THE OTTAWA HOSPITAL RADIIOLOGIST ACTIVITY REPORTING METRIC FOR PRODUCTIVITY ASSESSMENT

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To describe the Ottawa RADiologist Activity Reporting Score (RADAR), a versatile single metric of Radiologist productivity.

To test two hypotheses:

**Hypothesis 1:** The implementation of RADAR increased overall radiologist productivity.

**Hypothesis 2:** Productivity change was not different between three groups of radiologists: higher productivity, middle productivity, and lower productivity groups.
MATRIALS AND METHODS:

- RADAR is a points system that quantitatively tracks clinical and non-clinical academic productivity.

- Some examples of included nonclinical activities include Resident Teaching Rounds, Multidisciplinary Rounds and protocolling.

- Radiologists receive weekly productivity reports.
This study was approved by the Institutional Research Ethics Board.

Data between January 1, 2013 and October 31, 2016 from approximately 58 radiologists at the University Of Ottawa Faculty Of Medicine, Department of Radiology was analyzed.

We analyzed the impact of RADAR on productivity over time and stratified results by 3 productivity groups (upper, middle and lower productivity). The 3 productivity groups were established based on their RADAR scores at the beginning of the study period.
RADAR INFRASTRUCTURE

**QGenda**
- Radiologist Scheduling
- Assigned Tasks by Day

**PowerScribe (PS)**
SQL Server Database

**Admit Discharge Transfer System**
- Protocol # by Radiologist/Date
- Weekly Extract

**Data Entry**
- Custom Data Files
- Locums
- Non-PowerScribe clinical work

**RADAR**
- Data Repository
- Setup Parameters
- Interface & ETL (Extract, Transform Load)
- Mapping Database
- Rules & Calculation Engine
- Reporting
- Custom Built Application

**RADAR Outputs**
- Individual Weekly RVU Report
- Management Report
- Ad-Hoc Reports
RESULTS
Average productivity increased after implementing RADAR

Walsh et al; Submitted to CARJ
Average clinical productivity increased after implementing RADAR.

Walsh et al; Submitted to CARJ
Average productivity increased in all productivity groups (i.e. the most and least productive), after implementing RADAR.
Average clinical productivity increased in all productivity groups (i.e., the most and least productive), after implementing RADAR.
Productivity increased over the study period.

The average RADAR score increased from a daily mean of 115 to 138 points, or an increased productivity of approximately 20%.

When the upper, middle and lower productivity groups were considered separately for total RADAR points, there were similar increases in productivity for all three groups. The upper, middle and lower groups increased by approximately 17%, 18% and 20% respectively.
RADAR provides a relatively comprehensive single metric for Radiologist productivity that can be adapted to individual departments.

Our study showed that this system resulted in increased Radiologist productivity.