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### Background

- The Sentinel Stroke National Audit Programme (SSNAP) is the national stroke care register in **England, Wales and Northern Ireland**.
- A suite of bespoke reports are routinely produced for clinical teams. These reports are produced every 4 months and include comprehensive full results portfolios, summary reports, slideshows and many more.
- As a supplement to these routine reports, SSNAP aimed to provide **'real-time' data** to prospectively guide, inform, and plan patient care. Data is more effective when it is provided more quickly.

Elapsed	Refresh	Scan (1H)	Scan (12H)	Stroke unit (4H)	Swallow (4H)	Consultant (24H)	Nurse (24H)	OT (72H)	PT (72H)	SALT Comms (72H)	SALT Swallow (72H)
0d 17:38	Actions	15m	15m		01:30						
20d 06:19	Actions	30m	30m	NA	03:41	04:41	03:26	NB	NB	NB	NB
13d 01:38	Actions	05:22	05:22		03:00	20:30		20:00	20:00	NB	1d 00:58
9d 00:24	Actions	01:56	01:56	NA	02:54	19:16	22:46	2d 00:55	1d 18:46	1d 00:35	1d 00:35
16d 08:53	Actions	13m	13m	02:53	02:45	1d 03:45	02:53	2d 03:45	2d 03:45	2d 04:45	2d 04:45
2d 02:17	Actions	02:10	02:10		NA	21:39		22:39	22:39	NB	22:39
23d 15:54	Actions	30m	30m	NA	NA	1d 10:46	19:31	1d 12:31	1d 10:16	NB	NB
12d 04:08	Actions	03:08	03:08		04:00	23:30		1d 00:30	1d 00:30	NB	NB
9d 00:05	Actions	02:29	02:29		NA	18:27		18:47	18:47	19:12	19:12
7d 22:23	Actions	2d 20:26	2d 20:26	NA	NA	1d 22:00		2d 23:15	2d 23:15		
2d 22:15	Actions	11m	11m		01:52	17:07		18:07	18:07		

The Online Indicators View

### Methods

- Selected hyper-acute (first 72 hours) aspects of care were chosen to display real-time feedback from October 2016.
- Teams are provided **with immediate, minute-by-minute feedback** on key indicators of care quality, including timings for brain scanning, stroke unit admission, and swallow screening.
- Boxes are colour-coded for every patient to show 'at-a-glance' whether an indicator has been achieved.

### Results

- Clinicians have described the online indicators as a **"massively useful tool for data validation"** and "real-time analysis".
- 10 real-time indicators are now available to assess performance for every record entered onto the registry (over 80,000 per year) for **1305 clinical users** at 151 routinely admitting teams.

Scan (1H)	Scan (12H)	Stroke unit (4H)	Swallow (4H)	Consultant (24H)	Nurse (24H)
14m	14m	NA	58m	NA	11m
01:42	01:42	07/08/13 18:33 - Patient had a brain image within 12 hours			
13:37	13:37	NA	01:23	2d 13:15	01:00
02:19	02:19	02:41	01:46	2d 01:16	51m

Hovering over an indicator provides further feedback

### Conclusion

- Clinicians are now able to view real-time data, useful as both a feedback and review mechanism, identifying trends in performance and quickly finding patients who have not achieved specific acute care processes.
- The tool can also be used as a basis for making action plans for **quality improvement projects**.
- This approach to driving quality improvement through real-time feedback on patient care processes could be adopted in other quality registers, with the aim of producing increasingly real-time data.