Northside Forsyth Gamma Knife Treatment Planning Protocol

> for Leksell Gamma Knife® Icon™ Leksell GammaPlan® 11.3.2

Patient: Coleman,Keri-Lyn

Patient ID: 03207055
Diagnosis: Metastases - multiple

Diagnosis Code: R1802

Plan ID: 20250219-001

Approval Version: 11.3.2

Approval Time: 2025-02-19 12:11:45
Print Date: 2025-02-19

Operator: /K

Gamma Knife: 6240 (6240)

Previously Delivered Dose

Previously delivered dose from the following plan(s) is available as imported dose for dose evaluation: 20220111-002, 20231119-001.

Dose already delivered in previous plans must be taken into account when prescribing dose.

Approved for Treatment

0757351 DOB: 11/06/1976 COLEMAN, KERILYN ZHANG,BINGCHAN 2504105249 H 02/14/25 **48Y** 70314

2504105249 H 02/14/25 0800

Gamma Knife Data

Calibration dose

2/19/25 12:08pn

3.36

Gamma Knife Data					
Calibration dose	3.364 Gy/min at 2020-10-22				
Days since calibration at approval date	1581				
Treatment dose rate (2025-02-19)	1.902 Gy/min				
Effective output factors (4, 8, 16)	0.814, 0.9, 1				
Ring 1 output factors (4, 8, 16)	0.812, 0.934, 0.961				
Ring 2 output factors (4, 8, 16)	0.823, 0.919, 1.000				
Ring 3 output factors (4, 8, 16)	0.795, 0.874, 0.981				
Ring 4 output factors (4, 8, 16)	0.726, 0.782, 0.914				
Ring 5 output factors (4, 8, 16)	0.664, 0.708, 0.847				

Fixation Configuration

Mask

Treatment Data										
Target	Shots	Prescription	100%	Max	Х	Υ	Z	Width		
			[Gy]	[Gy]	[mm]	[mm]	[mm]	[mm]		
B:L ant	1	20.0 Gy @ 74%	27.0	27.0	133.2	161.3	49.3	21		
frontal		Il								
2.12.25 PTV										

Treatment Data (Continued)									
Target	Shots	Prescription	100% [Gy]	Max [Gy]	X [mm]	Y [mm]	Z [mm]	Width [mm]	
A:R forntoparietal 2.12.25 PTV	1	20.0 Gy @ 50%	40.0	40.0	65.4	78.8	40.6	22	
C:L post temporal 2.12.25 PTV	1	20.0 Gy @ 60%	33.3	33.3	132.0	68.3	70.7	22	

Number of fractions: 1 Total number of shots: 3 Treatment plan name: Plan1 Dose algorithm: TMR 10

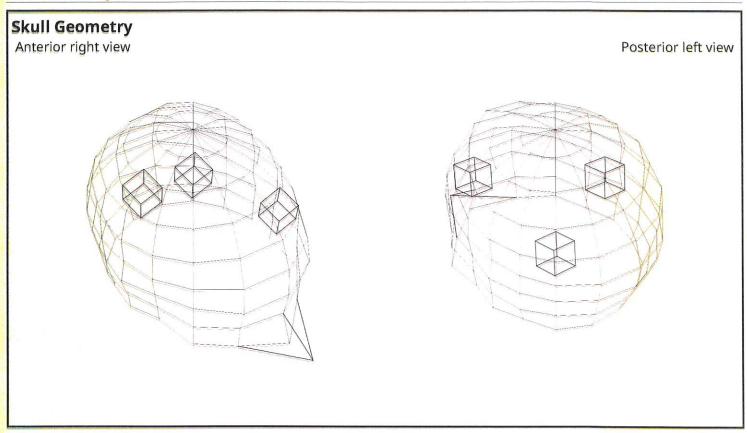
Dose grid resolution in targets: standard

Treatment Data Per Fraction								
Target	Shots	Prescription	100%	Max	Х	Υ	Z	Width
			[Gy]	[Gy]	[mm]	[mm]	[mm]	[mm]
B:L ant	1	20.0 Gy @ 74%	27.0	27.0	133.2	161.3	49.3	21
frontal		****						
2.12.25 PTV								
A:R	1	20.0 Gy @ 50%	40.0	40.0	65.4	78.8	40.6	22
forntoparietal		5007						
2.12.25 PTV								
C:L post	1	20.0 Gy @ 60%	33.3	33.3	132.0	68.3	70.7	22
temporal								
2.12.25 PTV								

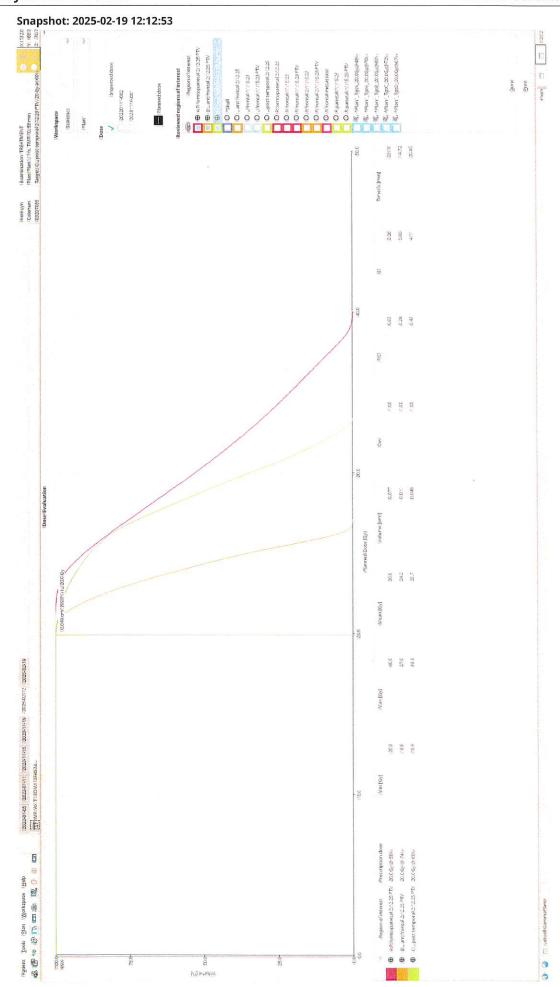
Total number of shots: 3 Treatment plan name: Plan1 Dose algorithm: TMR 10 Beam-on time: 58.4 min

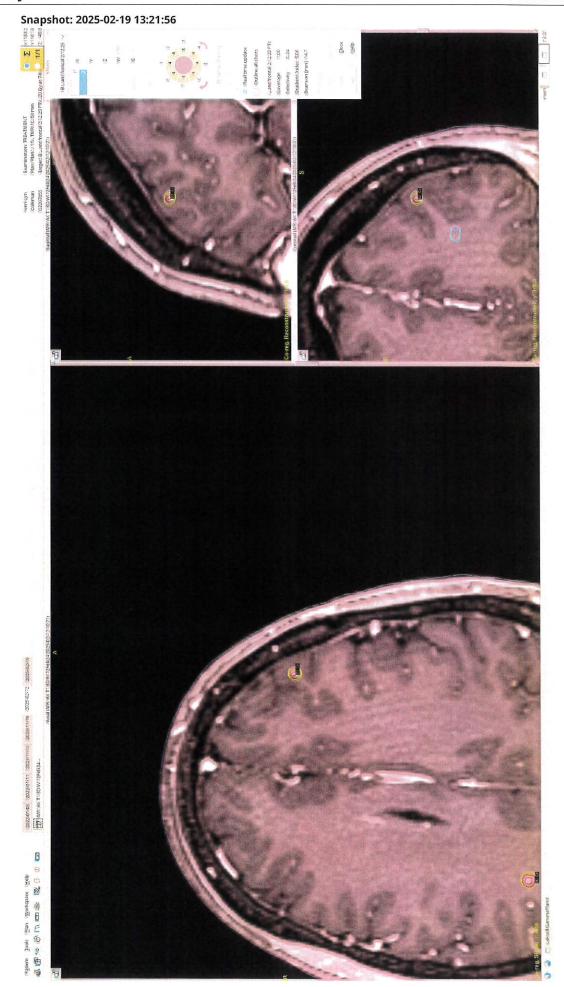
Dose grid resolution in targets: standard

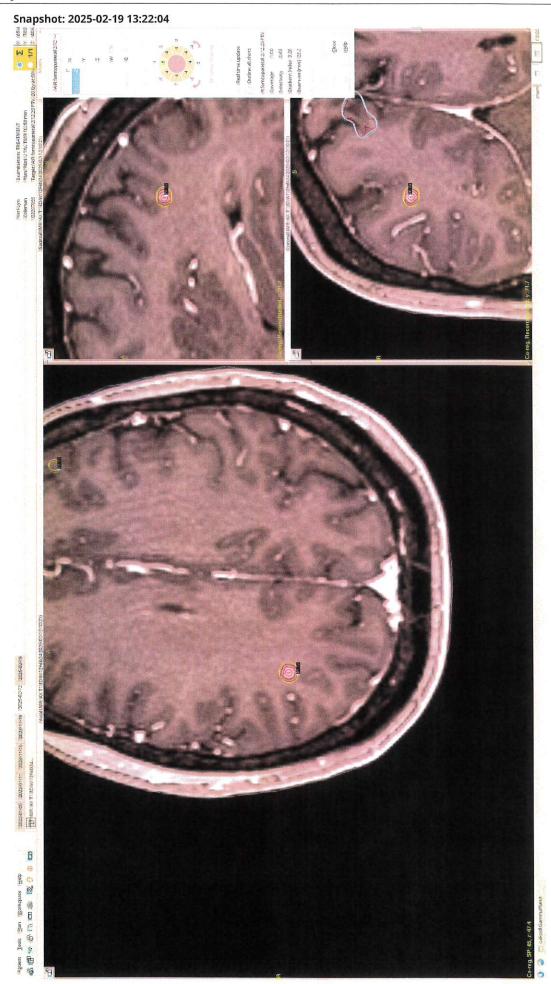
Run 1 (90 degrees)														
Run-Step	Shot	X [mm]	Y [mm]	Z [mm]		8			ato s 1-				Time [min]	Notes
1-1	B1	132.9	161.6	49.0	4	4	8	4	4	4	4	4	14.72	HANNA A
1-2	A1	65.6	78.9	40.6	8	4	4	4	4	4	4	4	23.19	
1-3	C1	131.9	68.2	70.8	4	4	8	4	4	4	8	4	20.45	

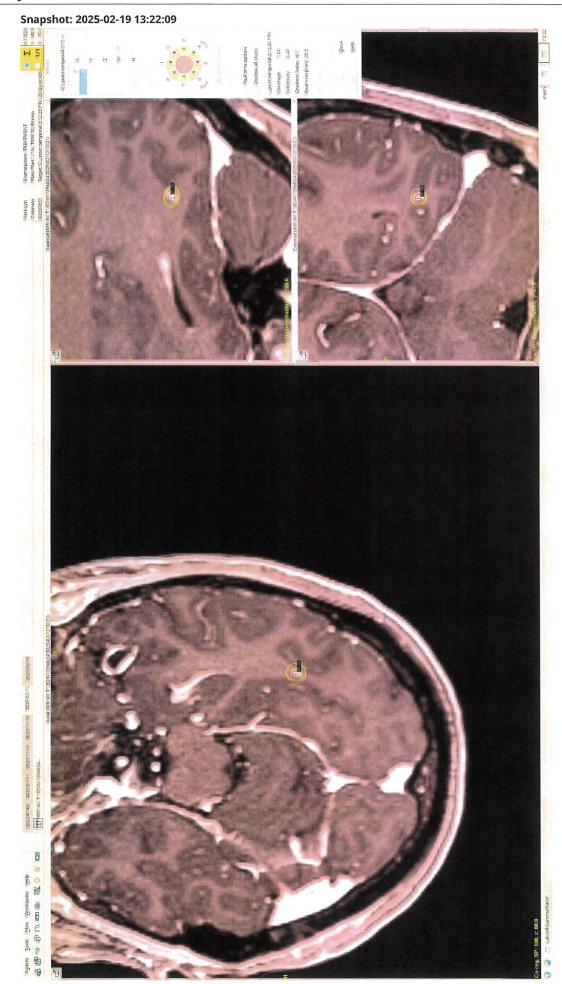


t Dose Data								
Shot	Weight	Dose Rate at focus [Gy/min]	Extrapolated Skull Radii					
B1	1.00	1.84	0					
A1	1.00	1.73	0					
C1	1.00	1.65	0					









Operator's report

Clinical CBCT request

Patient name:

Keri-Lyn Coleman

Patient ID:

03207055

Diagnosis:

Metastases - multiple, R1802

Scan date:

2025-02-19 [yyyy-mm-dd]

Operator:

SJ

LGK ID:

6240

CBCT scans

Time [hh:mm:ss]

CBCT setting

CTDI [mGy]

11:54:02

CTDI 6.3

6.3

CBCT settings

CBCT setting

CTDI [mGy]

Voltage [kV]

Current [mA] Pulse length [ms]

Number of projections

CTDI 6.3

6.3

90

25

40

332

User name:

op

Scan date:

2025-02-19 [yyyy-mm-dd]

Page: 1 of 1

Operator's report

Clinical treatment

Patient name:

Keri-Lyn Coleman

Patient ID:

03207055

Diagnosis:

Metastases - multiple, R1802

Plan ID:

20250219-001

Treatment date: Plan approval date: 2025-02-19 [yyyy-mm-dd] 2025-02-19 [yyyy-mm-dd]

Plan operator: Fraction max dose [Gy]: JK 40.0

Fraction: LGK ID:

1 (1) 6240

Overview

Treatment status:

Completed

Number of runs:

Start time:

2025-02-19 12:14:24

Number of shots:

3

End time:

2025-02-19 13:13:21

Comment:

Run index 1

Fixation Mask

Gamma 90

Number of shots

3

Treatment results

Run index: 1

Shot	X [mm]	Y [mm]	Z [mm]	Planned [min]	Elapsed [min]	Collimators	Clearance
B1	132.9	161.6	49.0	14.72	14.72	4,4,8,4,4,4,4	-
A1	65.6	78.9	40.6	23.19	23.19	8,4,4,4,4,4,4	-
C1	131.9	68.2	70.8	20.45	20.45	4,4,8,4,4,4,8,4	

CBCT scans

Time [hh:mm:ss] 12:09:02

CBCT setting **CTDI 2.5**

CTDI [mGy]

CBCT settings

CBCT setting

CTDI [mGy]

Voltage [kV]

Current [mA] Pulse length [ms]

Number of projections

CTDI 2.5

User name:

2.5

90

10

40

332

Plan ID:

20250219-001

Treatment date: 2025-02-19 [yyyy-mm-dd]

Patient position

Time	Correction	Completed	Rotatio	n degre	es]	Translation [mm]			
[hh:mm:ss]	applied	shots	х	Y	Z	Х	Y	Z	
12:12:15	Yes	B1 A1 C1	-0.03	0.04	0.21	-0.02	-0.02	0.30	

Events

Time [hh:mm:ss]	Туре
12:04:59	HDMM system: Active
12:04:59	HDMM alarm level: 1.5
12:12:37	HDMM reference set
12:14:24	Treatment started
13:13:21	Treatment completed

Operator's report

Clinical CBCT request

Patient name:

Keri-Lyn Coleman

Patient ID:

03207055

Diagnosis: Scan date:

Metastases - multiple, R1802 2025-02-19 [yyyy-mm-dd]

Operator:

SJ

LGK ID:

6240

CBCT scans

Time [hh:mm:ss]

CBCT setting

CTD1 [mGy]

11:54:02

CTDI 6.3

6.3

CBCT settings

CBCT setting

CTDI [mGy]

Voltage [kV] Current [mA] Pulse length [ms]

Number of projections

332

CTDI 6.3

6.3

90

25

40

2025-02-19 [yyyy-mm-dd]