u> Accessed 13th December 2021.

https://www.england.nhs.uk/wp-content/uploads/2018/03/responsibility-prescribing-between-primary-secondary-care-v2.pdf

Development Process

DESMOSPRAY Amber-G Guideline

This guidance has been produced by Lauren Clarke – (Senior Pharmacist – Interface) following an AMBER-G classification status of Desmopressin by the Barnsley Area Prescribing Committee. This guideline was ratified by the Area Prescribing Committee on 9th February 2022.

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