Medical Imaging Confidence Index (MICI)

3rd Quarter 2013 outlook (July – September)

Created for AHRA

The Nation’s Leading Panel of Imaging Directors

Through dialog and collaboration, today’s top imaging administrators share their knowledge to shape the future of medical imaging technology and solutions.

Courtesy Of:

THE MARKETECH GROUP

ahra
the association for medical imaging management
MICI Index Overview

Why was MICI created?

- The MarkeTech Group and AHRA collaborated on the creation of MICI based on the belief that measuring the confidence of US medical imaging administrators on a regular basis would provide a valuable index for those having an interest in this industry.

- The MICI panel consists of a select group of imagePRO panel members from around the US representing different hospital sizes and geographic locations to capture a true “industry outlook”: how imaging administrators see the future of medical imaging in regard to revenues, costs, purchasing, and growth.

- This exciting initiative captures the “mood” of imaging administrators on a quarterly basis regarding the state of medical imaging in the US. It also provides a unique statistical index that is likely to attract a lot of attention from those following this industry.

What is imagePRO and why is it important?

- imagePRO was created by The MarkeTech Group to provide a professional community for imaging administrators to participate in studies aimed at advancing the development of medical imaging technology.

- The imagePRO panel is a true community of industry professionals and is the leading opt-in panel of this industry. Members are subjected to strict enrollment requirements to represent the voice of their peers and to be part of a group of professionals whose knowledge and input is important.
144 imaging directors/managers of hospitals completed the 2-minute Web survey regarding their perception of medical imaging trends for the third quarter of 2013.

Scores measure the level of confidence, and range between 0 to 200. The score interpretation follows:
- Below 50 is extremely low confidence
- 50 to 69 is very low confidence
- 70 to 89 is low confidence
- 90 to 110 reflect an ambivalent score (Neutral)
- 111 to 130 is high confidence
- 131 to 150 is very high confidence
- Anything above 150 is extremely high confidence

Hospital bed size
- Under 100 beds: 45%
- 100 - 299 beds: 36%
- 300 or more beds: 19%
Results are reflective of national trends because of the manner in which participants were invited to participate.

- Participants were recruited by region and number of beds to reflect known AHA incidence.

- Once the final counts were confirmed there was some statistical adjustment—weighting—to ensure the index reflects the US hospital imaging market. This type of adjustment is common when estimating overall market share, trends, and attitudes.

Recruitment accounts for about 90% of correct hospitals and regions to reflect the US hospital market.

- While relatively minor in magnitude, the weighting accounts for the final 10% to refine the estimates and ensure they represent the US hospital market.

- This refinement is necessary to create an index that truly represents how radiology departments view the economic outlook for the current quarter and will ensure that subsequent MICI results are valid.
Regions

- Pacific: 12%
- Mountain: 10%
- West South Central: 11%
- Mid-Atlantic: 9%
- South Atlantic: 17%
- West North Central: 11%
- East North Central: 18%
- East South Central: 12%
**Medical Imaging Confidence Index (MICI)**  
*July to September 2013 results*

**Third quarter 2013 results:**  
There is concern about receiving adequate reimbursement from Medicare.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Score Mean</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will grow monthly in diagnostic and interventional radiology</td>
<td>96</td>
<td>Neutral</td>
</tr>
<tr>
<td><strong>Receive adequate reimbursement from Medicare for diagnostic and interventional imaging</strong></td>
<td>63</td>
<td>Very low confidence</td>
</tr>
<tr>
<td>Internal operating and staff costs will remain constant</td>
<td>126</td>
<td>High confidence</td>
</tr>
<tr>
<td>Will have access to capital for imaging equipment and IT needs</td>
<td>87</td>
<td>Low confidence</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>117</td>
<td>High confidence</td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td>97</td>
<td>Neutral</td>
</tr>
</tbody>
</table>
Hospital bed size differences:
Hospitals with less than 100 beds have lower confidence in receiving adequate reimbursement from Medicare than hospitals with 300 or more beds. Hospitals with less than 100 beds have higher confidence in internal operating and staff costs will remain constant than hospitals with 300 or more beds.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Score Mean</th>
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<tbody>
<tr>
<td></td>
<td>Under 100 beds</td>
</tr>
<tr>
<td>Will grow monthly in diagnostic and interventional radiology</td>
<td>90</td>
</tr>
<tr>
<td><strong>Receive adequate reimbursement from Medicare for diagnostic and interventional imaging</strong></td>
<td>57</td>
</tr>
<tr>
<td>Internal operating and staff costs will remain constant</td>
<td>132</td>
</tr>
<tr>
<td>Will have access to capital for imaging equipment and IT needs</td>
<td>78</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>111</td>
</tr>
<tr>
<td><strong>Composite score across all areas</strong></td>
<td>92</td>
</tr>
</tbody>
</table>
Regional differences:
While none of the differences are statistically significant: Imaging directors in the East South Central region have very high confidence about growing as a profit center. West North Central, East South Central, and West South Central regions have very high confidence that internal operating and staff costs will remain constant. East North Central region have extremely low confidence about receiving adequate reimbursement from Medicare. Pacific region have very low confidence about having access to capital for imaging equipment and IT needs.

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<td>110</td>
</tr>
<tr>
<td>Will have access to capital for imaging equipment and IT needs</td>
<td>97</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>104</td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td>97</td>
</tr>
</tbody>
</table>
**Summary**

- Hospitals with less than 100 beds have lower confidence in receiving adequate reimbursement from Medicare than hospitals with 300 or more beds.

- Hospitals with less than 100 beds have higher confidence that internal operating and staff costs will remain constant than hospitals with 300 or more beds.

- Imaging directors in the East South Central region have very high confidence about growing as a profit center.

- West North Central, East South Central, and West South Central regions have very high confidence that internal operating and staff costs will remain constant.

- Receiving adequate reimbursement: While none of these apparent differences are significant, East North Central region have extremely low confidence; and the Mid-Atlantic, South Atlantic, East North Central, East South Central, and Pacific regions have very low confidence. All other regions have low confidence.

- Pacific region has very low confidence about having access to capital for imaging equipment and IT needs.
Results are now shown for Q3 2011 through Q3 2013

Comparisons are presented to show any trending of the data over a one year period.

Analyses are based on between group analysis of variance (ANOVA) where participant’s scores are compared over time to determine if changes occur.
No statistically significant differences in confidence for any of the MICI scores between the 2\textsuperscript{nd} quarter 2013 and 3\textsuperscript{rd} quarter 2013.

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<tr>
<td></td>
<td>Q2 2013</td>
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<tr>
<td>Will grow monthly in diagnostic and interventional radiology</td>
<td>97</td>
</tr>
<tr>
<td>Receive adequate reimbursement from Medicare for diagnostic and</td>
<td>64</td>
</tr>
<tr>
<td>interventional imaging</td>
<td></td>
</tr>
<tr>
<td>Internal operating and staff costs will remain constant</td>
<td>125</td>
</tr>
<tr>
<td>Will have access to capital for imaging equipment and IT needs</td>
<td>86</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>125</td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td>98</td>
</tr>
</tbody>
</table>
**Trending**
No significant changes in confidence from 3rd quarter 2011 compared to the 3rd quarter 2013.

- Will grow monthly in diagnostic and interventional radiology
- Receive adequate reimbursement from Medicare for diagnostic and interventional imaging
- Internal operating and staff costs will remain constant
- Will have access to capital for imaging equipment and IT needs
- Will maintain/grow as a profit center
- Composite score across all areas

Margin of error: ±8 percentage points
One year analysis review
Q3-2011 through Q3-2013

For details on MICI scores by bed size – please click on underlined links, or go to Appendix B.

Average MICI Scores

4th Q 2012 1st Q 2013 2nd Q 2013 3rd Q 2013
4th Q 2012 1st Q 2013 2nd Q 2013 3rd Q 2013
4th Q 2012 1st Q 2013 2nd Q 2013 3rd Q 2013
4th Q 2012 1st Q 2013 2nd Q 2013 3rd Q 2013
4th Q 2012 1st Q 2013 2nd Q 2013 3rd Q 2013

Under 100 beds
100 to 299 beds
300 or more beds

Margin of error: ±8 percentage points

Click here to see more information
Click here to see more information
Click here to see more information
Click here to see more information
Click here to see more information
Summary

MICI scores between 2\textsuperscript{nd} quarter 2013 and 3\textsuperscript{rd} quarter 2013 have not changed and are not statistically significant.

No statistical significant differences from 3\textsuperscript{rd} quarter 2011 compared to the 3\textsuperscript{rd} quarter 2013.
Medical Imaging Confidence Index (MICI)
July to September 2013
Study and report have been conducted and brought to you courtesy of:

THE MARKETECH GROUP

the association for medical imaging management
APPENDIX A - Questionnaire

**Grow monthly in diagnostic and interventional imaging**
Over the next three months, I am very optimistic that our department:

**S1Q1.** will grow monthly study volumes in Diagnostic imaging modalities (X-ray, Ultrasound, MRI, CT and NM).

**S1Q2.** will grow monthly study volumes in Interventional imaging modalities (biopsy, angio cath lab, etc.).

**Receive adequate reimbursement from Medicare for diagnostic and interventional imaging**
Over the next three months, I am very optimistic that our department:

**S1Q3.** will receive adequate reimbursement from Medicare for Diagnostic imaging studies.

**S1Q4.** will receive adequate reimbursement from Medicare for Interventional imaging procedures.

**Internal operating and staff costs will remain constant**
Over the next three months, I am very optimistic that the imaging department:

**S2Q1.** internal operating expenses (not including staff costs) will remain constant.

**S2Q2.** internal staff costs will remain constant.
APPENDIX A - Questionnaire

Will have access to capital for imaging equipment and IT needs
Over the next three months, I am very optimistic that our department:

S3Q1. will have access to capital/credit to fund investments in new imaging equipment and the costs associated with Imaging capital projects (e.g. siting & construction costs).

S3Q2. will have access to capital/credit to fund investments in areas outside of imaging equipment, such as PACS, RIS, or other imaging-related IT needs.

S3Q3. will have access to capital/credit to fund investment in imaging facility expansion, if desired.

Will grow as a profit center
Over the next three months, I am very optimistic that our department:

S4Q1. will continue to maintain/grow Diagnostic imaging services as a profit center.

S4Q2. will continue to maintain/grow Interventional imaging services as a profit center.
APPENDIX B

- Graphs are presented by number of beds to show MICI for all quarters and semesters.

- Interpretation is by number of beds—any changes across quarters are identified as being significant.

- If no changes are identified then differences that might appear are due to random fluctuation in responses over time and should not be considered real.
Appendix: July to September 2013 results

Under 100 beds: No changes in MICI between the 2nd quarter 2013 and the 3rd quarter 2013.

Back to Hospital bed size summary
### Appendix:
**July to September 2013 results**

+ **100 to 299 beds:** No changes in MICI between the 2nd quarter 2013 and the 3rd quarter 2013.

![Graph showing average MICI scores for hospital bed size 100 to 299 beds. The graph indicates stability in MICI scores between the 2nd and 3rd quarters of 2013.](image)

**Hospital bed size: 100 to 299 beds**

- **Increase in diagnostic and interventional radiology:** Will grow monthly in diagnostic and interventional radiology.
- **Reimbursement from Medicare:** Receive adequate reimbursement from Medicare for diagnostic and interventional imaging.
- **Operational costs:** Internal operating and staff costs will remain constant.
- **Access to capital:** Will have access to capital for imaging equipment and IT needs.
- **Profit center:** Will maintain/grow as a profit center.
- **Composite score:** Composite score across all areas.

**Back to Hospital bed size summary**

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*The MarketTech Group*  
_The Association for Medical Imaging Management_
Appendix: July to September 2013 results

300 or more beds: No changes in MICI between the 2nd quarter 2013 and the 3rd quarter 2013.
Appendix:
July to September 2013 results

Will grow monthly in diagnostic and interventional radiology: Hospital bed size

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Appendix:
July to September 2013 results

Back to Hospital bed size summary

Receive adequate reimbursement from Medicare for diagnostic and interventional imaging: Hospital bed size

- Under 100 beds
- 100 to 299 beds
- 300 or more beds
Appendix:
July to September 2013 results

Internal operating and staff costs will remain constant: Hospital bed size
Appendix: July to September 2013 results

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Appendix:
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Will maintain/grow as a profit center: Hospital bed size

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