MICI 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 U.S. 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 U.S. 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.
158 imaging directors/managers of hospitals completed the 2-minute Web survey regarding their perception of medical imaging trends for the second quarter of 2014.

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:

- 44% Under 100
- 37% 100-299
- 19% 300 or more
Index Methodology

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 U.S. 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 U.S. hospital market.

- While relatively minor in magnitude, the weighting accounts for the final 10% to refine the estimates and ensure they represent the U.S. 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.
Index Methodology

Regions

- Pacific: 10%
- Mountain: 8%
- West South Central: 8%
- East South Central: 8%
- Mid-Atlantic: 15%
- South Atlantic: 20%
- East North Central: 20%
- West North Central: 11%
There is high confidence in growing as a profit center and that staff costs will remain constant.

<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>101</td>
<td>Neutral</td>
</tr>
<tr>
<td><strong>Receive adequate reimbursement from Medicare for diagnostic and interventional imaging</strong></td>
<td>58</td>
<td><strong>Very low confidence</strong></td>
</tr>
<tr>
<td>Internal operating and staff costs will remain constant</td>
<td>122</td>
<td><strong>High confidence</strong></td>
</tr>
<tr>
<td>Will have access to capital for imaging equipment and IT needs</td>
<td>84</td>
<td>Low confidence</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>116</td>
<td><strong>High confidence</strong></td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td>95</td>
<td>Neutral</td>
</tr>
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There is concern about receiving adequate reimbursement from Medicare.
Hospital bed size differences:

Hospitals with **300 or more beds are more confident in growth of diagnostic and interventional radiology** than hospitals with under 300 beds.

<table>
<thead>
<tr>
<th>Topic</th>
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<th>Under 100 beds</th>
<th>100 to 299 beds</th>
<th>300 or more beds</th>
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<tbody>
<tr>
<td>Will grow monthly in diagnostic and interventional radiology</td>
<td></td>
<td>93</td>
<td>98</td>
<td><strong>127</strong></td>
</tr>
<tr>
<td>Receive adequate reimbursement from Medicare for diagnostic and interventional imaging</td>
<td></td>
<td>56</td>
<td>56</td>
<td>65</td>
</tr>
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<td>Internal operating and staff costs will remain constant</td>
<td></td>
<td>127</td>
<td>121</td>
<td>116</td>
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<td>Will have access to capital for imaging equipment and IT needs</td>
<td></td>
<td>78</td>
<td>83</td>
<td>101</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td></td>
<td>113</td>
<td>114</td>
<td>128</td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td></td>
<td><strong>92</strong></td>
<td><strong>93</strong></td>
<td><strong>107</strong></td>
</tr>
</tbody>
</table>
Regional differences: While none of the differences are statistically significant:

West North Central region has **very high confidence** that internal operating and staff costs will remain constant.

Pacific region has **very high confidence** in growing as a profit center.

East North Central and West South Central regions have **extremely low confidence** about receiving adequate reimbursement from Medicare.

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<td>96</td>
</tr>
<tr>
<td>Will maintain/grow as a profit center</td>
<td>123</td>
</tr>
<tr>
<td>Composite score across all areas</td>
<td>102</td>
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The Marketech Group

The Association for Medical Imaging Management
There is **high confidence** in growing as a profit center and that staff costs will remain constant.

There is **concern** about receiving adequate reimbursement from Medicare.

Hospitals with 300 or more beds are **more confident** in growth of diagnostic and interventional radiology than hospitals under 300 beds.

West North Central region has a **very high confidence** that internal operating and staff costs will remain constant. Pacific region has **very high confidence** in growing as a profit center.

Receiving adequate reimbursement: While none of these apparent differences are significant, East North Central and West South Central have **extremely low confidence**. The Mountain region has low confidence; while all other regions have very low confidence.
One year analysis review
S1-2012 through Q2-2014

Results are now shown for S1 2012 through Q2 2014.
- 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.
## One year analysis review
**S1-2012 through Q2-2014**

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Higher confidence in growth of diagnostic and interventional radiology in the 2nd quarter 2014.
One year analysis review
S1-2012 through Q2-2014

Average MICI Scores

TRENDING:
Growth of diagnostic and interventional radiology, access to capital for imaging equipment and IT needs, and growth as profit center have lower confidence in Q2 2014 compared to the 1st semester 2012.

Margin of error: ±8 percentage points
One year analysis review
S1-2012 through Q2-2014

Average MICI Scores

- Grow monthly
- Receive adequate reimbursement
- Costs remain constant
- Access to capital
- Maintain/grow as a profit center

Margin of error: ±8 percentage points

For details on MICI scores by bed size – please click on underlined links, or go to Appendix B.
One year analysis review
S1-2012 through Q2-2014

Summary

1. Higher confidence in growth of diagnostic and interventional radiology in the 2nd quarter 2014 compared to the 1st quarter 2014.

2. Under 100 beds: Growth of diagnostic and interventional radiology have higher confidence the Q2 2014 than Q1 2014.

3. 100 to 299 beds: Access to capital have higher confidence the Q2 2014 than Q1 2014.

4. Growth of diagnostic and interventional radiology, access to capital for imaging equipment and IT needs, and growth as profit center have lower confidence in Q2 2014 compared to the 1st semester 2012.
Study & report have been conducted & brought to you courtesy of:
Appendix: April to June 2014 results

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:
April to June 2014 results

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: April to June 2014 results

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: April to June 2014 results

Under 100 beds: Growth of diagnostic and interventional radiology have higher confidence the Q2 2014 than Q1 2014.
Appendix: April to June 2014 results

100 to 299 beds: Access to capital have higher confidence the Q2 2014 than Q1 2014.
Appendix: April to June 2014 results

### Hospital bed size: 300 or more beds

- **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**

#### Back to Hospital bed size summary

**300 or more beds: No changes in MICI between Q1 2014 and Q2 2014.**
Appendix: April to June 2014 results

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

Back to Hospital bed size summary
Appendix:
April to June 2014 results

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

- **Under 100 beds**
- **100 to 299 beds**
- **300 or more beds**

Back to Hospital bed size summary
Appendix: April to June 2014 results
Appendix: April to June 2014 results

Will have access to capital for imaging equipment and IT needs: Hospital bed size

Quarter/Semester

<table>
<thead>
<tr>
<th>Year</th>
<th>1st semester</th>
<th>3rd quarter</th>
<th>4th quarter</th>
<th>1st quarter</th>
<th>2nd quarter</th>
<th>3rd quarter</th>
<th>4th quarter</th>
<th>1st quarter</th>
<th>2nd quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>Under 100 beds</td>
<td>100 to 299 beds</td>
<td>300 or more beds</td>
<td>Under 100 beds</td>
<td>100 to 299 beds</td>
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Back to Hospital bed size summary
Appendix: April to June 2014 results

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

Quarter/Semester
Under 100 beds 100 to 299 beds 300 or more beds

Back to Hospital bed size summary