

Multidisciplinary Asthma Service

Key Elements of Success Vicky Worrall Respiratory Nurse Specialist





Key elements of success for MDAS clinic

- Clinic set up
- Team roles/responsibilities
- Empowerment
- Data-driven, evidence-based, person-centered care
- Annual review
- Joint allergy clinics
- Transition model

TERPEC SCORE

'Going the extra mile'





MDAS Team

Consultants-Prof Ian Sinha & Dr Chris Grime

Respiratory Nurse Specialists- Vicky Worrall & Lynsey Brown

Respiratory Physiotherapist- Claire Hepworth

Respiratory Pharmacist – Andrew Lilley

Psychologist- Lucy Gait

MDAS Pathway coordinator- Laura Marsh























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MDAS clinic

Clinic held on Monday afternoons:

- Week 1 MDT meeting, followed by Injection clinic
- Week 2 3 NEW & 7 FU
- Week 3 no clinic, time for nurses to do home/school visits, physio to do additional assessments
- Week 4 3 NEW & 7FU





MDAS Team Roles



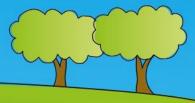
Ian (Consultant)

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- Asthma lead.
- National representation.
- Annual reviews.
- Chris (Consultant)
 - Coordinate MDT meeting.
 - Prescribe for injection clinic.
 - Blue-tech forms.
 - Organise MDAS admissions.
- New consultant
 - Links with general paediatrics.
 - Primary care initiatives.
 - Feed into Beyond project.

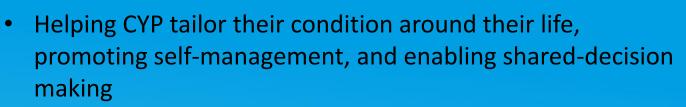
- Vicky (Nurse)
 - 6-Monthly patient audit.
 - Lead for school visits.
 - Lead for home visits.
 - Lead for network nursing.
 - Transition link nurse.
 - Lynsey (Nurse)
 - 3-Monthly injection patient audit.
 - Lead for injection clinic.
 - Allergy link nurse.
 - Research link nurse.
 - Endocrine link nurse.
- Lucy (psychologist)
 - Links with similar roles nationally

- Claire (Physio)
 - Lead of dysfunctional breathing & fitness.
 - Fitness and breathing assessments outside clinic.
- Andrew (Pharmacist)
 - Pharmacy advice & support
 - Adhoc clinic support
- Laura (PCO)
 - Admin support links with network









Alder Hey Children's

- Data-driven, evidenced-based, person-centered care
- Respecting the cognitive development of adolescents
- Poverty-proofing our services

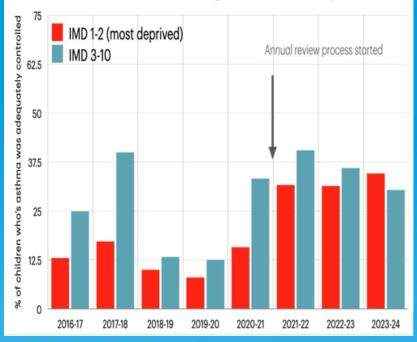


Data-driven, evidence-based, person-centered care

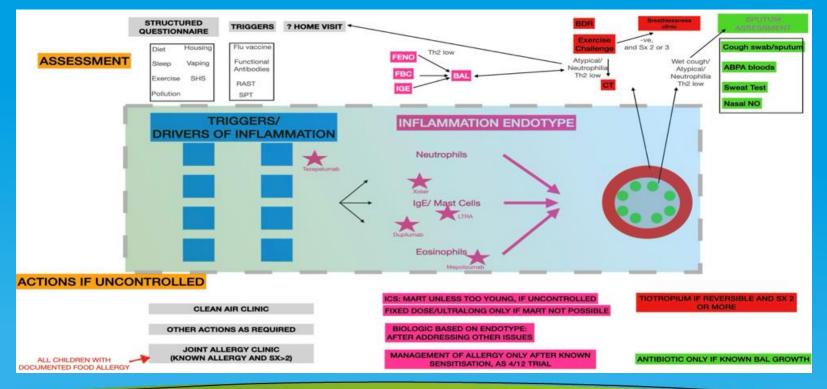
MDAS@alderhey.nhs.uk



ASTHMA CARE IS: 33% INHALED STEROIDS 33% SELF-ESTEEM 33% HEALTHY LIVING 1% EVERYTHING ELSE % of children achieving asthma control each year



Alder Hey Multidisciplinary Asthma Service Uncontrolled Asthma Decision Aid





Alder Hey Multidisciplinary Asthma Service - Sleep

Start with history

- Daytime routine
- Bedtime routine
- Golden hour before bed- sleep hygiene
- Ability to fall asleep
- Frequency of waking
- Breathing during sleep- snoring, pausing
- Ability and quality of waking
- Daytime behaviour





Alder Hey Children's



Alder Hey Multidisciplinary Asthma Service Sleep Hygiene



Sleep hygiene

- Warm shower or bath
- Calming environment
- Relaxing activity for 40 minutes before getting into bed
- Consider preferences for room light and temperature
 - Cool, dim environments best for sleep
- NO SMART PHONES, TABLETS, COMPUTERS OR TELEVISION FOR 40 MINUTES BEFORE BED.





Alder Hey Multidisciplinary Asthma Service Physio

Assessment

- Breathing pattern assessment (look at if the person if breathing through nose or mouth, upper or lower chest, noisy of quiet, yawning/sighing or not)
- Assessment on activity levels
- Fitness test and holsitic healthy living (when fully staffed with therapy assistant)

Treatment

- Discussion around physical activity and offer 1:1 clinic after for exercise assessment/treatment sessions/breath control with exercise
- Treatments for dysfunctional breathing including breathing retraining exercise, nasal breathing/congestion exercises, offer 1:1 follow up clinic sessions and/or after school (small group sessions)





A statistics



- Clinics
- Home visits/assessments
- School visits/training/action plans/liaison
- Transition
- Liaison with primary care/local/network teams
- Advice/support for patients/families via MDAS email



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MDAS clinic - Annual Review Process



- March every year- every patient currently on MDAS database
- Consultant prep in advance using decision aid
- Database updated-documents available for team
- Attend Anywhere- whole team approach
- AR Clinics coordinated into Liverpool patients and Non-Liverpool Patients
- AR clinic letter proforma to CYP/family/GP/local team
- AR clinic letter used to provide essential information to adult team as part of referral/transition process





THEPHET RECEIVER

Multidisciplinary Asthma Service

- 4 joint clinics annually with Alder Hey Allergy Consultant
- 4 allergy patients per clinic
- Consultation includes:
 - Assessment
 - SPT
 - Treatment
 - Action plans
 - Advice/support



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MDAS Injection clinic



- 100 -120 current MDAS patients
- 10-15% on injectable treatment (variable with new referrals/transition)
- Recently transitioned 5 patients on injectable treatment:
 - 3 Dupilumab
 - 1 Mepolizumab
 - 1 Omalizumab
- Remaining 10 patients:
 - 5 Dupilumab
 - 5 Mepolizumab
- Majority on Homecare





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MDAS Back to school packs Alder Hey Children's NHS Foundation Trust

- Early August every MDAS patient receives a personalised back to school pack, in the post, containing:
 - Personalised asthma action plan for home.
 - Personalised asthma action plan for school.
 - Inhaler device instructions for all their devices.
 - Asthma advice sheet for going back to school.
 - Physio/Exercise advice sheet.
 - Sleep advice sheet.
 - Wellbeing advice sheet.
 - Relevant additional info- local services







Reducing asthma exacerbations after the start of the school year: empowering children and

families

Brown L., Worrall V., Grime C., Hepworth C., Harper H., Holden K., Lawrence P., Gait L., and Sinha I.

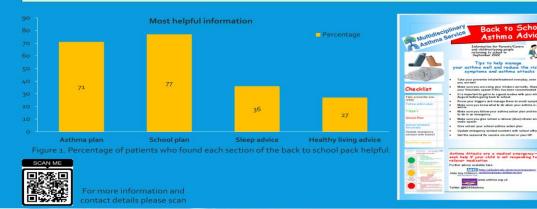
Background: Week 38, corresponding to the return to school in September, can see an increase in asthma attacks and hospital admissions. New innovative and inclusive ways of empowering Children and Young People (CYP) and families to manage asthma effectively in this period are needed to try to reduce this risk.

Aims: We created and provided CYP attending our Multidisciplinary Asthma Service (MDAS) clinic with back to school packs, aiming to empower CYP and their families with tools for improving asthma management to prevent/reduce asthma attacks.

Methods: The specialist MDT developed additional advice and action plans to provide to CYP, families and schools. This combined to form a back to school pack sent to our 120 patients. This included personalised asthma action and school plans, age and treatmentspecific inhaler device instructions, and advice on wellbeing/exercise/sleep to empower children and families to enable them to feel prepared and support schools to manage asthma effectively. A questionnaire was sent out to parents via email 3 months after the return to school. Parents were also asked to complete the questionnaire via a QR code when in clinic. **Results**: Our response rate from the questionnaires was 15%. A large proportion of parents (82%) found the back to school pack to be helpful. Figure 1 shows that, in particular, the asthma plans (71%) and school plans (77%) were most useful. Parents felt the packs prevented additional visits to school from asthma nurses and helped them manage their child's asthma after going back to school. The preferred way to receive the packs was via email.

Conclusion: We have shown that in CYP attending our MDAS clinic, back to school packs were useful and families felt prepared and empowered to reduce the risk of asthma attacks. Future analysis could look at number of asthma attacks over the school year. Alternative approaches to data collection may need to be considered in the future to improve response rate.

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Model of Care for MDAS Transition

Year 10

• Joint clinic

• Alder Hey

• Twice yearly

Year 11

• Joint clinic

• Alder Hey

• Twice yearly

Year 12

- Meet & Greet evening
- Joint clinic
- RLUH





NHS

The Royal Liverpool and Broadgreen University Hospitals



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'Going the extra mile' MDAS Fruit Bowl

- Funding secured via Alder Hey Children's charity 'Bright Ideas' grant.
- MDAS Fruit bowl initiated again.
- Local greengrocer identified and weekly deliveries of a variety of fresh fruit to the hospital arranged.
- CYP and families get to enjoy choosing fruit from the fruit bowl to eat in clinic and/or take home.
- Open conversations in clinic about healthy eating/heathy living and overall benefits as CYP and families feel 'cared for'.
 - Gather feedback from CYP and families







