Summary of Ticket Number and Request for MTAC Screen

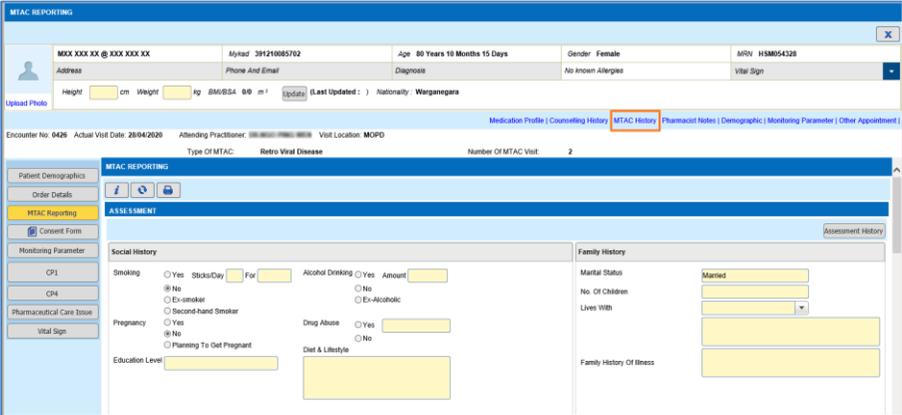| No.	Ticket #	Description	Requests	Solution
1.	I-PhIS0129 64015S	User request to add filtration for MTAC Type Step: Click Patient Name Click Pharmacist Note Appear Data visit location Select Type of service: MTAC will appear all Pharmacist note For 4 visit got 4 date. Currently user do for MTAC diabetes n warfarin, takes time to filter one by one. User request filtration for type of MTAC.	User request to add filtration for MTAC Type Step Click Patient Name Click Pharmacist Note Appear Data visit location Select Type of service: MTAC will appear all Pharmacist note For 4 visit got 4 date. Currently user do for MTAC diabetes n warfarin, takes time to filter one by one. User request filtration for type of MTAC.	Pharmacist Note To add filtration by MTAC type Hyperlinks To rearrange the hyperlink - Demographic - Medication Profile - Pharmacist Note - MTAC History - Lab Parameter - CP2 History - Counselling History - Other Appointment - Drug Database MTAC History Section To display History list in added column 'cancel remark'
2.	I-PhIS0173 67916S	To rearrange the hyperlink - Demographic - Medication Profile - Pharmacist Note - MTAC History - Lab Parameter - CP2 History - Counselling History - Other Appointment - Drug Database	To rearrange the hyperlink - Demographic - Medication Profile - Pharmacist Note - MTAC History - Lab Parameter - CP2 History - Counselling History - Other Appointment - Drug Database	
3.	I-PhIS0325 37118S	MTAC History Section: Request to display History list in added column 'cancel remark'	MTAC History Section: Request to display History list in added column 'cancel remark'	

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
1. Pharmacist Note	Pharmacy → Clinical → MTAC Reporting → Pharmacist Note Hyperlink In version 2.2, there is no filtration by 'MTAC Type' in Pharmacist Note history 	Pharmacy → Clinical → MTAC Reporting → Pharmacist Note Hyperlink In new version 2.3, there is new column and filtration function for 'MTAC Type' in Pharmacist Note history - Select 'Type of service' – MTAC, another drop down field will appear for 'MTAC Type' - User can choose to filter record by MTAC Type
	Pharmacy → Clinical → MTAC Reporting → Pharmacist Note Hyperlink → Print Pharmacist Note In version 2.2, print Pharmacist Note function is not available 	Pharmacy → Clinical → MTAC Reporting → Pharmacist Note Hyperlink → Print Pharmacist Note In new version 2.3, user can print Pharmacist Note history by click on the print button
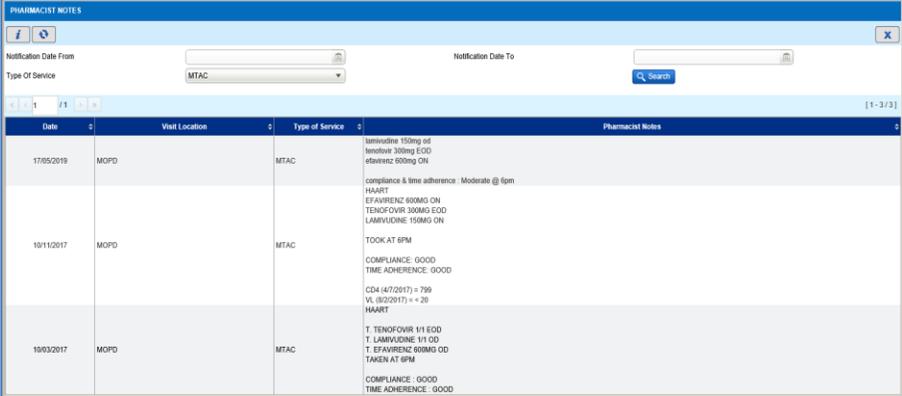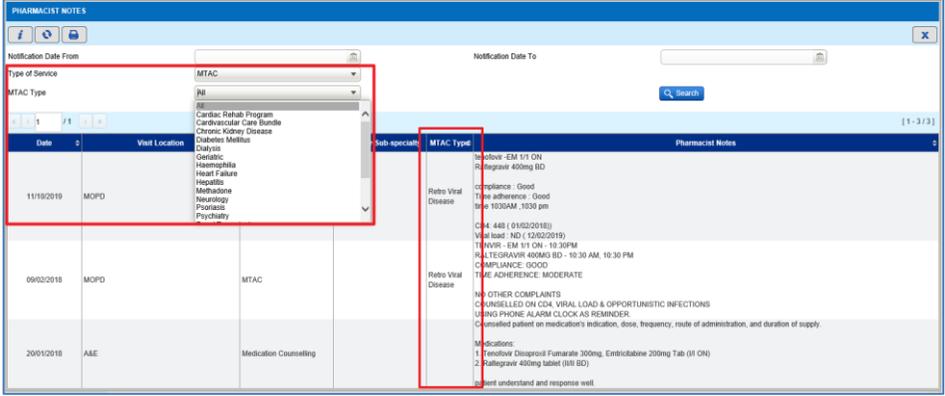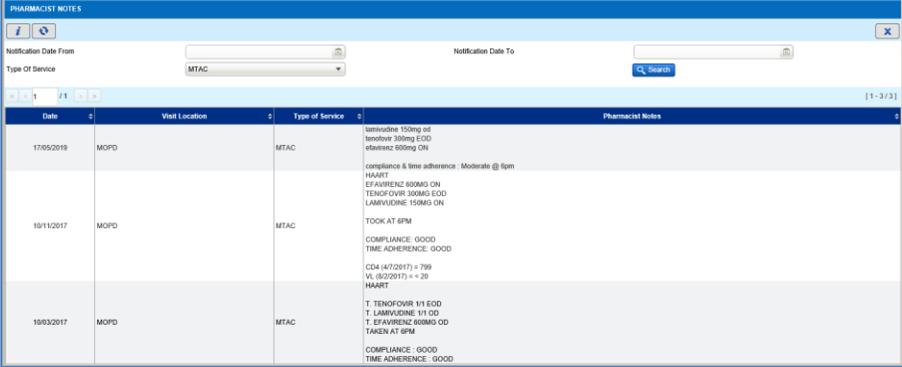
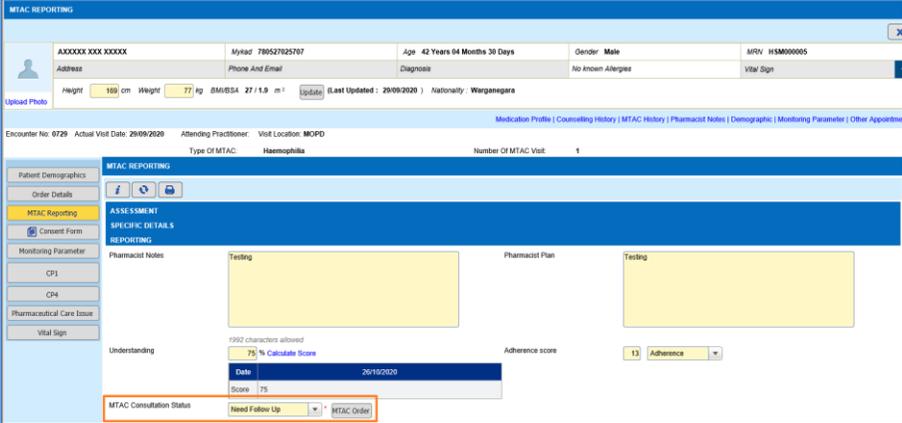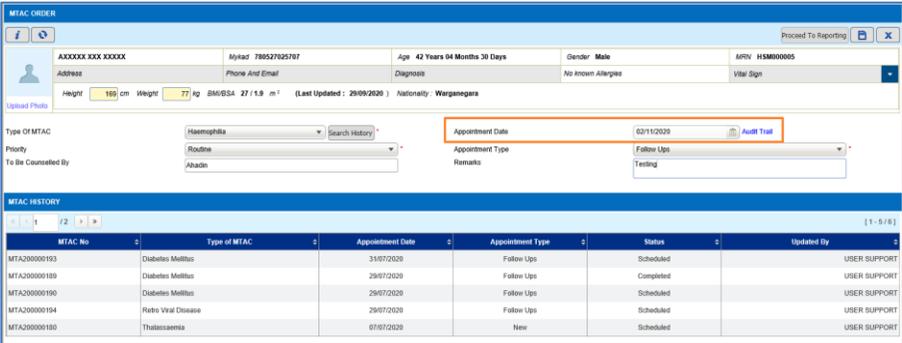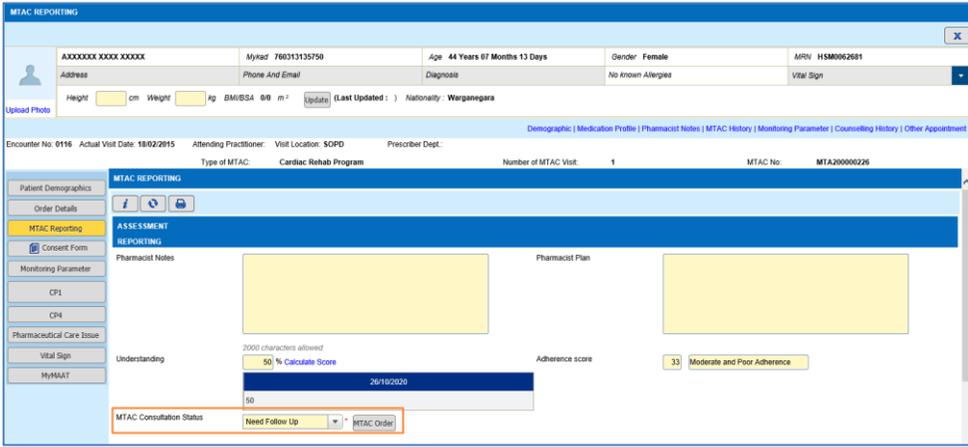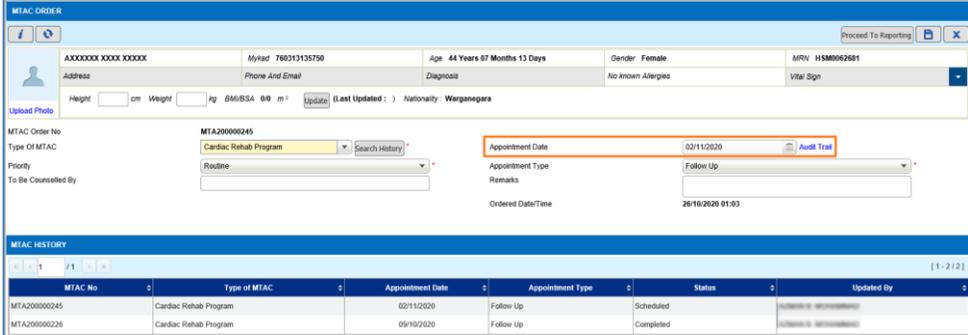| Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
		- System will generate report in PDF format as below: **KEMENTERIAN KESIHATAN MALAYSIA** **Hospital Seri Manjung** **Pharmacist Note**
2. Hyperlinks	Pharmacy → Clinical → MTAC Reporting → Hyperlinks In version 2.2, hyperlinks at the patient banner is as below: Medication Profile – Counselling History – MTAC History – Pharmacist Notes – Demographic – Monitoring Parameter – Other Appointment 	Pharmacy → Clinical → MTAC Reporting → Hyperlinks In new version 2.3, hyperlinks have been rearranged as below: Demographic - Medication Profile – Pharmacist Notes – MTAC History – Monitoring Parameter – Counselling History – Other Appointment
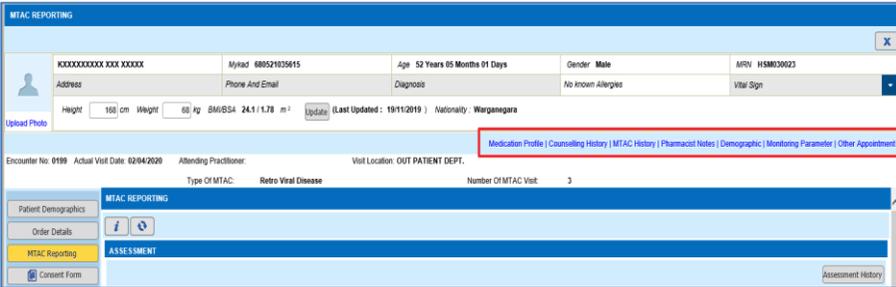
Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
3. MTAC History	Pharmacy → Clinical → MTAC Reporting → MTAC History hyperlink In version 2.2, MTAC History do not have 'cancel remarks' column - Open MTAC Reporting screen, click on 'MTAC History' hyperlink below patient banner - MTAC History listing screen will be display as below: 	Pharmacy → Clinical → MTAC Reporting → MTAC History hyperlink In new version 2.3, 'Cancel Remarks' column has been added to display cancel's remark - Open MTAC Reporting screen, click on 'MTAC History' hyperlink below patient banner - MTAC History listing screen will be display with 'Cancel Remarks' column as below: Note: • Cancelled remarks can be filled at 'Remarks' column after click on 'Cancel' button at Medication Counselling reporting screen
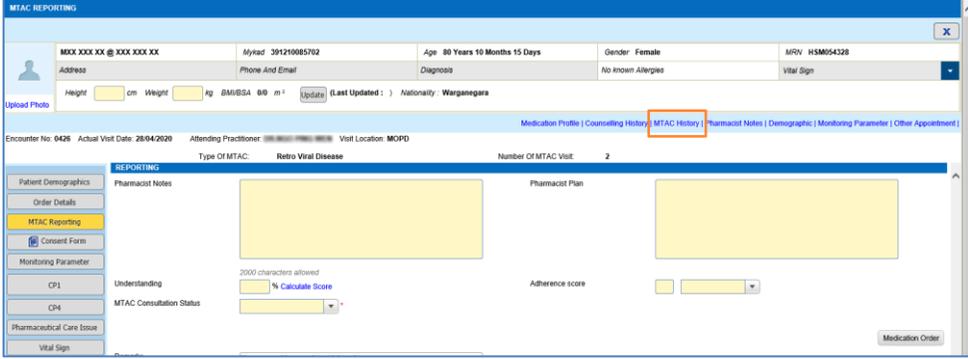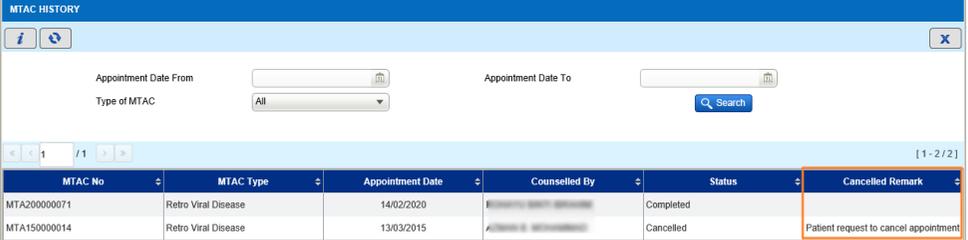
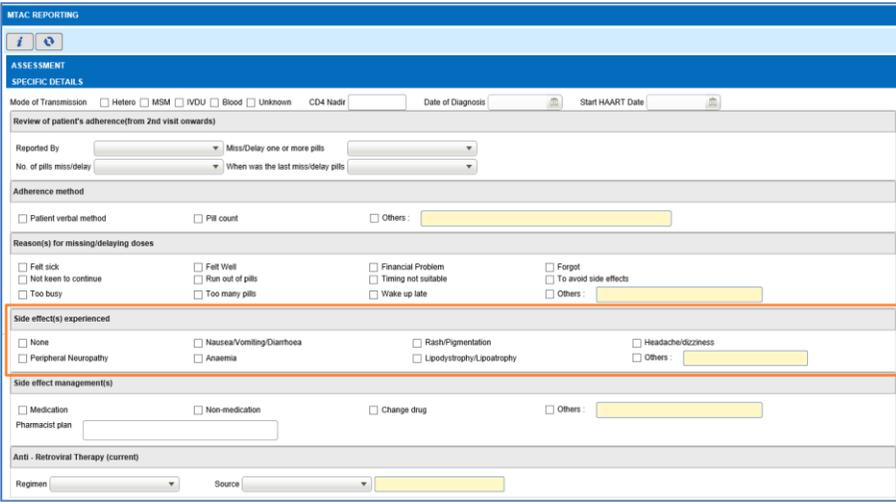| Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3

Summary of Ticket Number and Request for MTAC Screen

No.	Ticket #	Description	Requests	Solution
1.	I-PhIS055595719S	MTAC Haemophilia - Report printing -To add Follow up date	MTAC Haemophilia - to add follow up date in report printing	MTAC Haemophilia Report printing - To add Follow up date MTAC RVD 1. Report printing - To add Follow up date 2. Rearrange alphabetical order and position in 'Side effect(s) experienced MTAC Thalassemia specific details 1. Serum Ferritin Display at position on top before Iron Chelation Therapy 2. Reposition Serum Ferritin on top of Desferoxamine 3. MTAC Thalassemia - report printing: • To add Follow up date • To add thalassemia Knowledge Assessment MTAC Respiratory - Specific Details 1. Spirometry: • To rename labels: FEV1 (L) FVC (L) FEV1 /FVC (%) • To removed fields: FeNO (ppb) IgE (units/mL) 2. PEFR & Spirometry - To add Baseline column.
2.	I-PhIS055591319S	To add Follow up date	To add Follow up date	
3.	I-PhIS055593419S	Rearrange alphabetical order and position in 'Side effect(s) experienced	Rearrange alphabetical order and position in 'Side effect(s) experienced	
4.	I-PhIS055593319S	1. To add Follow up date 2. To add thalassemia Knowledge Assessment	1. To add Follow up date 2. To add Thalassemia Knowledge Assessment	
5.	I-PhIS055593119S	Serum Ferritin Display at position on top before Iron Chelation Therapy	Serum Ferritin Display at position on top before Iron Chelation Therapy	
6.	I-PhIS055593219S	Reposition Serum ferritin on top of Desferoxamine	Reposition Serum ferritin on top of Desferoxamine	
7.	I-PhIS055591819S	1. Possible Asthma Trigger - Others to be at the last 2. Spirometry - To rename labels: FEV1 (L) FVC (L) FEV1 /FVC (%) - To removed fields: FeNO (ppb) IgE (units/mL) 3. PEFR & Spirometry - To add Baseline column.	1. Possible Asthma Trigger - Others to be at the last 2. Spirometry - To rename labels: FEV1 (L) FVC (L) FEV1 /FVC (%) - To removed fields: FeNO (ppb) IgE (units/mL) 3. PEFR & Spirometry - To add Baseline column.	
8.	I-PhIS055605319S	To add Follow up date	To add Follow up date	
9.	I-PhIS055619119S	1. To add Psoriasis Severity: Mild: BSA<10%, PASI<10 Moderate: BSA= 10-20%, PSA = 10-20 Severe: BSA>20%, PASI>20 2. To add Nota Tambahan below severity index (PASI): Assessment	1. To add Psoriasis Severity: Mild: BSA<10%, PASI<10 Moderate: BSA= 10-20%, PSA = 10-20 Severe: BSA>20%, PASI>20 2. To add Nota Tambahan below severity index (PASI): Assessment	

No.	Ticket #	Description	Requests	Solution

10.	I-PhIS055619219S	1. To add scoring of each category
		eg:
		Very much (3)
		A lot (2)
		A little (1)
		Not At all (0)
		Not relevant (0)
		and for Question 7 : Yes(3)
			1. To add scoring of each category
			eg:
			Very much (3)
			A lot (2)
			A little (1)
			Not At all (0)
			Not relevant (0)
			and for Question 7 : Yes(3)
				MTAC Psoriasis
				1. MTAC Report printing
				- To add Follow up date
				2. To add Psoriasis Severity :
				   Mild: BSA<10%, PASI<10
				   Moderate: BSA= 10-20%, PSA = 10-20
				   Severe: BSA>20%, PASI>20
				3. To add 'Nota Tambahan' below severity index (PASI): Assessment
				4. To add scoring of each category
				   eg:
				   Very much (3)
				   A lot (2)
				   A little (1)
				   Not At all (0)
				   Not relevant (0)
				   and for Question 7 : Yes(3)
				
				MTAC Psoriasis Report printing
				1. To add Nota Tambahan below severity index (PASI): Assessment

11.	I-PhIS055645119S	1. To add title 'MTAC Psoriasis' 2. To add MRN: 3. To add MTAC Visit No: 4. To add IC No: 5. To add Nota Tambahan below severity index (PASI): Assessment	1. To add title 'MTAC Psoriasis' 2. To add MRN: 3. To add MTAC Visit No: 4. To add IC No: 5. To add Nota Tambahan below severity index (PASI): Assessment	
12.	I-PhIS055645319S	To add value for 1. Area (0-6) 2. Erythema (0-4) 3. Scaling (0-4) 4. Thickness (0-4) 5. To add Nota Tamabahan below severity index (PASI): Assessment	To add value for 1. Area (0-6) 2. Erythema (0-4) 3. Scaling (0-4) 4. Thickness (0-4) 5. To add Nota Tamabahan below severity index (PASI): Assessment	

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
1. MTAC – Follow Up Date	Pharmacy → Clinical → MTAC Reporting → Report printing In version 2.2, MTAC report printing did not display 'Follow Up' date 1) Open MTAC Reporting Screen 2) At reporting section, select 'MTAC Consultation Status' = 'Need Follow Up' and then click on 'Confirm' button 3) Click on 'MTAC Order' button to place follow up appointment 4) MTAC Follow Up appointment ordered as below: 5) Open back previous MTAC reporting to view the 'Follow Up' date	Pharmacy → Clinical → MTAC Reporting → Report printing In new version 2.3, MTAC report printing is display 'Follow Up' date at the report printing 1) Open MTAC Reporting Screen 2) At reporting section, select 'MTAC Consultation Status' = 'Need Follow Up' and then click on 'Confirm' button 3) Click on 'MTAC Order' button to place follow up appointment 4) MTAC Follow Up appointment ordered as below: 5) Open back previous MTAC reporting to view the 'Follow Up' date

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
	6) Click on 'Print' button to print MTAC reporting report 7) Report will be display in pdf format as below: 	6) Click on 'Print' button to print MTAC reporting report 7) Report will be display in pdf format with 'Follow Up' date been display

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
2. MTAC – Retro Viral Disease	Pharmacy → Clinical → MTAC Reporting (Retro Viral Disease) → Specific Details In version 2.2, Specific details screen for MTAC – Retro Viral Disease is as below: 	Pharmacy → Clinical → MTAC Reporting (Retro Viral Disease) → Specific Details In new version 2.3, Specific details screen for MTAC – Retro Viral Disease has been rearranged in alphabetical order for 'Side effect(s) experienced' section as below:

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
3. MTAC – Thalassaemia	Pharmacy → Clinical → MTAC Reporting (Thalassaemia) → Specific Details In version 2.2, Specific details screen for MTAC – Thalassaemia is as below: 	Pharmacy → Clinical → MTAC Reporting (Thalassaemia) → Specific Details In new version 2.3, Specific details screen for MTAC – Thalassaemia has been changed as below: 1. 'Serum Ferritin' has been rearranged to be on top of 'Iron Chelation Therapy' 2. 'Thalassemia Knowledge Assessment' has been added • Click on the 'Thalassaemia Knowledge Assessment' button to open Thalassaemia Knowledge Assessment screen as below:
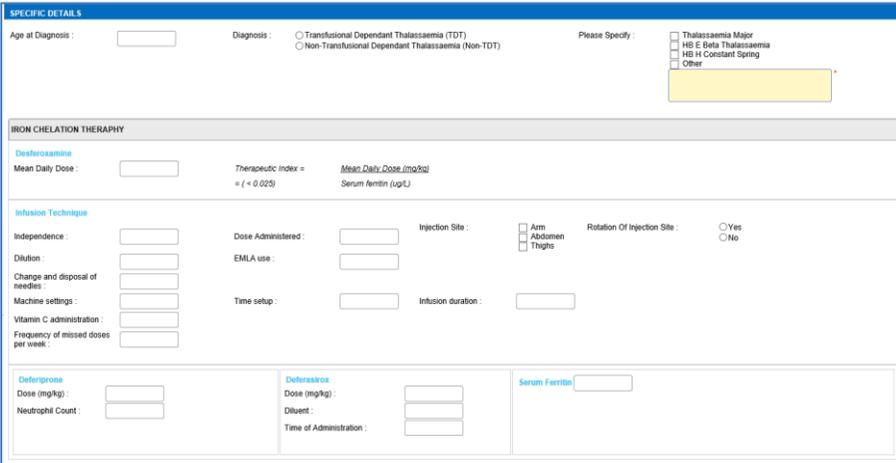
Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
		  • By default, assessment will be displayed in English • Click on 'Malay' button to open assessment in 'Malay' as below: • Click on 'Print' button, Thalassaemia Knowledge Assessment report will be displayed in pdf format with language selected

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
		- Thalassaemia Knowledge Assessment report in Malay

Thalassaemia Knowledge Assessment

Name : MXX XXXX XXXXXXX XXXXX XXXX   Date : 27/10/2020

Bahagian 1 : Pengetahuan tentang Talasemia

1. Apakah jenis penyakit Talasemia anda ?
   - [ ] beta Thalassaemia Major
   - [ ] HB E Beta Thalassaemia
   - [ ] Beta Thalassaemia Intermediate
   - [ ] HB H Constant Spring
   - [x] Others : Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condiment100

2.	Talasemia ialah kecacatan darah disebabkan genetik.	Ya
3.	Penyakit Talasemia diwarisi daripada ibu dan bapa tang merupakan pembawa gen Talasemia.	Tidak
4.	Penyakit Talasemia boleh dicegah dengan menjalani ujian saringan darah pra perkahwinan dan mengelakkan perkahwinan antara pembawa Talasemia.	Ya
5.	Transfusi darah, penyingkiran zat besi dan pemindahan sumsum tulang adalah antara rawatan Talasemia.	Tidak

Bahagian 2 : Pengetahuan Am

6.	Pemindahan darah secara kerap merupakan sebab utama kelebihan zat besi dalam pesakit Talasemia.	Ya
7.	Penyingkiran besi untuk pesakit Talasemia boleh dilakukan melalui suntikan, makan ubat dan pembedahan.	Ya
8.	Splenomegaly bermaksud pembesaran limpa disebabkan rawatan transfusi yang tidak mencukupi.	Ya
9.	Pesakit Talasemia perlu mengamalkan diet tinggi zat besi.	Ya

Bahagian 3 : Rawatan

10. Apakah tahap hemoglobin anda pada hari menerima transfusi darah ? (sebelum transfusi)

   Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean convallis enim ut nisl condiment100

11. Pengelat besi yang saya gunakan sekarang adalah seperti berikut :

	Dose
Deferasirox	4444444444.00
Deferoxamine	4444444444.00
Deferiprone	4444444444.00

12. Saya tahu kesan sampingan pengelat besi yang saya ambil. Sila nyatakan :

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Bahagian 4 : Komplikasi

13.	Pengumpulan besi dalam badan boleh menyebabkan kerosakan organ-organ dalaman badan seperti hati, jantung, kelenjar endokrin dan organ seksual.	Ya
14.	Sekiranya limpa anda dikeluarkan, anda lebih cenderung untuk mendapat jangkitan dan dinasihatkan untuk menerima vaksin seperti yang disarankan oleh doktor anda.	Ya

Bahagian 5 : Sokongan Psikososial

15.	Adakah tekanan emosi perlukan bantuan ?	Ya
16.	Saya boleh mendapat sokongan emosi dengan berkongsi masalah dengan keluarga/kawan-kawan rapat sata atau berjumpa pegawai Psikologi/kaunselor.	Ya
	Score	\16

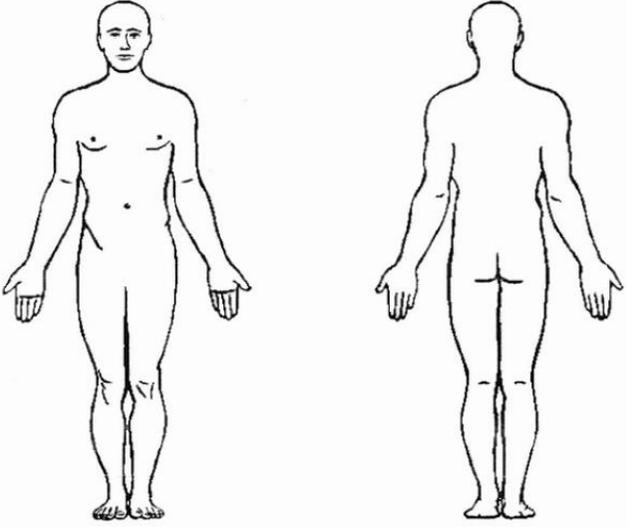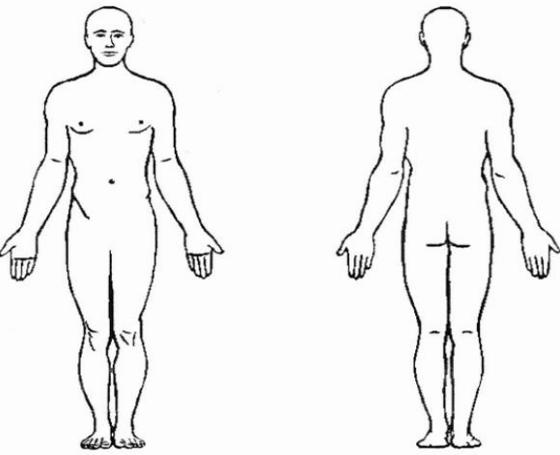| Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
		- Thalassaemia Knowledge Assessment report in English **Thalassaemia Knowledge Assessment** Name : NXXXXXXXXXXX XXXXX XXXXX XXXX Date : 26/10/2020 **Part 1 : Knowledge Assessment** 1. What is your Thalassaemia Type ? ☐ beta Thalassaemia Major ☐ HB E Beta Thalassaemia ☐ Beta Thalassaemia Intermediate ☐ HB H Constant Spring ☐ Others : 2. Thalassaemia is a genetic blood disorder. — No 3. Thalassaemia is inheritated from both parents who carry thalassaemia gene. — No 4. Thalassaemia can be preventedby doing premarital screening and avoid marriage between two carriers. — No 5. Blood transfusion, iron chelation theraphy and bone marrow transplants are among the thalassaemia treatments. — Yes **Part 2 : General Knowledge** 6. Regular blood transfusion is the main cause of iron overload in thalassaemia patients. — No 7. Iron removal in thalassaemia patient can be done through injection, oral pills and surgery. — Yes 8. Splenomegaly is defined as enlargement of the spleen caused by inadequate blood transfusion. — Yes 9. Thalassaemia patient has to practice high iron diet. — Yes **Part 3 : Treatment** 10. What is your hemoglobin level when you are getting your transfusion ? (before transfusion) 11. I am currently using these iron chelators : Dose Deferasirox Deferoxamine Deferiprone 12. I know the side effects of the iron chelators I am taking. Please mention : **Part 4 : Complications** 13. Iron overload will be harmful to the internal organs such as liver, heart, thyroid gland and sex organs. — Yes 14. Patient with spleen removed are prone for infections and advised to receive neccessary vaccinations as advised by your doctor. — No **Part 5 : Psychosocial Support** 15. Do emotional stresses need help ? — No 16. I can get emotional support by sharing problems with family/ close friends or meeting with Psychologist/ counselors. — Yes

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3

4. MTAC – Respiratory	Pharmacy → Clinical → MTAC Reporting (Respiratory) → Specific Details
	In version 2.2, Specific details screen for MTAC – Respiratory is as below:
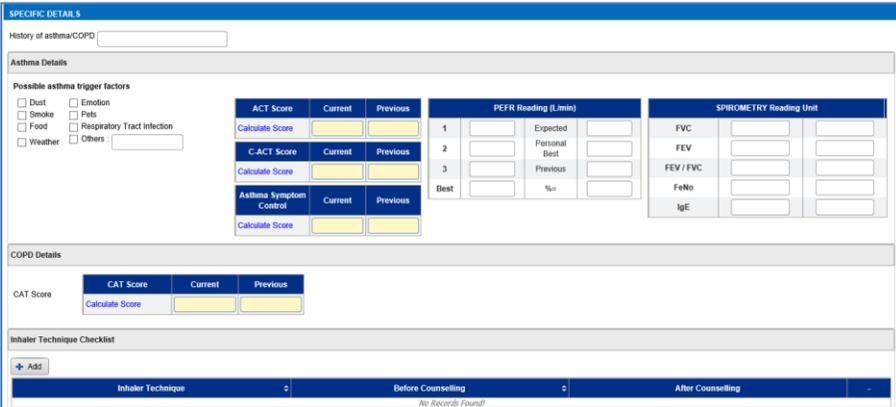	
		Pharmacy → Clinical → MTAC Reporting (Respiratory) → Specific Details
		In new version 2.3, Specific details screen for MTAC – Respiratory has been changed as below:
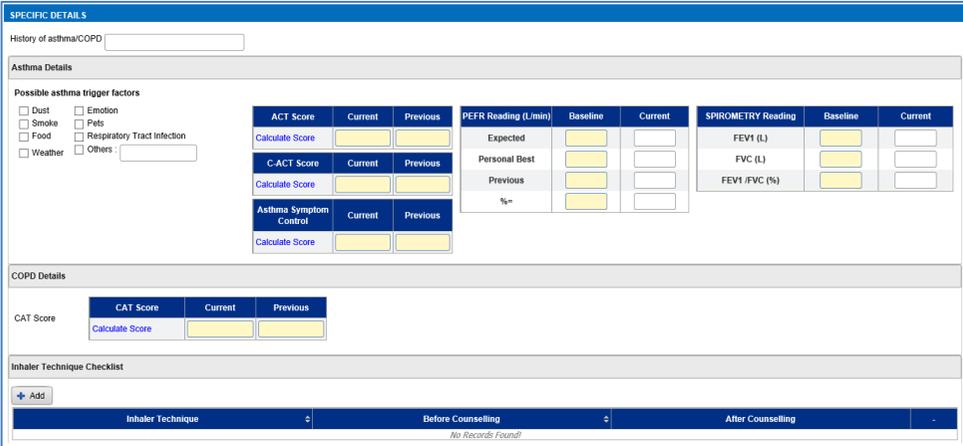		
		1) Spirometry Reading:
		  • Labels has been renamed as below:
		    - FEV1 (L)
		    - FVC (L)
		    - FEV1 /FVC (%)
		  • Below fields has been removed:
		    - FeNO (ppb)
		    - IgE (units/mL)

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3

		2) PEFR & Spirometry
		• 'Baseline' column has been added
		
		PEFR Reading (L/min) | Baseline | Current **SPIROMETRY Reading** | Baseline | Current
		Expected / Personal Best / Previous / %= FEV1 (L) / FVC (L) / FEV1 /FVC (%)
		
		• This 'Baseline' column is a **read only** fields which is to captured value from the **first** Spirometry reading created (User entered at 'Current' field)
		• Data captured at 'Baseline' field will be remain and will not be replaced until patient has been 'Discharged' from the MTAC respiratory visit
		• If during the first PEFR/ Spirometry reading record, some field is empty, system still captures it as a baseline record
		Example for PEFR Reading:
		  • User only fill in Expected & Previous PEFR reading on the 1st visit
		  • On the 2nd visit the baseline shall be have value for Expected & Previous fields only, where Personal Best and %= shall be empty
		  • If the next visit user fills in those empty field it won't change/ replace the baseline recorded
		Example for Spirometry Reading:
		  • User only fill in FVC(L) and FEV1(L) Spirometry reading on the 1st visit
		  • On the 2nd visit the baseline shall be have value for FVC(L) and FEV1(L) only, where FEV1 /FVC (%) shall be empty
		  • If the next visit user fills in those empty field it won't change/ replace the baseline recorded

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
		Note: PEFR & SPIROMETRY Readings records shall be treated as two different indicators, where baseline recorded shall be based on 1st entry for each PEFR & SPIROMETRY Example Scenario: 1st visit – User did not fill in for both PEFR & SPIROMETRY Readings 2nd visit, only PEFR reading been entered --> this record will be baseline for PEFR, but spirometry will remain empty 3rd visit, User fill in records for SPIROMETRY Reading, so this record will be the baseline for SPIROMETRY Reading • 'Baseline' column also will be displayed at MTAC Respiratory report printing as below:

Respiratory Assessment:

History of asthma/COPD :

Asthma details	Possible asthma trigger factors :		PEFR Readings		Baseline	Current
				Expected	30	40
				Personal Best	20	20
				Previous	10	20
				% =	50	10
	ACT Score ;	Current :	Spirometry Readings		Baseline	Current
		Previous :		FEV1(L)	10	20
	C-ACT Score ;	Current :		FVC(L)	20	30
		Previous :		FEV1 / FVC (%)	50	66
	ASC Score ;	Current :				
		Previous :				
COPD details	CAT Score ;	Current : 0 Low Impact				
		Previous :				

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3

5. MTAC – Psoriasis	Pharmacy → Clinical → MTAC Reporting (Psoriasis) → Specific Details
	
	In version 2.2, Specific details screen for MTAC – Psoriasis is as below:
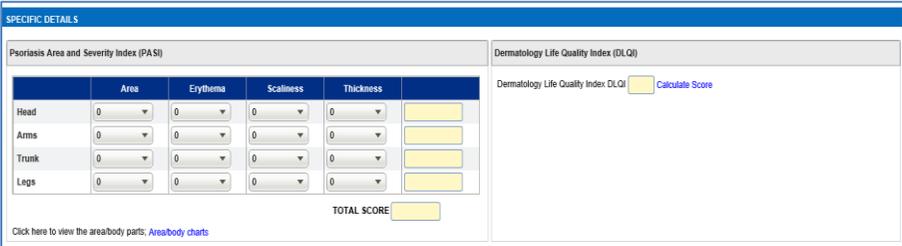	
		Pharmacy → Clinical → MTAC Reporting (Psoriasis) → Specific Details
		
		In new version 2.3, Specific details screen for MTAC – Psoriasis has been changed as below:
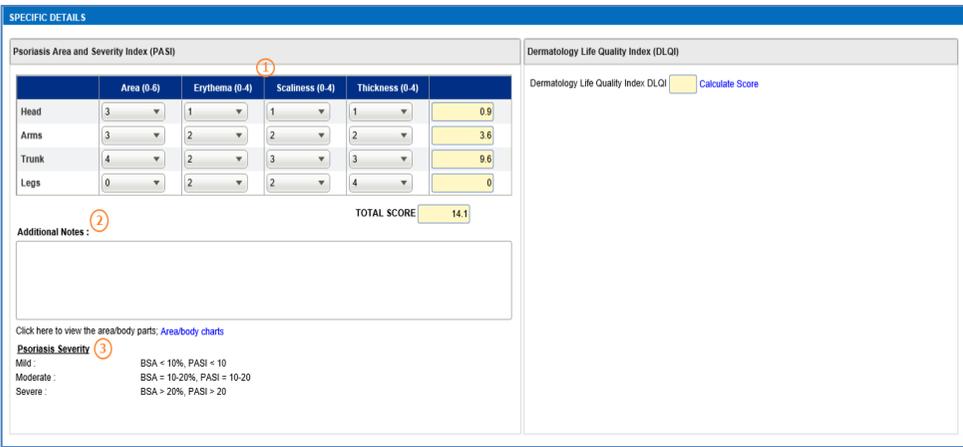		
		Psoriasis Area and Severity Index (PASI)
		
		1) Displayed number to represent the value of the header as below:
		    1. Area (0-6)
		    2. Erythema (0-4)
		    3. Scaling (0-4)
		    4. Thickness (0-4)
		2) Added new field for 'Additional Notes' below Psoriasis Area and Severity Index (PASI)
		3) Displayed information on Psoriasis Severity at the specific details screen, information as below:
		Psoriasis Severity
		Mild: BSA<10%, PASI<10
		Moderate: BSA= 10-20%, PSA = 10-20
		Severe: BSA>20%, PASI>20

Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
	Dermatology Life Quality Index (DLQI) In version 2.2, Dermatology Life Quality Index (DLQI) screen is as below: Click on 'Calculate Score; Hyperlink to open the Dermatology Life Quality Index (DLQI) screen 	Dermatology Life Quality Index (DLQI) In new version 2.3, Dermatology Life Quality Index (DLQI) screen is as below: Click on 'Calculate Score; Hyperlink to open the Dermatology Life Quality Index (DLQI) screen 1) 'Answer' for the 'Question' has been labelled with the score as below: Very much (3) A lot (2) A little (1) Not At all (0) Not relevant (0) and for Question 7 : Yes(3), No (0), Not Relevant (0)
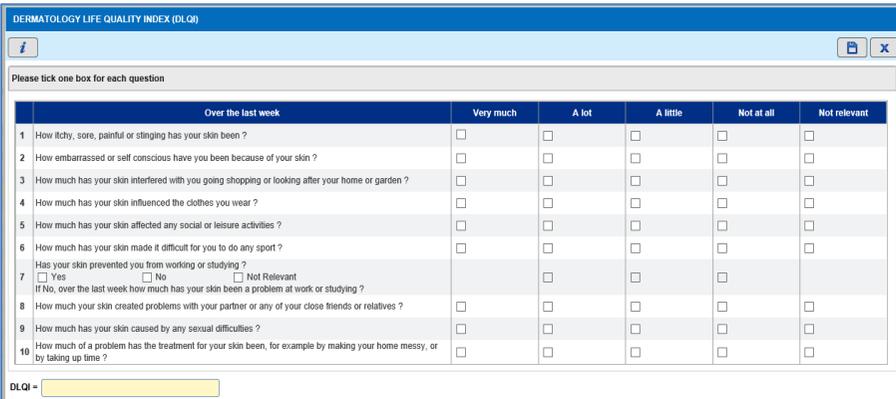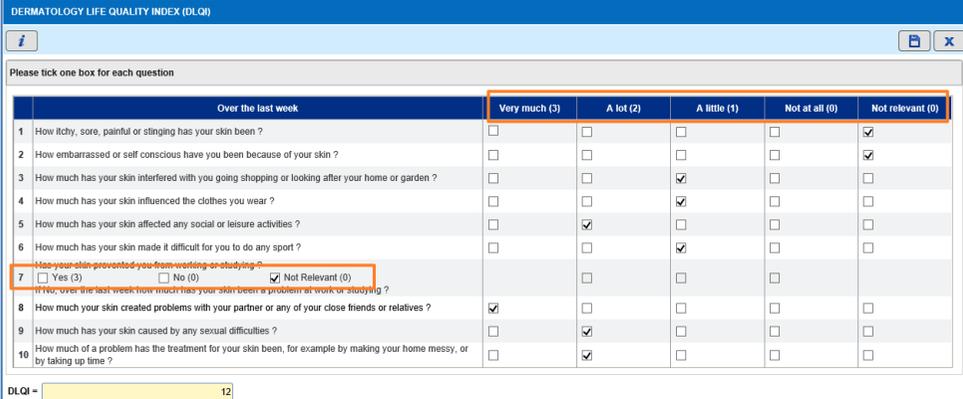
Function Flow	MTAC Screen in current Version 2.2	MTAC Screen in new Version 2.3
	MTAC Psoriasis report printing In version 2.2, MTAC Psoriasis report printing is as below: MTAC Psoriasis specific details → Click on 'Area/body charts' hyperlink 	MTAC Psoriasis report printing In new version 2.3, MTAC Psoriasis report printing has been changed as below: 1) Displayed information of Psoriasis Severity Index MTAC Psoriasis specific details → Click on 'Area/body charts' hyperlink