## 7. APPENDICES

## 7.1. Appendix I. Supplementary table.

Date         28/2/12         28/2/12         21/2/13         21/2/14         21/2/18	Date	26/5/17	20/4	5/17	17/7/-	17 20	2/2/17	23/10/2	7 27	/11/17	19/4/18	21/	5/18	22/0	2/18	17/10/18	13/11/18	5/12/18
minint         minint<																		
Date         7/8/18         20/9/18         8/11/18         13/12/18         11/2/19         4/4/13           Sta Det         Jand Det         3ard Det         4in Det         Sth Det         6in Det           Trastment         Affer CHEMO         USSS         USSS         USSS         USSS           Patient J         3s3 Det         2/20 Det         3d Oet         41h Det         Sch Det           Jate         9/11/18         1/3/17         1/3/17/18         2/3/179         2/3/179           Patient J         JSSB         WT         WT         WT         WT         WT           Patient J         JSSB         USSB         USSB         USSB         2/3/19         2/3/19           Patient J         JSSB         USSB         11/17/19         9/11/18         2/3/19         2/3/19           Patient J         JSSB         USSB         USSB         USSB         USSB         USSB         USSB         USSB           Patient J         JS/118         JS/118         JS/118         ZS/119         ZS/319           Patient J         JS/118         JS/118         JS/118         ZS/319         ZS/319           Patient J         JS/117         JS/118	Patient 1																	
Patient Instance Section Patient Patie	Treatment	5	SURG	· · · · · · · · · · · · · · · · · · ·				G	EFITIN	IB (1st l	ine)				OSIMERTI	NIB (2nd line)		
Patient 2         LBSBR         WT         LBSBR-T790M         LBSBR-T790M         LBSBR-T790M           Treatment         ARE CHEM0         V	Date	7/8/18		20/9/	'18	8/11/18		13/12/18		11/2/19		4/4	/19					
Issse         USSR         USSR <t< th=""><th>Dations 2</th><th colspan="2" rowspan="2">1st Det</th><th>2nd D</th><th>Det</th><th colspan="2"></th><th colspan="2"></th><th>5th</th><th>Det</th><th>6th</th><th>Det</th><th></th><th></th><th></th><th></th><th></th></t<>	Dations 2	1st Det		2nd D	Det					5th	Det	6th	Det					
Date         9/11/17         15/1/18         17/10/18         22/1/19           Patient 3         Ibbet         22/01/18         22/1/19         28/1/19           Patient 3         ESSECTON         GEFTINB [Lst line)         VIT         WT           Date         22/07/18         21/07/18         38/10/18         58/10/18         9/11/18         24/179         28/3/19           Patient 4         335 Det         2/07/18         21/07/18         38/10/18         58/10/18         6/10/18         58/17900         1658/8-77900	Patient 2			L858	R					L858R+	T790M	L858R+	T790M					
Protection         Sin Det in Join Join Join Join Join Join Join Jo	Treatment								t line)									
Pattent 3         exon 13 del         WT         WT         WT         WT         WT           Treatment Bate         22/2718         22/6718         23/6718         38/7128         38/7128         24/719         28/3719           Patient 4         151 Det         2nd Det         38/10/15         13/871790M         18588+7790M         18588         18/678         18/719         18/7	Date	9/11/17	7	15/3/18		4/10/18				/3/19	1							
econ 19 del         evit         wit         wit         wit         wit         wit           Date         22/2/18         21//178         82//18         40/118         92/1/18         22/1/18         12/2/19           Patien 4         1358         2/2         12/	Patient 3	1st Det		2nc	d Det			4th Det 5		h Det	1							
Date         22/3/18         21/6/18         18/19/18         19/11/18         24/1/19         28/3/19           Patient 4         150 bct         2nd Det         3nd Det         4th Det         So Det         6th Det           Date         17/17         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/19         19/17/17         19/17/17         19/17/17         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/18         19/17/17         19/1	ratient 5			WT		WT		WT		WT								
Patient - 131 Det         3rd Det         with Det         6th Det         eth Det         6th Det           Treatment         18388         WT         LB3888-1790M         LB388-1790M         LB388-1790M         LB388-1790M           Date         1/12/17         13//4/18         11/2/19         5/5/19         LB388-1790M         LB380-1700H         LB380-1	Treatment	S. RESECTI	ON		GEFITIN			ne)										
Valuent 4     UBSR     UM     USSR+1720M     USSR+1720M     USSR+1720M     USSR+1720M     USSR+1720M       Treatment     5     151 Det     21/2/17     13/2/18     3/10 Cet     4/10 Det       3/10 Cet     2/10 Det     3/10 Det     3/10 Det     3/10 Det     4/10 Det       151 Det     2/10 Det     3/10 Det     4/10 Det     15/6/18     15/2/19       Date     19/10/17     4/12/17     1/3/18     19/4/18     15/6/18     15/2/19       Date     19/10/17     4/12/17     1/3/18     19/1/18     15/6/18     15/2/19       Date     19/10/17     4/12/17     1/3/18     19/1/18     15/6/18     15/2/19       Patient 6     105/17     1/3/18     19/4/18     105/18     25/10/18     31/19     4/4/19       Teatment     After CHEMO     CEFTINE Ustatime/     USSR     V/V     WT     WT     WT     WT     WT       Patient 8     115/6/17     1/3/18     19/2/18     32/11/18     32/11/18     32/11/18     32/11/18     32/11/18       Patient 8     115/6/17     1/3/17     1/3/17     2/3/18     7/6/18     7/6/18     2/7/18       Patient 9     115/6/17     2/3/11/8     32/11/8     32/218     5/5/18     4	Date			21/6/18										28,	/3/19			
GEFITNIB (1st line)         OBT 1/12/17       19/4/18       11/2/19       9/5/19         Patient 5       11.02 / 10 det       3/10	Patient 4																	
Date         1/12/17         19/4/18         11/2/19         9/5/19           Jis Det         2rd Det         3rd Det         4th Det           Teatment         GEFTTINB [1st line]         OSIMERTINB [2nd line]         OSIMERTINB [2nd line]           Date         19/10/17         4/12/17         1/3/18         19/4/18         15/6/18         15/2/19           Patient 6         152 Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Treatment         After CHEMO         GEFTTINB [1st line)         CARBO         CARBO           Date         10/5/17         1/3/18         10/5/18         52/10/18         31/1/19         4/4/19           Patient 7         eson 19 del         wr<         Wr         Wr         Wr         Wr         Wr           Treatment         After CHEMO         GEFTTINB [1st line)         CARBO         V/17         1/3/17         4/4/19           Patient 8         Wr         Wr         Wr         Wr         Wr         Wr           Treatment         GEFTTINB [1st line)         EAROTHINB [2st line)         EAROTHINB [2st line)         EAROTHINB [2st line)         EAROTHINB [2st line)           Date         12/10/17         1/3/17				WI	1	L858R+T790						L858R+T790M		L858R	+1790101			
Patients (ISSBR+T790M)         13x Det (ISSBR+T790M)         23x Det (ISSBR+T790M)         3x Det (ISSBR+T790M)         3x Det (ISSBR+T790M)           Date         04/01/1         41/1/1         11/2/1/5         11/2/1/5         11/2/1/5         11/2/1/5           Patient 6         1250 PC         20/01/2         41/1/2/1         11/2/1/5         11/2/								<b>.</b> .		FINIB (1:	st line)							
Jate ms         USSR 1	Date									-								
Treatment Patient 6         GEFITNINE (st. line)           Date         19/10/17         4/12/17         1/3/18         19/4/18         15/6/18         65/19           Patient 6         131 Det         2.00 Det         3rd Det         4.00 Patient         610 Det           Patient 7         1/3/18         19/4/18         15/6/18         15/2/19           Date         10/5/17         1/3/18         19/4/18         15/5/18         1258R           Date         10/5/17         1/3/18         19/4/18         10/5/18         21/10/18         13/1/19         4/19           Patient 7         1/3/18         19/4/18         10/5/18         21/11/18         23/10/19         4/19           Patient 8         23/10/17         21/12/17         5/7/18         22/11/18         28/2/19           Patient 8         23/10/17         21/12/17         5/7/18         22/11/18         28/2/19           Patient 9         23/10/17         21/12/17         1/12/17         7/13/18         1/12/17           Patient 10         19/6/17         4/9/17         13/12/17         7/13/18         1/12/15           Patient 10         1150et         2/10 Det         3/10 Det         11/12/15         11/12/15         1	Patient 5									м								
Date         19/10/17         4/12/17         1/3/18         19/4/18         15/6/18         15/2/19           Patient 6         135 Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           135 Det         136 Det         3rd Det         4th Det         5th Det         6th Det           7eatment         After CHEMO         GEFITTNIB (1st line)         CARBO           Date         10/5/17         1/3/18         10/7/18         25/10/18         31/1/19         4/4/19           estimation         2aid Det         3rd Det         4th Det         5th Det         6th Det         7th Det           0ate         23/10/17         21/12/17         5/17/18         22/11/18         28/2/19             Patient 8         WT         WT         WT         WT         WT         WT         WT           Treatment         Sto Det         2and Det         4th Det         5th Det         6th Det           9         WT         WT         UT         13/12/17         7/3/18         7/6/18           Patient 9         3tD Det         2and Det         3rd Det         4th Det         5th Det         6th Det           13	Treatment																	
Patient 6         1st Det         2 and Det         3 wt Det         4 wth Det         5 th Det         6 th Det           Treatment         A Refe CHEMO         Vert         Vert         CARBO           Date         10/5/17         1/3/18         19/4/18         10/5/18         25/10/18         31/1/19         4/4/19           Patient 7         0:0:19 del         Vert         WT         WT         Vert         Vert         Vert           Patient 7         1:10 Det         2/0 Det         3/12 Det         5/11/18         25/10/18         31/1/19         4/4/19           Patient 8         Vert         Vert         Vert         Vert         Vert         Vert         Vert         Vert           Patient 3         13 Det         2/1/1/18         8/2/17         7/3/18         7/6/18           Vert				-			-	-	-	15/0/10	15	/2/10	n n					
Patient b         L858R         WT         WT         L858R         L858R         L858R           Treatment         Affer CHEMO	Date												-					
Treatment         After CHEMO         GEFITINIB (1st line)         CARBO           Date         10/5/17         1/3/18         19/4/18         10/5/18         25/10/18         31/1/19         4/4/19           Patient 7         .st Det         3rd Det         4th Det         5th Det         6th Det         7th Det           Treatment         After CHEMO         ✓         WT         WT         WT         WT           Treatment         After CHEMO         ✓         57/18         22/11/18         28/2/19           Patient 8         .st Det         3rd Det         4th Det         5th Det         .st Det           Patient 8         .wT         WT         WT         WT         WT         WT           Patient 9         WT         WT         WT         WT         WT         WT         .st Det           Patient 10         19/6/17         4/9/17         13/12/17         7/3/18         7/6/18         .st Det         .st Det         .st Det           Patient 10         Ist Det         2nd Det         3rd Det         4th Det         .st De	Patient 6												1					
Date         10/5/17         1/3/18         19/4/18         10/5/18         25/10/18         31/1/19         4/4/19           Patient 7         ist Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det           Treatment         After CHEMO	Treatment		10										1					
Patient 7 exon 19 del         1st Det exon 19 del         2nd Det WT         3rd Det WT         4th Det WT         Sth Det WT         WT         WT         WT           Date         23/10/17         21/12/17         5/7/18         22/11/18         28/21/9           Patient 8         1st Det         2nd Det         3rd Det         4th Det         5th Det           WT         WT         WT         WT         WT         WT         WT           Treatment         GEFTINIE (Ists line)         ERUCTINIE (Ist line)         ERUCTINIE (Ist line)         ERUCTINIE (Ist line)           Date         28/11/16         19/6/17         4/9/17         13/12/17         7/3/18         7/6/18           Treatment         GEFTINIE (Ist line)         ERUCTINIE (Ist line)         exon 19 del         exon 19 del         exon 19 del           Treatment         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           1st Det         2nd Det         3rd Det         4th Det         5th Det         6th			_	1/3/1	8 1	19/4/18 10		. ,		)/18								
Patient / Treatment         Kets CHENO         WT         WT         WT         WT         WT         WT           Date         23/10/17         21/12/17         5/7/18         22/11/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/18         22/21/17         3/2 DEt         4/1 DET         Sh Det         5/7 DET </th <th></th> <th></th> <th></th> <th colspan="2"></th> <th></th> <th>-</th> <th></th>							-											
Date         23/10/17         21/12/17         5/71.8         22/11/18         28/21.9           Patient 8         Ist Det         3nd Det         4th Det         5th Det           WT         WT         WT         WT         WT         WT           Treatment         GEFITINE (Ist line)         ERUTINIE (2nd line)         ERUTINIE (2nd line)           Date         28/11/16         19/6/17         4/9/17         13/12/17         7/3/18         7/6/18           Patient 9         Ist Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Treatment         CEFITINE (Ist line)         ERUTINE (St line)         T/12/15         14/4/16           Date         22/7/14         4/9/14         29/4/15         20/11/15         17/12/15         14/4/16           Bate         22/7/14         4/9/14         29/4/15         20/11/15         14/4/16           Its Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Its SER         WT         UT         USSR+T790M         USSR+T790M         USSR+T790M           Date         11/12/15         7/3/16         11/4/16         1/12/16         26/1/17 <t< th=""><th>Patient 7</th><th colspan="2"></th><th colspan="2">WT</th><th colspan="2"></th><th colspan="2"></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Patient 7			WT														
Patient 8	Treatment	After CHEN	10	GEFITIN				NIB (1st lir	ne)									
vrit         writ         writ         writ         writ         writ           Treatment         GEFITNIB [List line)         ERLOTINIB [Load line)           Date         28/11/16         19/6/17         4/9/17         13/12/17         7/3/18         7/6/18           Patient 9         1st Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Patient 9         Writ         writ         29/21         20/11/15         17/12/15         14/4/16           Treatment         CEFITINIB (List line)         20/11/15         17/12/15         14/4/16           Batien 10         Ist Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Patient 10         Ist Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Ist Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Patient 10         Ist Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Reservor         Quadet         3rd Det         4th Det         Sth Det         6th Det           Batien 11/12/15         7/3/18         11/4/16	Date	23/10/17	2	1/12/17	7 5	5/7/18	22/	/11/18 2	8/2/19	Ð								
M         MT         MT         MT         MT         MT         MT           Treatment         GEFTINE         U         V         NT         NT         NT         NT         NT           Date         28/11/16         19/17         13/12/17         7/3/18         7/6/18         Gth Det           Patient 9         Ist Det         2nd Det         3rd Det         4H Det         Sth Det         6th Det           Treatment         CZ/7/14         4/9/14         29/1/15         17/12/15         14/4/16           Bate         22/7/14         4/9/14         29/11/15         17/12/15         14/4/16           Bate         22/7/14         4/9/14         29/175         20/17/15         14/4/16           Bate         22/7/14         4/9/14         29/175         20/17/15         14/4/16           Bate         22/7/14         4/10         12/27         3rd Det         4th Det         5th Det         6th Det           Bate         22/7/14         10/3/16         25/716         25/716         25/716         25/716           Patient 1         StRSECTON         CWT         Exon 19 del         exon 19 del         exon 19 del         exon 19 del         exon 19 del <th>Patient 8</th> <th></th> <th>2</th> <th></th> <th>3</th> <th></th> <th>_</th> <th></th> <th>th Det</th> <th>:</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Patient 8		2		3		_		th Det	:								
Date         28/11/16         19/6/17         4/9/17         13/12/17         7/3/18         7/6/18           Patient 9         1st Det         2nd Det         3rd Det         4th Det         Sth Det         6th Det           Treatment         VEFINIE (1st line)           Date         22/7/14         4/9/14         29/4/15         20/11/15         17/12/15         14/4/16           Bate         2/17         4/17         1/15         10/3/16         25/7/16         14/9/16           Bate         11/12/15         10/3/16         25/7/16         11/12/15         11/12/15         11/12/15         11/12/15         11/12/15         11/12/15         11/12/15         11/12/16         12/12/16         26/117           Patient 13         StBet         V         exts/regione         14/12/16         1/12/16         26/117         1/12/15         1/12/16			r WT							_								
Patient 9 WT         1st Det         2m U et WT         2m U et exon 19 del exon 19 del	Treatment						-											
variable	Date																	
GEFITINIB (1st line)           Date         22/7/14         4/9/14         29/4/15         20/11/15         17/12/15         14/4/16           Patient 10         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Patient 10         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Date         17/10/14         11/2/15         10/3/16         25/7/16           Date         17/10/14         11/2/15         10/3/16         25/7/16           Patient 11         WT         exon 19 del           Date         11/12/15         7/3/16         11/4/16         1/12/16         26/1/7           Patient 12         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           ItsS8R         WT         L858R         L858R+T790M         L858R+T790M         L858R+T790M           Patient 12         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           Treatment         S. RESECTION         GEFITINIB (1st line)         Oste         3rd Det <t< th=""><th>Patient 9</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	Patient 9																	
Date $22/7/4$ $4/9/4$ $29/4/15$ $20/11/15$ $17/12/15$ $14/4/16$ Patient 101st Det $2nd Det$ $3rd Det$ $4th Det$ $5th Det$ $6th Det$ TreatmentS.RESECTION $WT$ $UT$ $USSR+T790M$ $USSR+T790M$ $WT$ Date $17/10/14$ $11/2/15$ $10/3/16$ $25/716$ Patient 11 $1st Det$ $2nd Det$ $3rd Det$ $4th Det$ TreatmentS.RESECTION $VT$ $USSR+T790M$ $USSR+T790M$ Date $17/10/14$ $11/2/15$ $10/3/16$ $25/716$ Patient 12 $1st Det$ $2nd Det$ $3rd Det$ $4th Det$ $MT$ $VT$ $VT$ $USSR+T790M$ $USSR+T790M$ Date $11/12/15$ $10/3/16$ $25/716$ Patient 12 $11/2/15$ $2nd Det$ $4th Det$ $5th Det$ $6th Det$ $USSR+T790M$ $USSR+T790M$ $USSR+T790M$ $USSR+T790M$ $USSR+T790M$ Patient 12 $S.RESECTION$ $VT$ $USSR+T79M$ $USSR+T790M$ $USSR+T790M$ $USSR+T79M$ $USSR+T79M$ $USSR+T790M$ $USSR+T790M$ $USSR+T790M$ $USSR+T790M$ Patient 13 $S.RESECTION$ $VT$ $UT$ $UT$ $UT$ $UT$ $UT$ $UT$ $USSRUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSRUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSR+T79MUSSRUSSR+T79MUSSR+T79MUSSR+T79M$	Turaturant	VVI	v	•				exon	L9 UEI	22011 19 0								
Patient 10       1st Det       2nd Det       3rd Det       4th Det       5th Det       6th Det         L858R       WT       WT       L858R+T790M       L858R+T790M       WT         Treatment       S. RESECTION       I1/12/15       10/3/16       25/7/16         Patient 11       1st Det       2nd Det       3rd Det       4th Det         MT       exon 19 del       exon 19 del       exon 19 del       exon 19 del         Treatment       S. RESECTION       CEFITINIB (1st Line)       V       V         Treatment       S. RESECTION       CEFITINIB (1st Line)       V       V       V         Date       11/12/15       7/3/16       11/4/16       1/12/16       26/1/17         Patient 12       L858R       WT       L858R+T790M       L858R+T790M       L858R+T790M         L858R       WT       L858R       L858R+T790M       L858R+T790M       L858R+T790M         Patient 12       L858R       WT       L858R+T790M       L858R+T790M       L858R+T790M         L858R       WT       L858R+T790M       L858R+T790M       L858R+T790M       L858R+T790M         Ist Det       2nd Det       3rd Det       4th Det       Sth Det       6th Det			-					-					<u> </u>					
Patient 10       L858R       WT       WT       L858R+T90M       WT       WT         Treatment       S. RESECTION       Image: Section 10 and	Date				-													
Treatment         S. RESECTION         GEFITINIB (1st line)           Date         17/10/14         11/2/15         10/3/16         25/7/16           Patient 11         1st Det         2nd Det         3rd Det         4th Det           WT         exon 19 del           Treatment         S. RESECTION         GEFITINIB (1st line)         Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4">Colspan="4"Colspan="4"Colspan="4">Colspan="4"Colspan="4"Colspan="4"Colspan="4">Colspan="4"Colspan="	Patient 10																	
Date $17/10/14$ $11/2/15$ $10/3/16$ $25/7/16$ Patient 11 $115 \text{ Det}$ $2nd \text{ Det}$ $3rd \text{ Det}$ $4th \text{ Det}$ Treatment       S. RESECTION       SECTION       SEC	Treatment				<u>.</u>	<u> </u>	<u> </u>					<u> </u>						
Patient 11         1st Det         2nd Det         3rd Det         4th Det           WT         exon 19 del           Treatment         S. RESECTION         GEFITINIB (1st line)				11/2	2/15	10/	3/16		•									
Patient 11       WT       exon 19 del         Treatment       S. RESECTION $I1/2/15$ $I1/4/16$ $I1/1/16$ $I1/2/16$ $26/17$ Date $11/12/15$ $2/17$ $3/1$ Det $4/1$ $1/16$ $1/12/16$ $26/17$ Patient 12       Ist Det $2/17$ $3/1$ Det $4/1$ $1/16$ $1/2/16$ $26/17$ Patient 2       Ist Det $2/17$ $3/1$ Det $4/1$ $1/16$ $1/2/16$ $26/17$ Date $3/12/17$ $1/16/18$ $1/16/18$ $1/10/18$ $8/11/18$ $8/2/19$ Patient 3 $23/2/17$ $5/4/17$ $28/7/17$ $21/2/17$ $15/2/18$ $11/5/18$ $7/6/18$ $11/10/18$ $8/11/18$ $8/2/19$ Patient 3 $15/2/17$ $28/7/17$ $21/2/17$ $15/2/18$ $11/5/18$ $7/6/18$ $11/10/18$ $8/11/18$ $8/2/19$ Patient 3 $15/2/18$ $11/2/16$ $21/2/17$ $15/2/18$ $11/5/18$ $11/2/18$ $11/5/18$ $11/2/18$ $11/5/18$ $11/2/18$ $11/2/18$ $11/2/$																		
Date       11/12/15       7/3/16       11/4/16       14/11/16       12/16       26/1/7         Patient 12       1st Det       2nd Det       3rd Det       4th Det       5th Det       6th Det         Patient 12       1st StR       WT       1s58       WT       1s58       1s1/18       8/1/18       8/2/19         Patient 13       1st Det       2s/2/17       2s/2/17       2s/2/17       1s52       1s58       1s58 <th>Patient 11</th> <th>WT</th> <th></th> <th colspan="4"></th> <th>el exon 1</th> <th colspan="3">exon 19 del</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Patient 11	WT						el exon 1	exon 19 del									
Patient 12         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det           L858R         WT         L858R         L858R+T790M         L858R+T790M         L858R+T790M         L858R+T790M           Treatment         S. RESECTION         CESTINIE         CESTINIE         State         21/2/17         15/2/18         11/5/18         7/6/18         11/10/18         8/11/18         8/2/19           Patient 13         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det         8th Det         9th Det         10th Det         11th Det           Patient 13         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det         8th Det         9th Det         10th Det         11th Det           Patient 13         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det         8th Det         9th Det         10th Det         11th Det           1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         OSIMERTINIB (2nd line)           Patient 14         2nd Det         2nd Det         3rd Det         4th Det	Treatment	S. RESECTI	ON		G	EFITINI	B (1st	line)	ine)									
Patient 12       L858R       WT       L858R       L858R+T790M       L858R+T790M       L858R+T790M       L858R+T790M         Treatment       S. RESECTION       5/4/17       8/6/17       28/717       21/12/17       15/2/18       11/5/18       7/6/18       11/10/18       8/11/18       8/2/19         Patient 3       1st Det       2nd Det       3rd Det       4th Det       5th U       15/2/17       7/th Det       8th Det       9th Det       10th Det       11th Det         Patient 3       1st Det       2nd Det       3rd Det       4th Det       5th U       6th U       7th Det       8th Det       9th Det       10th Det       11th Det         Date       S. RESECTION       Essan       L858R       WT       L858R+T790M	Date	11/12/15		7/3/16		11/4/16		14/11/16		1	1/12/16		26/1/17					
Image: Instant for the state in the st	Patient 12					1								]				
Date         23/2/17         5/4/17         8/6/17         28/7/17         21/12/17         15/2/18         11/5/18         7/6/18         11/10/18         8/11/18         8/2/19           Patient 13         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det         8th Det         9th Det         10th Det         11th Det           BSSR         L858R         L858R         WT         L858R+T790M         L858R+T790M         L858R         <		L858R		WT		L858R						L858	R+T790N	1				
Patient 13         1st Det         2nd Det         3rd Det         4th Det         5th Det         6th Det         7th Det         8th Det         9th Det         10th Det         11th Det           1858R         1858R         1858R         1858R         WT         1858R+T790M         1858R+T790M         1858R+T790M         1858R+T790M         1858R         1858R <td< th=""><th>Treatment</th><th></th><th>_</th><th colspan="3"></th><th></th><th>-</th><th>-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th></td<>	Treatment		_					-	-							1		
Patient 13         L858R         L858R         L858R         WT         L858R+T790M         L858R+T790M         L858R         L858R <th>Date</th> <th></th> <th></th> <th colspan="2"></th> <th colspan="2">+</th> <th></th> <th></th> <th></th> <th></th> <th colspan="2"></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Date					+												
Treatment         S. RESECTION         ERLOTINIB (1st line)         OSIMERTINIB (2nd line)           Date         8/2/18         24/5/18         8/11/18         4/4/19           Patient 14         1st Det         2nd Det         3rd Det         4th Det           WT         WT         WT         WT         WT	Patient 13												-				-	
Date         8/2/18         24/5/18         8/11/18         4/4/19           Patient 14         1st Det         2nd Det         3rd Det         4th Det           WT         WT         WT         WT	Troatmont		201								1 L858R-	F1790IVI	LODOR-					
Patient 14         1st Det         2nd Det         3rd Det         4th Det           WT         WT         WT         WT			_	<u> </u>				-	.st mi	-1	_		<u> </u>		0311		inicj	-
Patient 14 WT WT WT WT																		
	Patient 14							4										
	Treatment					1												
			1	,														

## Supplementary Table 1. Monitoring of 18 patients with advanced NSCLC.

Date	1/7/14	31/7/14	31/7/14 20/10/16		29/5/17		31/7/17		2/1	0/17	/17 20/11/17		4/12/17 3/		.8	14/6/18	7/2/19	ר
Patient 15	1st Det	2nd Det	3rd	Det	4th Det		5th Det		6th	Det	7th Det		8th Det 9		h Det 10th D		11th Det	1
Patient 15	exon 19 del	WT	W	T I	exon 19 del·	FT790M exon 1		9 del+T790M	V	VT	WT		WT W			WT	exon 19 de	1
Treatment	ERLOTINIB (1st line)						OSIMERTINIB (2nd line)											
Date	16/2/17	30/3/	30/3/17 29		9/11/17 7/2/18		/18	9/5/18		19/7	9/7/18 8/		/18	11/10/	18 2	2/11/18	11/1/19	4/4/19
Patient 16	1st Det	2nd D	2nd Det 3		4th Det 5th D		Det	6th Det		7th	Det 8th		Det	9th D		.0th Det	11th Det	12th Det
Fatient 10	L858R	WT	WT W		WT	L858R+	T790M	L858R+T79	0M	L85	8R	L858R+T790N		WT		WT	WT	WT
Treatment	S. RESECTIO	N	ERLOTINIB (1st line) BEVACIZUMAB/OSIMERTINIB (2nd line)										l line)					
Date	1/4/15	3/12/15	5 23	/3/16	29/5/17	16/11/1	6 12/1	12/16 12/1	/17 2/3		3/17	14/5/17 1		/6/17				
Patient 17	1st Det	2nd Det	2nd Det 3rd		4th Det 5th		6th	Det 7th	Det	8th Det		9th D	Det 10th D					
	WT	WT T790N		790M	T790M	WT	v	VT W	WT		WT W			WT				
Treatment	ERLO	TINIB (1st line) OSIMERTINIB (2nd line)																
Date	24/4/15	20/1	/11/15 17/12		15 29/5/	17 17/7/17		30/10/17	20/1	1/17	29/12/17		8/2/1	8 1/	3/18	19/11/1	8 28/2/	'19
Patient 18	1st Det	2nc	2nd Det 3		et 4th D	et 5th	n Det	6th Det	7th	n Det 8		h Det	9th De	Det 10th D		11th De	t 12th	Det
ratient 10	exon 19 de	el V	WT		WT exc		19 del	19 del WT		/T exon 19		19 del 🛛 WT		,	WТ	WT	exon 1	Ə del
Treatment	S. RESECTIO	ON	TINIB (1	Lst line)	Ist line) OSIMERTINIB (2nd line)													