

Case Book





Narrow Upper Arch, Severe Lower Crowding

Pre-Treatment

21 YO Female

Final













Number of aligners: U=21 L=24
Duration of treatment: 12 months

No attachments. No IPR. No revisions.





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6	3			BTO	BTR	0						BTP	вто	(6)		
7						DTP					MTP	BTP	BTP			
8						DTP	DTP					BTP	BTP	(6)		
9							DTP									
10				DTP	DTP	DTP	DTR	DTP			BTP			(6)		
11					DTP	DTP	DTO	DTP			BTP	BTP				
12						DTR	DTP	DTP	2		BTR	BTP		6		
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9				BTP	BTP						BTR	BTR	BTR			
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19						DTP		LTP	LTP	вто		BTP				
20							DTP	LTP	LTP	MRO	MRO					
21							DTO			DTO		вто				
22							вто		вто		вто					
23						вто		вто		вто						
24							LTP	LTP	вто		вто					\vdash



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	мто	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation





Narrow Arches, Crowding

Pre-Treatment

19 YO Male

Final













Number of aligners: U=17 L=23
Duration of treatment: 12 months
Extraction of lower left central incisor.

No attachments. No revisions.





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17				BTP	BTP	BTP					BTR	BTR	BTR			
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20			8			LTP	LTP	LTP		LTP	LTP					
21						LTR	LTR	LTR		LTR	LTR					
22						LTP	LTP	LTP		LTR	LTP					
23						LTR	LTR	LTR		LTR	LTR					



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	мто	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation





Anterior Crossbite, Crowding

Pre-Treatment

24 YO Female

Final













Number of aligners: U=21 L=23 *No attachments. No IPR. No revisions.*





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15				BTP	MRO			MRO	BTR	DRO	MRO						T -	16				-	_	LTP	LTP	LTP	LTP		-	-	-		_	\rightarrow
16								MRO	BTP	DRO	MRO		MTO				[-	17				-	-	LTP	MTP	MTP	DTP	-	-	-	-			\rightarrow
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Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	МТО	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation





Narrow Upper Arch, Severe Crowding Upper & Lower

Pre-Treatment

28 YO Male

Final













Number of aligners: U=26 L=26
Duration of treatment: 13 months

No attachments. No IPR. No revisions.





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4					MTP	DTO				DTO	DTP						
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9					MTO				DTO	DTP	DTO						
10			MTP		MTP				DTP	DTO							
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12			MTO				DRO	MTP	DTO	DTP							
13		MTP					DRO	MTR	DTP	DTR							
14		MTP					DRO	MTP	DTP	DTP							2.8
15		MTO					DRO	LTP	LTP	DTP							
16			MTP				DRO	LTO	MRO				MTP	MRO			
17			MTP				DRO	LTP	MRO				MTP	MRO			
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19		MTP					EXT	LTR	LTP								
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18						DTP	LTR	LTP		LTP	DTR					-
19						DTR	LTP	LTR		LTR	DTP					
20						DTO	LTP	LTP	LTP	LTP	DTO					
21						DTO	LTR	LTP	LTR	LTP	DTO					
22							LTP	LTR	LTP	LTR						
23		6 8	- 3				LTP	LTO	LTP	LTO						
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Upper



Code Movement Details Code Movement Details Code Movement Details MTR Mesial Translation MTP Mesial Tipping DTO Distal Torque **DTR** Distal Translation DTP **Distal Tipping** MTO Mesial Torque LTR Lingual Translation BTP **Buccal Tipping** INT Intrusion BTR Buccal Translation вто **Buccal Torque** EXT Extrusion LTP Lingual Tipping Lingual Torque DRO Distal Rotation LTO

Lower



Narrow Upper Arch, Crowding, High Canines

Pre-Treatment

17 YO Female

Final













Number of aligners: U=25 L=25
Duration of treatment: 14 months
Elastic button technique (EBT), for extrusion of upper and lower canines from stage 15 to 21.

No attachments. No IPR. No revisions.





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12				DTP	DTP							BTO	BTP			1
13				BTR	BTO							BTP	BTO		100	
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15						EXT		BTP	BTP	MRO	BTP		BTP			
16				BTP		EXT		BTP	BTP	DTP	EXT					
17				BTP		EXT		BTP	BTP	MRO	EXT					
18						EXT		BTP	BTP		EXT					
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24		19			10			INT				8			9	
25									INT						1	

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16							BTP	BTP	BTP	BTP						
17							BTP	BTP	BTP	BTP						
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25							INT		INT							



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	мто	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation





Overjet, Crowding

Pre-Treatment

25 YO Female

Final













Number of aligners: U=14 L=14
Duration of treatment: 7 months
Interproximal reduction (IPR) and expansion.

No attachments. No revisions.





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4				DRO	BTP							BTP	DRO				
5					DTP	DRO					DTP	DTP					
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7						DTP	BTP			DTP	DTP						
8						DRO	BTR	LTP	DTP					3			
9							BTP				MRO	BTR	BTP				
10						DTO		LTP	MTO		LTO						
11						DRO	DTP	LTR	LTP								
12						S 0	DRO	DTO	LTP	DTR	MTO			25 - 36			
13						DTO	INT	LTP	INT		INT						
14						INT	DTP	INT	MRO	INT							

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9					DRO		BTR					BTP	DRO			
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11							DTP	DRO	DRO	DTP						
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13						INT	DTO	INT	DTO	INT						
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Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	мто	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation



Severe Crowding Upper & Lower

Pre-Treatment

25 YO Male

Final













Number of aligners: U=28 L=28
Duration of treatment: 14 months
Interproximal reduction (IPR) in posterior teeth.

No attachments. No revisions.





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23						1	LTP	LTR	LTP	DTR						
24					мто			1	DTR	DTP	DTO					\vdash
25					1000000	LTR	LTP	LTR	LTP	DTR						T
26				1				INT								\vdash
27						2	LTP	LTP	LTP		1					
28					_		LTP	LTP	LTP	LTP					$\overline{}$	+

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2				DRO		7.000						0.000	DRO			
3				DRO	DTR								BTR			
4				DTP	DTP							DTR	DTP			
5					DTR	BTP					DTR	DTP				
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7					DTR	DTP		BTP	BTR		DTR					
8					DTP	DTR		BTR	BTP		DTP					
9		10 7				DTP	BTR	BTP	BTR	BTP						
10		(c)				DTR	BTP	BTR	BTP	BTR						
11						DTP	BTR	BTP	BTR	BTP						
12						BTR	BTP	BTR	BTP	BTR						
13		1				BTP	BTR	BTP	BTR	BTP	f					
14							BTP	BTR	BTP	BTR						
15							BTR	BTP	MRO	BTP						
16							BTP			BTR						
17		3				4	BTR			BTP	MRO					-
18					BTR		DRO			DRO	LTR					
19						MRO	DRO	BTP	BTR	DRO	1					
20	2 3						DRO	BTR	DRO	DRO	1 6					
21							DRO	LTP	LTP	МТО	10 8					
22	J I					LTP	DTO			MTO	LTP	MTO				
23					DRO		DRO	LTP	LTP	LTP						
24						LTO		DTO		1	LTO					
25		i,				мто			MTO	DRO	MTO					
26							LTP	LTP	LTP	LTP	LTP					
27						EXT		-			EXT					
28	1 3					LTP	DTO				()					
29																
2.0	-						1	-						1		

Upper



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	МТО	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation

Lower



Severe Crowding, Extractions, Expansion

Pre-Treatment

26 YO Male

Final













Number of aligners: U=25 L=25
Duration of treatment: 14 months
Extraction of upper 1st premolars & expansion.

No attachments. No IPR. No revisions.





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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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2						DTP				8	DTP		8		3 3	
3						DTP	1		5	ė,	DTP		8		8	
4			1			DTO					DTO					
5			18	1		DTP				8	DTP		1			
6			-			DTP	8				DTP		1		3	
7			1	LTP		DTO	8			8	DTO		LTP		9	
8				LTP		DTP	ė.	4			DTP		LTP		8	
9				LTP		DTP			S		DTP		LTP	44		
10				DRO			LTP			LTP			DRO			
11			BTP				LTP			LTP				BTP		
12			DRO				DTO			DTO				BTP		
13			DRO			20	LTP			LTP				BTP		
14			BTP				LTP	-		LTP				DRO		T
15			BTP	1			LTO			LTO				BTP		
16	- 41		BTP				LTP			LTP				BTP		
17		LTP						LTP	LTP	S-1					LTP	
18		LTP	(S			ŝ	į.	LTP	LTP	8			8		LTP	
19		LTP	6			ė.		LTP	LTP						LTP	
20		LTP					6	LTP	LTP						LTP	
21		LTP		1				LTP	MTO					-	LTP	
22		LTP	-			EXT		MTO		-	EXT			-	LTP	_
23		LTP		-		EXT			_		EXT		_	1	LTP	_
24		LTP	1	-		EXT	-	-		-	EXT			-	LTP	-
25		LTP				EXT					EXT				LTP	

RIGHT	U		0	0	0	V	U	U	U	V	V	V	0	0		(
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4		DTP													DTP	
5		LTP	DTP											DTP	LTP	
6		LTP	DTP											DTP	LTP	
7		LTP	DTP											DTP	LTP	
8		LTP	BTP											BTP	LTP	
9		LTP	BTP											BTP	LTP	
10			BTP	BTP									BTP	BTP		
11				DTP									BTP			
12				MRO	LTP							LTP	DTP			
13				MRO	LTP							LTP	DTP			
14			9	BTP	LTP							LTP	BTP			
15				BTP	LTP							DTP	BTP			
16				BTP	LTP			12				DTP	BTP			
17	ů				LTP	DTP					DTP	DTP				
18	. 3				LTP	LTP					DTP	LTP			i.	
19					LTP	LTP					DTP	LTP				
20						LTP	LTP			LTP	LTP					
21						LTP	LTP			LTP	LTP					
22						LTP	LTP	LTP	LTP	LTP	LTP					
23							LTP	LTP	LTP	LTP						
24							LTP	LTP	LTP	LTP						
25							LTP	LTP	LTP	LTP						

Upper



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	МТО	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation

Lower



Crowding, Extractions

Pre-Treatment

28 YO Male

Final













Number of aligners: U=25 L=25 Duration of treatment: 12 months Upper and lower 1st premolar extractions. *No attachments. No IPR. No revisions.*





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3						DTP				DTP	DTP						Γ
4						DTO	DTP			DTR	DTO						
5						DTP	DTP			DTP	DTP						Γ
6	_					DTP	DTR			DTO	DTR						
7						DTR	DTP			DTP	DTO						Γ
8						DTO	LTP		DTP	LTP	DTP						
9						DTP	LTR		DTP	LTR	DTP						L
10						DTR	LTP		DTR	LTP	DTO						Γ
11						DTP	LTO	MRO		LTP	DTP						Γ
12						DTO	LTP	MRO		LTO	DTP						Γ
13						DTP	LTP	MRO		LTP	DTO						Γ
14						DTP	LTR	MRO		LTR	DTP						Γ
15						DTP	LTP	MRO		LTO	DTR						Γ
16						DTO	LTP	MRO		LTP	DTO						
17						DTP	LTO	MRO		LTR	DTP						Γ
18						DTP	LTP	MRO		LTP	DTR						Γ
19						DTO	LTR	MRO		LTP	DTO						Γ
20				BTP			LTP	LTP	LTP	LTR			BTP				
21				BTR			LTP	LTR	LTP	LTP			BTR				Ĺ
22				BTP			LTO	LTP	LTR	LTO			BTP				Ĺ
23				BTR		1	LTP	LTP	LTO	LTP			BTR				
24			MRO				LTR	LTO	LTP	LTR				MRO			
25			MRO				LTO	LTP	LTR	LTO				MRO			Γ

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	6				- 3		DTO	DTP			DTP	DTP					
	7						DTP	DTR			DTO	DTR					
	8						DTP			DTP	DTP	DTP					
	9						DTR			DTP	DTR	DTP					
	10						DTO			DTO	DTP	DTO					
	11						DTP	DTP		DTP	DTP	DTP					
	12						DTP	DTR		DTP	DTO	DTR					
	13						DTR	DTP		DTO	DTP	DTP					
	14						DTO		LTP	DTP	DTR	DTR					
	15						DTP		LTP	DTP	DTR	DTO					
	16						DTP		LTR	DTP	DTO	DTP					
Ξ	17						DTR		LTO	DTO	DTP	DTR					
	18						DTO	DTP	LTP		DTR	DTP					
	19						DTP	DTP	LTP		DTP	DTO					
Ξ	20						DTR	LTP	LTR	LTP	LTP	DTP					
T	21						MRO	LTP	LTP	LTP	LTR	MRO					
Ī	22				MRO		MRO	INT	LTO	INT	LTP	MRO		MRO			
	23				MRO		MRO	INT	LTP	INT	LTO	MRO		MRO			
Ī	24			MRO				INT	LTP	INT	LTP			MRO	DRO		
	25			MRO				INT	LTO	INT	LTP			MRO	DRO		
_	26																



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	МТО	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation





Open Bite

Pre-Treatment

18 YO Female

Final













Number of aligners: U=23 L=17
Duration of treatment: 14 months
Elastic button technique (EBT) on
anterior teeth & expansion.

No attachments. No IPR. No revisions.





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6	_					DTP	DTR			DTO	DTR						Ι
7						DTR	DTP			DTP	DTO						Γ
8						DTO	LTP		DTP	LTP	DTP						Γ
9						DTP	LTR		DTP	LTR	DTP						Γ
10						DTR	LTP		DTR	LTP	DTO						Γ
11						DTP	LTO	MRO		LTP	DTP						Γ
12						DTO	LTP	MRO		LTO	DTP						Γ
13						DTP	LTP	MRO		LTP	DTO						Γ
14						DTP	LTR	MRO		LTR	DTP						Γ
15						DTP	LTP	MRO		LTO	DTR						Γ
16						DTO	LTP	MRO		LTP	DTO						Γ
17						DTP	LTO	MRO		LTR	DTP						Γ
18						DTP	LTP	MRO		LTP	DTR						Γ
19						DTO	LTR	MRO		LTP	DTO						
20				BTP			LTP	LTP	LTP	LTR			BTP				
21				BTR			LTP	LTR	LTP	LTP			BTR				Γ
22				BTP			LTO	LTP	LTR	LTO			BTP				Γ
23				BTR			LTP	LTP	LTO	LTP			BTR				Γ
24			MRO				LTR	LTO	LTP	LTR				MRO			Γ
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	7						DTP	DTR			DTO	DTR					
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	9						DTR			DTP	DTR	DTP					
	10						DTO			DTO	DTP	DTO					
	11						DTP	DTP		DTP	DTP	DTP					
	12						DTP	DTR		DTP	DTO	DTR					
	13						DTR	DTP		DTO	DTP	DTP					
	14						DTO		LTP	DTP	DTR	DTR					
	15						DTP		LTP	DTP	DTR	DTO					
	16						DTP		LTR	DTP	DTO	DTP					
	17						DTR		LTO	DTO	DTP	DTR					
	18						DTO	DTP	LTP		DTR	DTP					
	19						DTP	DTP	LTP		DTP	DTO					
	20						DTR	LTP	LTR	LTP	LTP	DTP					
	21						MRO	LTP	LTP	LTP	LTR	MRO					
	22				MRO		MRO	INT	LTO	INT	LTP	MRO		MRO			
	23			3 3	MRO		MRO	INT	LTP	INT	LTO	MRO		MRO			
	24			MRO				INT	LTP	INT	LTP			MRO	DRO		
	25			MRO				INT	LTO	INT	LTP			MRO	DRO		
	26																



Code	Movement Details	Code	Movement Details	Code	Movement Details
MTR	Mesial Translation	MTP	Mesial Tipping	DTO	Distal Torque
DTR	Distal Translation	DTP	Distal Tipping	МТО	Mesial Torque
LTR	Lingual Translation	ВТР	Buccal Tipping	INT	Intrusion
BTR	Buccal Translation	вто	Buccal Torque	EXT	Extrusion
LTP	Lingual Tipping	LTO	Lingual Torque	DRO	Distal Rotation



