

A time and motion study to evaluate the time involved with bevacizumab preparation and administration within a chemotherapy regimen

Preparation Summary

	Pharmacist time	Technician time	Total time	Pharmacist time	Technician time	Total time
N	3	3	3			
Mean	00:07:31	00:11:55	00:19:26	7.5	11.9	19.4
Median	00:08:09	00:11:21	00:19:22	8.2	11.4	19.4
Minimum	00:06:15	00:11:13	00:17:36	6.3	11.2	17.6
Maximum	00:08:09	00:13:10	00:21:19	8.2	13.2	21.3
SD	00:01:06	00:01:05	00:01:52	1.1	1.1	1.9

Infusion Summary

	RN5 time	Total time
N	3	3
Mean	00:15:23	00:15:23
Median	00:14:10	00:14:10
Minimum	00:13:56	00:13:56
Maximum	00:18:03	00:18:03
SD	00:02:19	00:02:19

	RN5 time	Total time
N	3	3
Mean	15.4	15.4
Median	14.2	14.2
Minimum	13.9	13.9
Maximum	18.1	18.1
SD	2.3	2.3

Centre /Patient ID	Staff type	Task	Time started (hh:mm:ss)	time stopped (hh:mm:ss)	Calculated - duration (hh:mm:ss)
1	Tech	Worksheet & labels	08:44:20	08:47:36	00:03:16
1	Pharmacist	Perscribing check	09:12:06	09:12:36	00:00:30
1	Pharmacist	Perscribing check	09:28:28	09:30:00	00:01:32
1	Pharmacist	Perscribing check	09:36:42	09:37:48	00:01:06
1	Pharmacist	Results check	09:38:12	09:42:52	00:04:40
1	Tech	Drug dilution	09:43:57	09:51:35	00:07:38
1	Tech	Drug check	09:49:19	09:51:35	00:02:16
1	Pharmacist	Final check & release	11:31:54	11:32:15	00:00:21
2	Tech	Worksheet & labels	10:49:05	10:51:40	00:02:35
2	Pharmacist	Prescribing check	10:46:48	10:47:12	00:00:24
2	Pharmacist	Prescribing check	10:54:02	10:57:40	00:03:38
2	Pharmacist	Results check	11:04:52	11:07:41	00:02:49
2	Tech	Drug dilution	11:06:52	11:15:07	00:08:15
2	Tech	Drug check	11:13:13	11:13:36	00:00:23
2	Pharmacist	Final check & release	11:32:11	11:33:29	00:01:18
3	Pharmacist	Prescribing check	10:31:11	10:32:02	00:00:51
3	Pharmacist	Prescribing check	10:30:15	10:30:44	00:00:29
3	Tech	Worksheet & labels	10:32:10	10:35:40	00:03:30
3	Pharmacist	Results check	10:34:09	10:37:34	00:03:25
3	Tech	Drug dilution	10:39:48	10:47:26	00:07:38
3	Tech	Drug check	10:45:52	10:46:05	00:00:13
3	Pharmacist	Final check & release	11:03:12	11:04:42	00:01:30

Pt No.	Pharmacist time	Tech time	Total time
1	00:08:09	00:13:10	00:21:19
2	00:08:09	00:11:13	00:19:22
3	00:06:15	00:11:21	00:17:36

Preparation Summary

	Pharmacist Time	Technician Time	Total Time
N	3	3	3
Mean	00:07:31	00:11:55	00:19:26
Median	00:08:09	00:11:21	00:19:22
Minimum	00:06:15	00:11:13	00:17:36
Maximum	00:08:09	00:13:10	00:21:19
SD	00:01:06	00:01:05	00:01:52

Centre /Patient ID	Staff type	Task	Time started (hh:mm:ss)	Time stopped (hh:mm:ss)	Calculated - duration (hh:mm:ss)
1	RN5	Check drug	12:34:20	12:35:04	00:00:44
1	RN5	Check drug	12:34:20	12:35:04	00:00:44
1	RN5	Prep of flush	12:35:04	12:36:06	00:01:02
1	RN5	Connect flush	12:36:28	12:36:51	00:00:23
1	RN5	Clean up	12:36:51	12:37:25	00:00:34
1	RN5	Check pt id	12:48:21	12:48:24	00:00:03
1	RN5	Connect drug	12:48:24	12:50:27	00:02:03
1	RN5	Clean up	12:51:12	12:52:47	00:01:35
1	RN5	Hand-wash	12:52:47	12:53:27	00:00:40
1	RN5	Documentation	12:53:23	12:53:57	00:00:34
1	RN5	Prep of flush	13:33:15	13:33:51	00:00:36
1	RN5	Connect flush	13:33:51	13:34:50	00:00:59
1	RN5	Clean up	13:34:50	13:35:22	00:00:32
1	RN5	Prep of dressing	13:49:16	13:49:40	00:00:24
1	RN5	Prep of dressing tray	13:57:26	13:58:24	00:00:58
1	RN5	Removal of IV access	14:01:58	14:02:22	00:00:24
1	RN5	Apply dressing	14:02:22	14:02:27	00:00:05
1	RN5	Clean up	14:02:47	14:04:23	00:01:36
2	RN5	Prep of flush	13:37:37	13:38:20	00:00:43
2	RN5	Connect flush	13:38:20	13:38:58	00:00:38
2	RN5	Clean up	13:38:50	13:39:19	00:00:29
2	RN5	Check drug	14:14:15	14:14:38	00:00:23
2	RN5	Check drug	14:14:15	14:14:38	00:00:23
2	RN5	Connect drug	14:15:27	14:16:21	00:00:54
2	RN5	Clean up	14:16:21	14:17:12	00:00:51
2	RN5	Documentation	14:17:12	14:17:31	00:00:19
2		Prep of flush	14:46:53	14:47:27	00:00:34
2		Connect flush	14:49:17	14:50:48	00:01:31
2		Clean up	14:50:48	14:52:01	00:01:13
2		Prep of dressing	15:01:02	15:01:59	00:00:57
2		Hand washing	15:01:59	15:03:09	00:01:10
2		Prep of dressing tray	15:03:57	15:05:31	00:01:34
2		Removal of IV access	15:05:31	15:06:12	00:00:41
2		Apply dressing	15:06:12	15:06:49	00:00:37
2		Clean up	15:06:49	15:08:02	00:01:13
3		Prep of flush	14:18:10	14:18:47	00:00:37
3		Connect flush	14:18:56	14:20:16	00:01:20
3		Clean up	14:20:16	14:21:09	00:00:53
3		Check drug	14:33:07	14:35:50	00:02:43
3		Check drug	14:33:07	14:35:50	00:02:43
3		Hand washing	14:35:50	14:35:57	00:00:07
3		Checking ID	14:36:42	14:36:49	00:00:07
3		Connect drug	14:36:39	14:38:35	00:01:56
3		Documentation	14:38:35	14:38:54	00:00:19
3		Clean up	14:38:54	14:40:08	00:01:14
3		Prep of flush	15:08:31	15:08:59	00:00:28
3		Connect flush	15:09:21	15:09:57	00:00:36
3		Clean up	15:09:57	15:10:04	00:00:07
3		Prep of dressing	15:17:00	15:17:30	00:00:30
3		Prep of dressing tray	15:21:15	15:23:05	00:01:50
3		Removal of IV access	15:25:07	15:25:53	00:00:46
3		Apply dressing	15:25:53	15:26:47	00:00:54
3		Clean up	15:26:47	15:27:40	00:00:53
3					
3					
3					

3
3
3

Pt No.	RN5 time	Total time
1	00:13:56	00:13:56
2	00:14:10	00:14:10
3	00:18:03	00:18:03

Preparation Summary

	RN5 time	Total time
N	3	3
Mean	00:15:23	00:15:23
Median	00:14:10	00:14:10
Minimum	00:13:56	00:13:56
Maximum	00:18:03	00:18:03
SD	00:02:19	00:02:19