



CTYA Workshop - SACT Update

11th December 2013

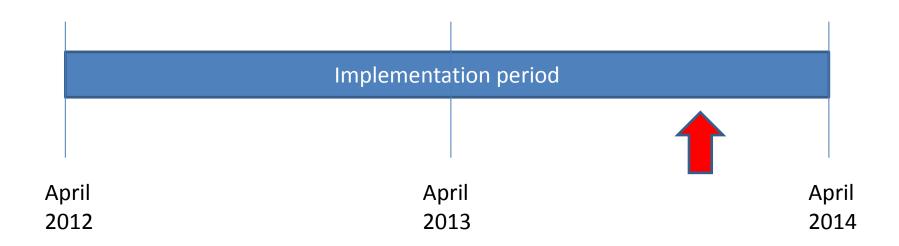


SACT

- Systemic Anti-Cancer Therapy Information Standard
- NHS Information Standard Board approval
- Implementation from April 2012- April 2014
- Covers all drug treatment for cancer in all settings

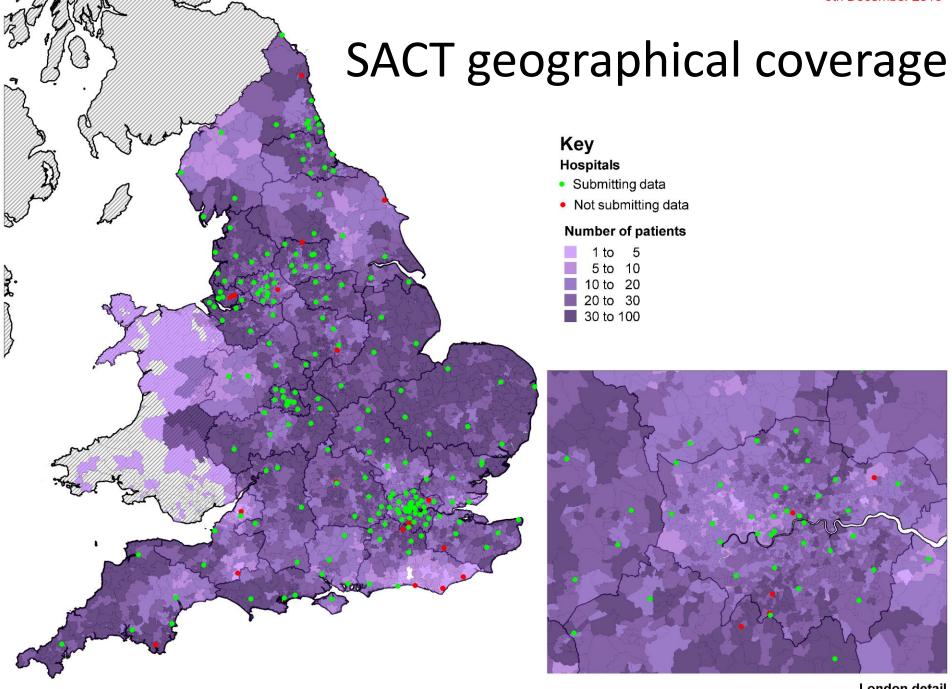


SACT Timetable





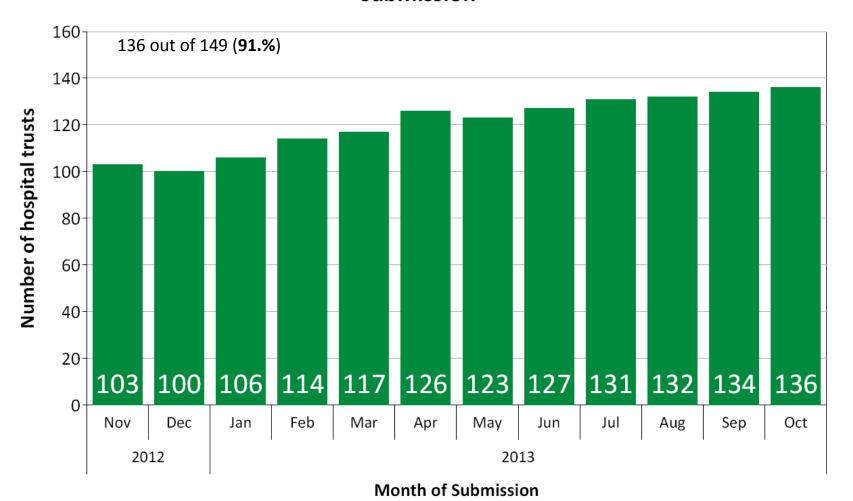




London detail

Increase in contributing trusts

Number of hospital trusts submitting chemotherapy data, by month of submission



SACT field structure

- Demographics and provider
- Clinical status
- Programme and regimen
- Cycle
- Drug details
- Outcome





SACT Data Completeness report (November 2012 to October 2013)

						-	
Number of patients	% NHS Number	% Date of Birth	% Current gender	% Ethnicity	% Patient postcode		
125,243	100%	100%	97%	93%	99%		
Number of tumour records	% GP Practice Code	% GMC Code	% Consultant Specialty	% Primary diagnosis	% Morphology	% Stage of disease at start of programme	
131,885	80%	86%	87%	99%	43%	22%	
Number of regimens	% Programme number	% Regimen number	% Treatment intent	% Regimen name	% Height at start of regimen	% Weight at start of regimen	% Performance Status at start of regimen
204,157	53%	55%	71%	99%	46%	48%	29%
	% Comorbidity adjustment	% Date of decision to treat	% Start date of regimen	% Clinical trial	% Chemo radiation	% Number of cycles planned	
	22%	81%	99%	65%	47%	46%	
Number of cycles	% Cycle number	% Start date of cycle	% Weight at start of cycle	% Performance Status at start of cycle	% OPCS procurement code		% Cycles with Drug records
538,405	99%	92%	42%	26%	47%		74%
Number of drug records	% Drug name	% Actual dose per administration	% Administration route	% Administration date	% OPCS Delivery code	% Organisation code of drug provider	
1,296,767	99%	92%	86%	99%	53%	94%	
		<u> </u>				<u> </u>	1
Number of outcome records	% Date of Final Treatment	% Regimen modification (dose reduction)	% Regimen modification (time delay)	% Regimen modification (stopped early)	% Regimen outcome summary	% Date of death	
107,703	27%	34%	11%	22%	5%	4%	

53% of regimens

SACT Data Completeness report (November 2012 to October 2013)

Number of patients Number of patients % NHS Number % Date of Birth % Current gender % Ethnicity % Patient postcode	
patients % NHS Number % Date of Birth % Current gender % Ethnicity % Patient postcode 939 100% 96% 91% 100% Number of tumour records % GP Practice Code % GMC Code % Consultant Specialty % Primary diagnosis % Morphology % Stage of disease at start of programme	
939 100% 100% 96% 91% 100% Number of tumour records % GP Practice Code % GMC Code % Consultant Specialty % Primary diagnosis % Morphology % Stage of disease at start of programme	
tumour records % GP Practice Code % GMC Code % Consultant Specialty % Primary diagnosis % Morphology start of programme	
971 95% 94% 95% 100% 77% 10%	
Number of regimens **Programme number ** Regimen number ** Regimen number ** Treatment intent ** Regimen name	
2,119 33% 32% 42% 100% 4% 29% 0%	
% Comorbidity % Date of decision to adjustment % Start date of regimen % Clinical trial % Chemo radiation % Number of cycles planned	
1% 72% 100% 79% 39% 33%	
Number of cycles % Cycle number % Start date of cycle % Weight at start of cycle start of cycle code % OPCS procurement start of cycle code code start of cycle records	rug
4,487 100% 74% 40% 0% 73% 94%	
Number of drug records **Drug name **Actual dose per administration **Administration route **Administration date **Administration date **OPCS Delivery code drug provider **OPCS Delivery code drug provider	
15,489 100% 85% 60% 100% 64% 100%	
Number of outcome records **Number of Treatment **Regimen modification (dose reduction) **Regimen modification (stopped early) **Regimen modification summary **Date of death** **Date of death**	
961 42% 14% 1% 13% 1% 2%	

Data collection and analysis

- The Chemotherapy Intelligence Unit (CIU), is based at Oxford within the Cancer Registry
- Data are sent from trusts on a monthly basis and series of validation processes are applied
- For adults, a suite of routine analyses and reports are issued 3 and 6-monthly and trusts receive reports of their individual activity to compare against the aggregate picture





Paediatric analysis





Issues with paediatrics

- Centres have been slow to come onboard, mainly because of e-prescribing issues
- Separate OPCS commissioning codes radically updated in April 2013
- Requires an approach to analysis based on disease rather than anatomical site
- Much activity already well documented in trials
- Overlaps with adult activity

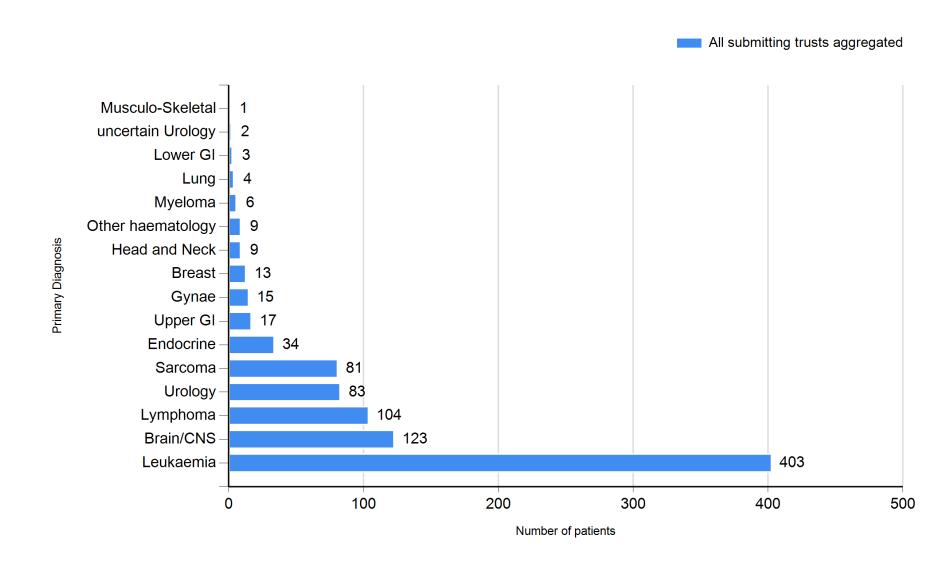
Paediatrics

- Martin English has been educating and advising the CIU team
- Initial analysis to focus on ALL as most common malignancy
- Initial look at patterns of drug usage
- Paediatric treatment fits with programmes and regimens but needs work on matching and grouping
- Small numbers limits meaningful analysis

Number of Patients by Diagnostic Group

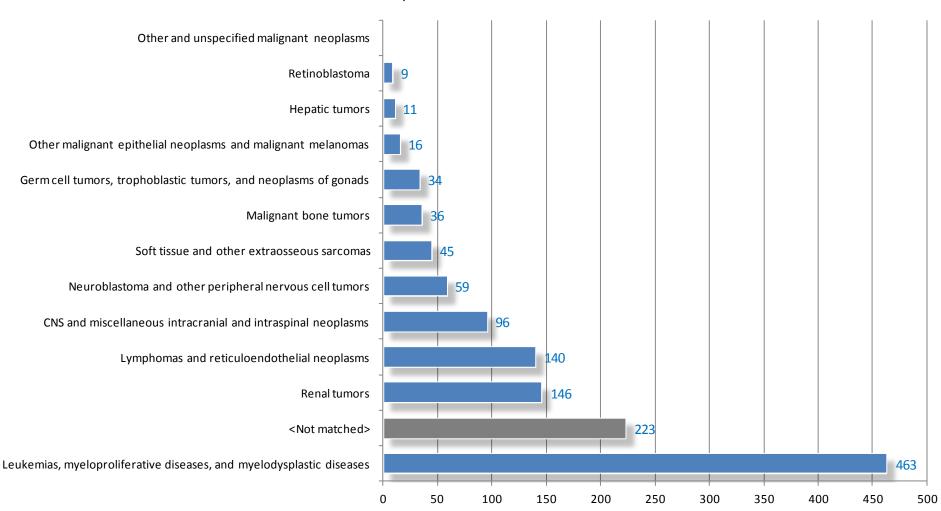
All submitting trusts aggregated

Data received for October 2012 - September 2013. Patients aged under 16



Paediatric chemotherapy Diagnostic groupings using primary diagnosis and morphology

Total patients: around 1,200 aged 16 and under **Source:** SACT, accessed 10th December 2013



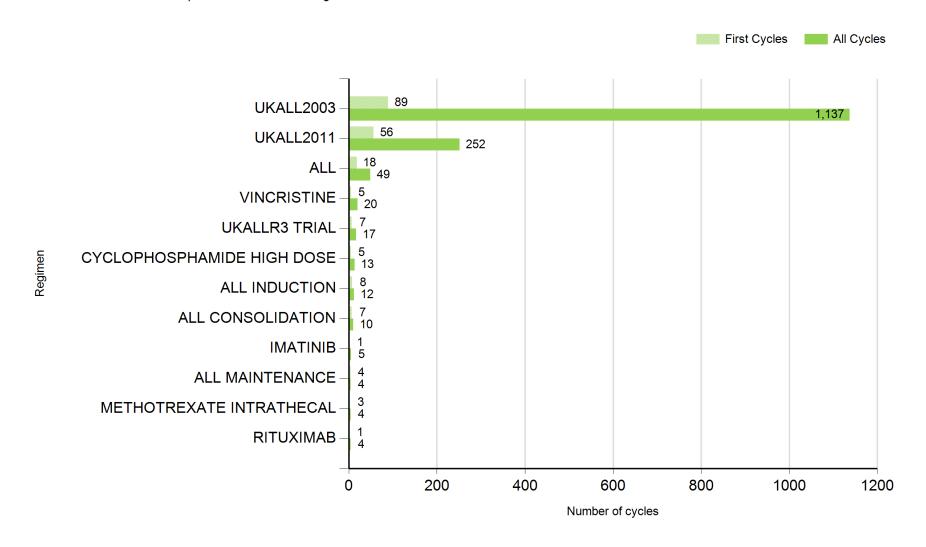
Top Regimens by Diagnostic Group

Leukaemia (ALL)

ICD10: C910, C915, C918

All submitting trusts aggregated

Data received for October 2012 - September 2013. Patients aged under 16



Principal treatment centres contributing

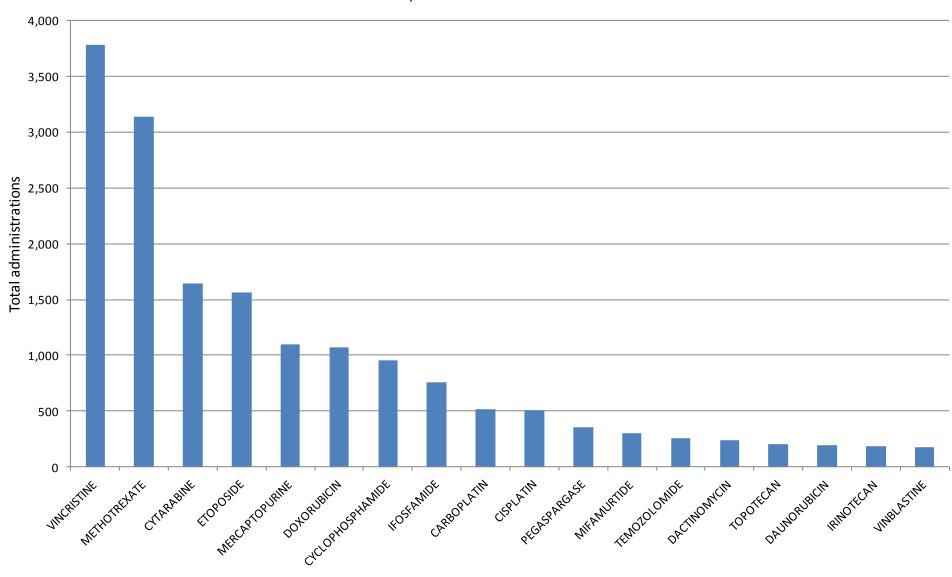
- Alder Hey, Liverpool
- Birmingham Childrens & University Hospital
- Manchester
- Leeds
- Newcastle
- Royal Marsden
- UCLH
- Leicester





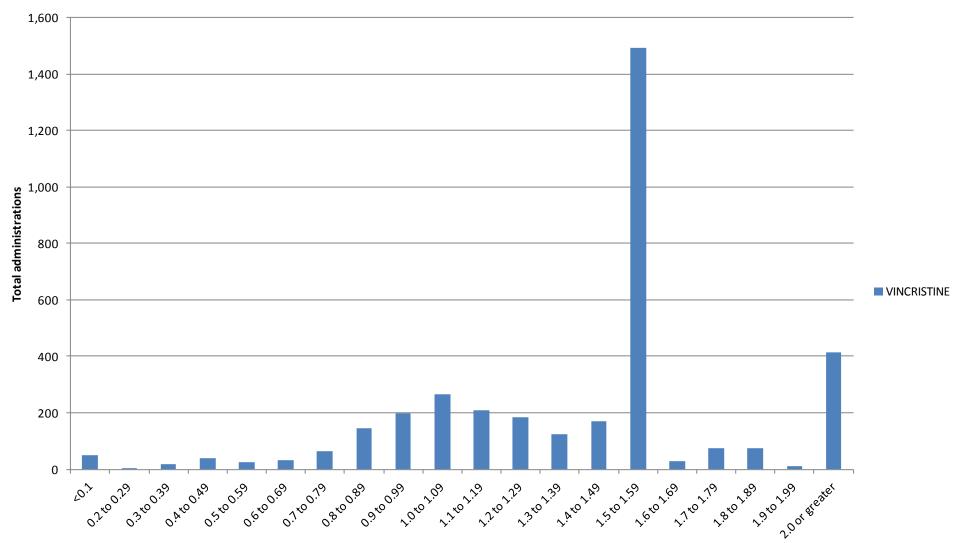
Top paediatric chemotherapy drugs by total administrations

Source: SACT, accessed 9th December 2013



Variations in adminstered dose of VINCRISTINE for paediatric chemotherapy

Source: SACT, accessed 9th December 2013



Dose of administration

Starting to group paediatrics

	National List: Regimen Name (dataset				Usual Cycle
Diagnosis		Program	Regimen		Length
	ALL ALLR3 FLAD Phase IV		ALL ALLR3 FLAD Phase IV	-	7 days
·	ALL ALLR3 FLAD Phase IV		ALL ALLR3 FLAD Phase IV	+ *	7 days
	ALL ALLR3 FLAD Phase IV		ALL ALLR3 FLAD Phase IV		7 days
·	ALL ALLR3 FLAD Phase IV	<u>'</u>	ALL ALLR3 FLAD Phase IV	Liposomal Daunorub	
	ALL ALLR3 S/IR Int Mnt Wk14-19 +XRT		ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk14 to 19 + XRT	•	42 days
·	ALL ALLR3 S/IR Int Mnt Wk14-19 +XRT		ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk14 to 19 + XRT		42 days
·	ALL ALLR3 S/IR Int Mnt Wk14-19 +XRT	· · ·	ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk14 to 19 + XRT		42 days
		' '	· ·		42 days
	ALL ALL B3 S/IR Int Mnt Wk14-19 +XRT		ALL ALL R3 Phase V: Interim Maintenance - Cycle 1 wk14 to 19 + XRT		
	ALL ALL B3 S/IR Int Mnt Wk14-19 +XRT	· · · · · ·	ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk14 to 19 + XRT		42 days
	ALL ALLR3 S/IR Int Mnt Wk20-21 +XRT	<u>'</u>	ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk 20 to 21 + XRT		14 days
	ALL ALLR3 S/IR Int Mnt Wk20-21 +XRT		ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk 20 to 21 + XRT		14 days
	ALL ALLR3 S/IR Int Mnt Wk20-21 +XRT	<u>'</u>	ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk 20 to 21 + XRT		14 days
	ALL ALLR3 S/IR Int Mnt Wk20-21 +XRT	' '	ALL ALLR3 Phase V: Interim Maintenance - Cycle 1 wk 20 to 21 + XRT	_	14 days
	ALL ALLR3 S/IR Int Mnt Wk22-27+XRT		ALL ALLR3 Phase V: Interim Maintenance - Cycle 2 wk22 to 27 + XRT		42 days
	ALL ALLR3 S/IR Int Mnt Wk22-27+XRT	' '	ALL ALLR3 Phase V: Interim Maintenance - Cycle 2 wk22 to 27 + XRT		42 days
	ALL ALLR3 S/IR Int Mnt Wk22-27+XRT	' '	ALL ALLR3 Phase V: Interim Maintenance - Cycle 2 wk22 to 27 + XRT		42 days
I Leukaemias,	ALL ALLR3 S/IR Int Mnt Wk22-27+XRT	ALL, Relapsed - R3	ALL ALLR3 Phase V: Interim Maintenance - Cycle 2 wk22 to 27 + XRT	Methotrexate	42 days
I Leukaemias,	ALL ALLR3 S/IR Int Mnt Wk22-27+XRT	ALL, Relapsed - R3	ALL ALLR3 Phase V: Interim Maintenance - Cycle 2 wk22 to 27 + XRT	Vincristine	42 days
		T		T	1
,	-		ALL Ph+ve Dasatinib - Consolidation HR3 E.coli Asparaginase		21 days
I Leukaemias,	ALL Ph+ve Dastinb Cons HR3 EcoliAsp	Dasatinib in Philade	ALL Ph+ve Dasatinib - Consolidation HR3 E.coli Asparaginase		21 days
I Leukaemias,	ALL Ph+ve Dastinb Cons HR3 EcoliAsp	Dasatinib in Philade	ALL Ph+ve Dasatinib - Consolidation HR3 E.coli Asparaginase	Dexamethasone	21 days
I Leukaemias,	ALL Ph+ve Dastinb Cons HR3 EcoliAsp	Dasatinib in Philade	ALL Ph+ve Dasatinib - Consolidation HR3 E.coli Asparaginase	E. coli asparaginase	21 days
I Leukaemias,	ALL Ph+ve Dastinb Cons HR3 EcoliAsp	Dasatinib in Philade	ALL Ph+ve Dasatinib - Consolidation HR3 E.coli Asparaginase	Etoposide	21 days
I Leukaemias,	ALL UKALL 2011 HD MtxA (Protocol M)	ALL, UKALL 2011	ALL UKALL 2011 High Dose Methotrexate Regimen A (Protocol M)	6-Mercaptopurine	63 days
l Leukaemias,	ALL UKALL 2011 HD MtxA (Protocol M)	ALL, UKALL 2011	ALL UKALL 2011 High Dose Methotrexate Regimen A (Protocol M)	Calcium Folinate	63 days
I Leukaemias,	ALL UKALL 2011 HD MtxA (Protocol M)	ALL, UKALL 2011	ALL UKALL 2011 High Dose Methotrexate Regimen A (Protocol M)	Methotrexate	63 days
I Leukaemias,	ALL UKALL 2011 HD MtxB (Protocol M)	ALL, UKALL 2011	ALL UKALL 2011 High Dose Methotrexate Regimen B (Protocol M)	6-Mercaptopurine	63 days
I Leukaemias,	ALL UKALL 2011 HD MtxB (Protocol M)		ALL UKALL 2011 High Dose Methotrexate Regimen B (Protocol M)		63 days
I Leukaemias,	ALL UKALL 2011 HD MtxB (Protocol M)	ALL, UKALL 2011	ALL UKALL 2011 High Dose Methotrexate Regimen B (Protocol M)	Methotrexate	63 days
I Leukaemias,	ALL UKALL2003 A: Ph VII Maint wk39+	ALL, UKALL 2011	ALL UKALL2003 Regimen A: Phase VII - Maintenance (wk39 +)	6-Mercaptopurine	84 days
I Leukaemias,	ALL UKALL2003 A: Ph VII Maint wk39+	ALL, UKALL 2011	ALL UKALL2003 Regimen A: Phase VII - Maintenance (wk39 +)		84 days
l Leukaemias,	ALL UKALL2003 A: Ph VII Maint wk39+		ALL UKALL2003 Regimen A: Phase VII - Maintenance (wk39 +)		84 days
I Leukaemias,	ALL UKALL2003 A: Ph VII Maint wk39+	· · · · · · · · · · · · · · · · · · ·	ALL UKALL2003 Regimen A: Phase VII - Maintenance (wk39 +)		84 days
		- ,			

Update

- Business case for increased investment will allow team to focus on completeness and quality of returns inc. paediatrics
- Linkage to death data being piloted to regimen level
- New option for treatment intent disease modification (D). This is defined as "an anticipated clinical improvement of at least a year's duration"





Next steps

- Requires complete national coverage
- Needs support of paediatric community and a consensus approach
- When we have full geographical coverage and complete data submissions, what are your burning issues?







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