# ASTRO works to support members as they meet increasing quality reporting demands

Created in March 2007, the Medicare Physician Quality Reporting Initiative (PQRI) established a financial incentive for eligible health care professionals to participate in a voluntary quality reporting program. Physicians and other eligible health professionals who satisfactorily report on quality measures are eligible to receive a financial bonus as well as confidential feedback information. Implementing a quality reporting program that is both relevant and limits the disruption to physician-patient workflow for physicians has been an enormous challenge for the Medicare agency. Since PQRI's introduction to the Medicare program, ASTRO has worked closely with the Centers for Medicare and Medicaid Services (CMS) and other medical specialty societies to help improve PQRI.

Quality reporting and measurement are a growing part of the Medicare payment formula. Understanding that in today's health care environment payment and quality are inextricably linked, this past year ASTRO has worked hard to increase support to the membership in this important area. In February 2010, ASTRO expanded its PQRI online

resource center. For the first time, data collection sheets for radiation oncology PQRI measures were available for free download from the ASTRO website. In June 2010, ASTRO co-sponsored a call for members with CMS and the American Society of Clinical Oncology (ASCO) on the PQRI program. Call participants heard from Medicare agency staff as well as ASTRO and ASCO members who have successfully participated in PQRI. The specific PQRI oncology measures were also addressed on the call. Over 150 individuals participated in this free educational conference call. Finally, throughout the year ASTRO updated membership on changes and updates to the PQRI program.

Recent health reform legislation reflects a growing emphasis on measuring and incentivizing quality, and moving forward the PQRI program will surely continue to evolve. Quality reporting for physicians in Medicare is not going away. ASTRO understands that not only is it not going away but that it will expand and continue to get further integrated into the Medicare program. ASTRO is committed to supporting its membership by being a voice for radiation oncology in the arena of policy development for physician quality reporting and a resource to members as they try to implement this policy into their practice.

# Treasurer's Report

In May 2010, ASTRO's independent auditors, Squire, Lemkin + O'Brien L.L.P., conducted an audit of ASTRO's 2009 consolidated financial statements. The completed audit report includes consolidated statements of activities, financial position and cash flows for ASTRO and the Radiation Oncology Institute (ROI). Squire, Lemkin + O'Brien L.L.P., have expressed an unqualified "clean opinion" for these financial statements.

ASTRO's Finance/Audit Committee reviewed the report in detail with the auditors and submitted it to the Board of Directors, where it was approved in June 2010.

#### CONSOLIDATED STATEMENT OF ACTIVITIES

ASTRO and ROI had a combined \$3.5 million loss in 2008—the result of a \$5.7 million loss in investments and a \$2.2 gain in operations. By comparison in 2009, ASTRO and ROI had a combined \$6.6 million gain—the result of a combined \$5.8 million gain in investments and an \$800,000 gain in operations. Long-term investments performed well in both relative and absolute terms in 2009 participating fully in the equity market rally that began in March 2009.

The 2008/2009 economic environment affected ASTRO's Annual Meeting and other small meetings causing reductions in registration, exhibits and corporate support. However, ASTRO's virtual meetings more than doubled 2008 sales as members were forced to cut back on travel expenses but were still eager to participate in ASTRO's many learning opportunities.

Expenses were also trimmed in response to the economic climate as ASTRO staff and volunteers put forth significant effort to reduce 2009 and future years' expenses. A hiring freeze for new positions was instituted in 2009. Travel related expenses and outside professional services were also greatly reduced.

#### CONSOLIDATED FINANCIAL POSITION

As of December 31, 2009, ASTRO and ROI combined had \$34.4 million in assets and \$3.3 million in liabilities. Of the \$34.4 million in assets, the Board designated \$13.25 million for special projects, of which \$3.45 million has been spent through 2009 and \$9.8 million remains for future years. These projects include the ROI Vision of Value campaign, guideline developments, practice accreditation, a self-referral study and expanded learning initiatives. These should all benefit the future practice of radiation oncology and the cancer community in general. ASTRO is in a strong financial position to achieve its mission.

LAURIE E. GASPAR, M.D., M.B.A., FASTRO ASTRO Secretary/Treasurer



### Consolidated Balance Sheet

	DECEMBER 31	
	2009	2008
ASSETS		
CURRENT ASSETS:	ć1 527 250	¢402.002
Cash	\$1,527,359	\$492,002 3,406,381
Short-term Investments	3,658,474	3,400,361
Long-term Investments		6 002 720
U.S. Large Cap Stocks	8,375,359	6,882,738
U.S. Small Cap Stocks	2,170,941	1,048,644
International Stocks	5,520,878	3,852,103
Fixed Income	6,162,727	5,708,791
Alternative Investments	2,496,071	2,064,770
Accrued Interest Receivable	41,824	56,232
Accounts Receivable	956,262	881,653
Pledges Receivable, Net of Discounts	2,096,060	2,133,890
Prepaid Expenses	953,525	247,149
TOTAL CURRENT ASSETS	\$33,959,480	\$26,774,353
PROPERTY AND EQUIPMENT, NET	\$388,444	\$501,556
DEPOSITS	\$24,733	\$80,359
TOTAL ASSETS	\$34,372,657	\$27,356,268
LIABILITIES AND NET ASSETS		
CURRENT LIABILITIES:		
Accounts Payable	\$1,412,478	\$1,662,330
Accrued Expenses	535,935	544,564
Deferred Revenue/Expense	1,311,572	675,639
TOTAL LIABILITIES	\$3,259,985	\$2,882,533
·	4-7	. , ,
NET ASSETS:	*	
Unrestricted		
Undesignated	\$19,224,845	\$10,253,255
Board Deisgnated Programs	9,791,767	12,002,461
Total Unrestricted	29,016,612	22,255,716
Temporarily Restricted	2,096,060	2,218,019
Temporally nestricted	\$31,112,672	\$24,473,735
TOTAL LIABILITIES AND NET ASSETS	\$34,372,657	\$27,356,268

### Consolidated Profit and Loss Statement

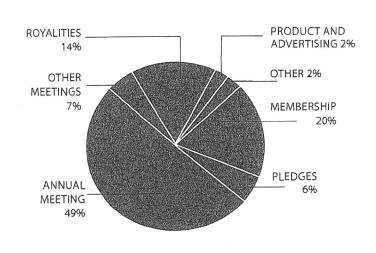
#### FOR YEARS ENDED DECEMBER 31

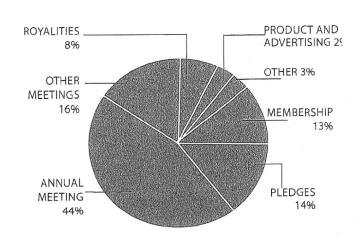
	FOR YEARS ENDED DECEMBER 3 I	
	2009	2008
REVENUE AND SUPPORT:		
MEMBERSHIP	\$2,934,915	\$2,410,448
MEETINGS		
Annual Meeting	\$7,244,156	\$7,915,262
Other Meetings	986,788	2,834,725
Total Meetings	\$8,230,944	\$10,749,987
OTHER		
Pledges	\$831,929	\$2,529,570
Journal Royalties	2,087,561	1,507,631
Products	91,988	219,096
Advertising	178,268	204,040
Other	327,259	434,728
Total Other	\$3,517,005	\$4,895,065
TOTAL REVENUE AND SUPPORT	\$14,682,864	\$18,055,500
EXPENSES:		
MEETINGS		
Annual Meeting	\$3,426,828	\$3,686,633
Other Meetings	991,582	2,475,956
Meetings and Education Support	390,790	406,266
Total Meetings	\$4,809,200	\$6,568,855
COMMITTEES	\$815,010	\$1,089,558
PROGRAMS		
Health Policy	\$981,407	\$1,195,651
Government Relations	845,898	774,260
Research and Awards	943,844	957,196
Public Awareness and Relations	410,459	359,247
Publications	258,684	327,416
Other Programs	537,614	405,286
Total Programs	\$3,977,906	\$4,019,056
SUPPORTING SERVICES		
General and Administrative	\$2,853,667	\$2,779,666
Membership	730,562	733,138
Board of Directors	673,183	643,441
	\$4,257,412	\$4,156,245
Total Supporting services	34,237,412	34,130,243
TOTAL EXPENSES	\$13,859,528	\$15,833,714
Profit/(Loss) From Operations	\$823,336	\$2,221,786
INVESTMENT INCOME/(LOSS)	\$5,815,601	\$(5,676,845)
INCREASE/(DECREASE) IN NET ASSETS	\$6,638,937	\$(3,455,059)

## Total revenue before investment income



#### 2008 Revenue

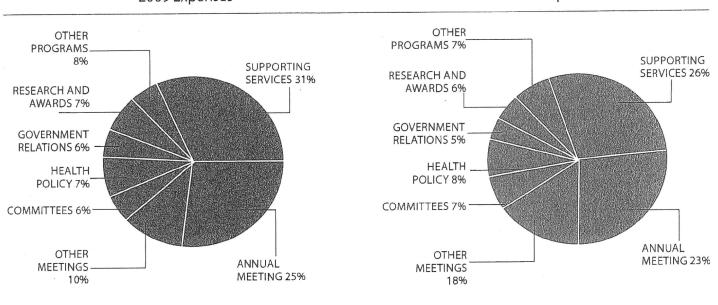




## Total expenses

#### 2009 Expenses

#### 2008 Expenses



#### RADIATION ONCOLOGY INSTITUTE

# Demonstrating safety and effectiveness of radiation therapy for the future of cancer treatment

Taking stock of ROI's Year in Review is one of seeing long- and well-planned building blocks begin to provide solid ground and traction for realizing ROI's mission and purpose:

"The Radiation Oncology Institute will enhance and promote the critical role of radiation therapy in the treatment of cancer by supporting research and education that demonstrates the life-saving and quality-oflife benefits of radiation therapy."

#### THE INSTITUTE'S PRIMARY OBJECTIVE IS TO:

"Conduct objective research to document the value, safety, efficacy and cost effectiveness of radiation therapy."

#### ROI'S PACE OF PROGRESS IS QUICKENING:

- Hired its first full-time director, dedicated completely to fulfilling the needs of the radiation oncology community. On April 1, Tracy Casteuble began her duties at ROI to carry out research projects to begin to achieve our goals.
- A collaborative project with RTOG that will compare outcomes of treatment for prostate cancer with either IMRT or 3D-CRT, providing hard data for best practices.
- Commencement of a significant study to assess and prioritize what ROI's national research agenda should be, according to interviews with many stakeholders.
- Start-up efforts to build a data dictionary and database registry of treatment and outcomes for cancer patients will help to make significant improvement in determining which treatments are associated with the best outcomes, allowing all involved parties the capability to use common data elements, to extract uniform EMR information of basic demographics on cancer patients.

This is an exciting time for the ROI as plans for research projects move into execution phase. The ROI Board approved the Development Master Plan prepared by the Development Committee, which calls for doubling the ROI endowment to \$16 million by 2014.

I would like to remind you that no other organization except our own will support efforts to gather and disseminate evidence that radiation therapy is a non-invasive, effective and safe therapy! I encourage each of you to stay abreast of ROI's activities and make a contribution to ROI's mission that is critical to the health of our patients and the future of our field.



Theodore S. Lawrence, M.D., FASTRO

Vice-president

President

Colleen Lawton, M.D., FASTRO





# Demonstrating safety through research

#### PIVOTAL ROI RESEARCH WILL SET AGENDA FOR FORESEEABLE FUTURE

A first-ever ROI study of the research gaps in radiation oncology, the ROI National Research Needs Assessment in Radiation Oncology, is in progress. After extensive review and vetting by the ROI Research Committee, co-chaired by Stephen Hahn, M.D., and Reshma Jagsi, M.D., D.Phil., ROI's Board of Trustees chose the Yale New Haven Health Center to conduct the study.

The Yale Center is gathering perspectives on key issues from radiation oncologists, biologists, physicists, referring physicians, patients, and payers. Issues and sub-topics identified will be prioritized by criteria, such as the magnitude of impact a topic may have, its prevalence and the degree of improvement that research in a given topic area could have. Laying this groundwork will be the cornerstone of ROI's research agenda to support radiation oncology for the next several years.

Using results from this assessment, ROI will be able to design and contract out future research based on the best recommendations of many experts in radiation oncology. Subsequent research will help fill gaps in the body of knowledge about radiation oncology. Results from the assessment should be available in late spring of 2011.

#### DATABASE REGISTRY FOR RADIATION ONCOLOGY

Two committees formed to lay the groundwork for creating a registry in radiation oncology that will collect standardized data about cancer treatments. A key component of the endeavor will be designing the infrastructure and data taxonomy of the database itself. The ROI Registry Task Force convened a meeting in St. Louis in March to discuss ideas for such a registry and created a proposal outlining ways to do it. The proposal was presented to the ROI Board of Trustees as well as to the ASTRO Board of Directors. The Boards agreed that ROI and ASTRO should collaborate on creating these two committees, the steering and data dictionary committees, and then proceed to explore developing the database and registry.

Data from such a registry for radiation oncology would answer one of the profession's priority needs:

 Assessing effectiveness of treatments by comparing data and analysis that demonstrate links between treatments with the best outcomes, safety, efficacy and cost-effectiveness. Radiation therapy provides life-saving and exceptional clinical benefits to cancer patients, but very little aggregated clinical data exists to demonstrate these benefits. The creation of standardized data elements, taxonomy and infrastructure would be a tremendous contribution to the field since data from electronic medical records could be extracted in a consistent, comprehensive way. Pending funding for the initiative, a pilot demonstrating use of the taxonomy through data extraction and aggregation would mean a big step toward widespread adoption.

COLLABORATIVE PROJECT WITH RTOG TO STUDY TREATMENTS FOR PROSTATE CANCER

This project with RTOG to analyze a multi-institution database over a six-year time period will fill a significant gap in the research on effective treatments for prostate cancer. It will include three aims:

Specific Aim 1: To analyze whether IMRT has lower grades or greater toxicity for GI, GU or other normal tissue compared to 3D-CRT treatment of men with prostate cancer. The typically higher dosage in IMRT to a more targeted site will be an important element in the analysis.

Specific Aim 2: To analyze whether IMRT treatment results in higher quality of life (as measured by erectile, bowel and bladder function, and general quality of life) at specific post-treatment intervals as compared to high dose 3D-CRT.

**Specific Aim 3:** To assess correlations among CTC toxicity criteria, patient reported outcome (absolute scores and changes in scores) and treatment plan dosimetry.

Results of this important research for treating prostate cancer will be presented at several scientific meetings in 2011.

A first-ever ROI study of the research gaps in radiation oncology, the ROI National Research Needs Assessment in Radiation Oncology, is in progress . . . Using results from this assessment, ROI will be able to design and contract out future research based on the best recommendations of many experts in radiation oncology.

# ROI Founder's Circle

With grateful appreciation we acknowledge the generosity of our distinguished investors.

INVESTORS - \$2,000,000+ American Society for Radiation Oncology (ASTRO)

Varian Medical Systems

VISIONARY - \$1,000,000+

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As of September 30, 2010



**ASTRO** mission

ASTRO is dedicated to improving patient care through education, clinical practice, advancement of science and advocacy.



www.astro.org www.rtanswers.org

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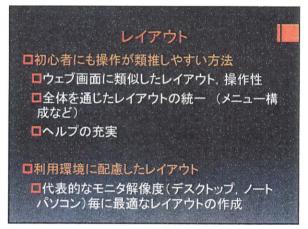
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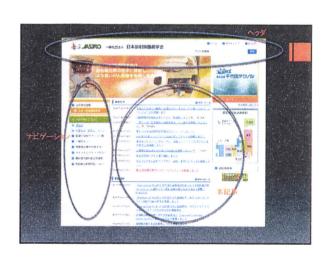
総論 DB(含基本 DB, ROGAD)

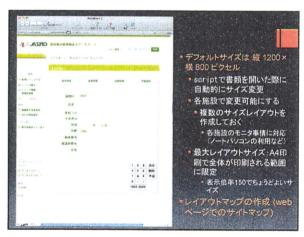


# ROGAD 基本データベース コンセプト ・実臨床に即した入力内容 ・入力補助を駆使し、入力者の負担を減ら すシステム ・さまざまな診療補助ツールにより、利用を 促進する

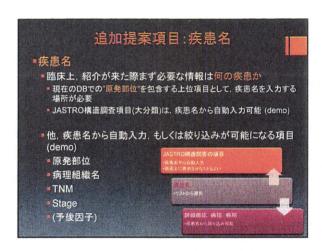


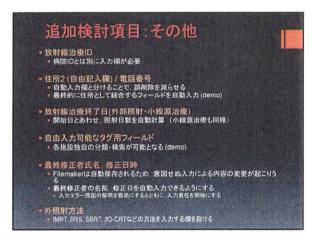


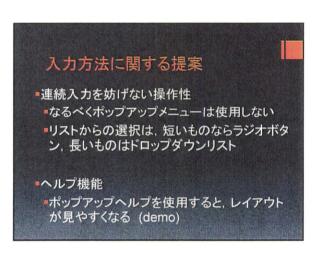




### 入力項目に対する提案 「項目の追加 「疾患名 「放射線治療ID 「住所2(自由記入欄)/電話番号 「放射線治療終了日(外照射・小線源 治療) 「最終修正者氏名,修正日時 「自由入力可能なタグ用フィールド



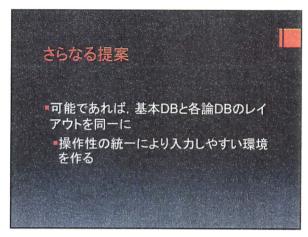


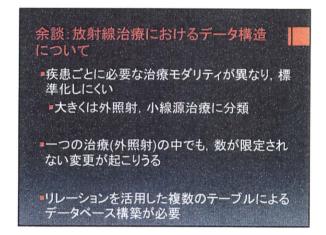


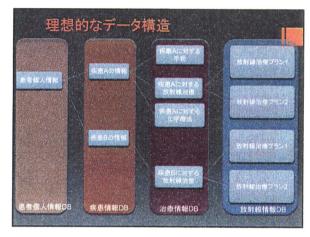
# 使用促進のための提案 ■JASTRO構造調査 E項目の集計が可能となるようにする (demo) ■ 施設のニーズにあわせ、年別集計、年度別集計が可能となるようにする ■ほかの調査項目も入力するデータベース (テーブル)を内蔵する ■将来的には、DBからテキスト形式で書き出し、そのテキストを構造調査web上にアップロードすることで登録が可能となるようにすれば利便性が高まる

# 使用促進のための提案 - 臨床に役立つツールにする - サマリ作成機能、返書(診療情報)作成機能 - 各施設の要求にどの程度対応できるか - 利用施設に欲しい機能のアンケートをとる - 将来的に、ベンダーの提供するRISから必要な情報を書き出し、それを取り込む機能があればさらなる利用につながるのでは? - ベンダーの協力が必要 - 書き出しフォーマットの共通化 - 逆に、ROGADデータベースを入力用フロントエンドとして、データを取り込む機能をRISに搭載してもらう

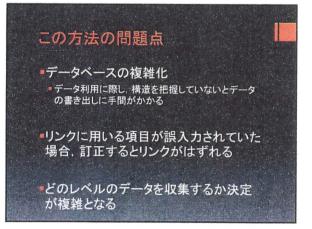


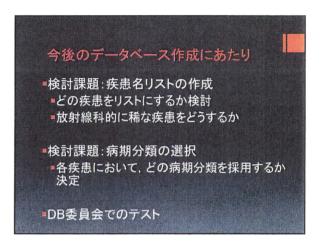












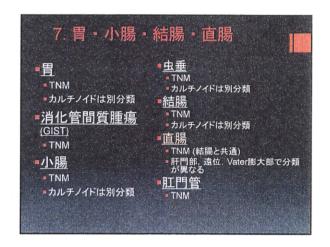






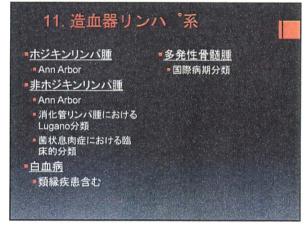


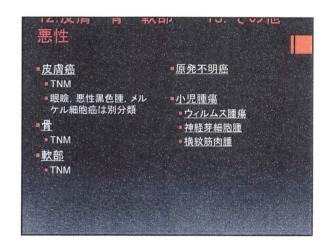


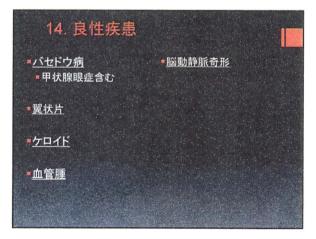












#### 総論DB 基本DB, ROGADとの連携・移行

大阪大学大学院医学系研究科 沼崎 穂高

#### 総論DBと基本DBの連携

- □篠田先生提供DB(総論DB)への完全移行
  - ▶基本DB項目は網羅
- □主な変更点
  - レイアウト
  - > 原発部位の上位に疾患名の項目を追加
  - ▶自由記入欄の追加
  - > JASTRO構造調査へのデータ提出機能の追加
  - > ヘルプ機能の強化

#### DB移行に伴う改訂作業(基本DB)

- □過去の基本DBデータのインポート
  - ▶ 総論DB項目との整合性の確保
  - ▶ インポート時の疾患名自動入力
    - ✓ 過去verには疾患名の項目がない
    - ✓ 原発部位から判別して疾患名を自動入力
- □各自でカスタマイズしている施設への対応
  - ▶ 総論DB項目との対応表の作成, 公表
  - ▶ DB移行の支援(施設への出張含む)

#### 総論DBと各論DBの連携

- □各論DBの在り方
  - ▶ データ項目数

基本DB < 総論DB < 各論DB(5疾患に限る)

- ➤総論DB項目と各論DB項目の整合性
- ▶5疾患以外:総論DBの項目数を減らす必要なし
- □改訂案
  - ▶ 現行の各論DBを残す or 残さない

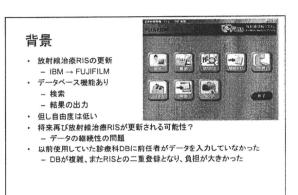
#### DB移行に伴う改訂作業(各論DB)

- □現行の各論DBを残す
  - ▶5疾患: 現行の各論DBを利用
  - ▶5疾患以外:総論DBのデータ項目を利用
  - ▶疾患名入力→基本DB部分以外の表示/非表示
- □現行の各論DBを残さない
  - ▶ 総論DB = 基本 + 各論DBのデータ項目
  - ▶疾患名入力→各論DB部分の表示/非表示
  - ▶ 過去verのデータのインポート機能の開発

#### まとめ

- □改訂の方向性
  - ▶基本DB+各論DB⇒総論DB+各論DB
  - ▶基本DB+各論DB⇒総論DB
    - ► 各論データ項目を総論DBに装填
    - 各論部分はSpecial Studyとして定期的に収集
- ロメリット・デメリット
  - > 操作性の向上
  - ▶ JASTRO構造調査へのデータ提供
  - ▶ カスタマイズして利用している施設への対応





#### 目的

- ・ ROGAD baseの診療科DBとの連携
  - Filemakerで作成され、自由度が高い
  - 一定の条件でカスタマイズ可能
  - DB構造が比較的簡単
  - 連携しやすい

- JNCDBデータ登録?



#### 方法

- · RISでデータ登録
  - 必須項目を入れないと、治療計画用CTのオーダーも出来ない
  - 入力項目はJASTRO構造調査を意識して作成されている
- ID検索をして該当データをcsvファイルで書き出し
- ・ファイルメーカーのインポート機能を利用して、データを診療 科DBに取込
  - ROGAD baseのDBの項目と、RISの項目とで、異なる部分あり
  - 変換するためのスクリプトを作成
  - RISにない項目は追加入力

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