

Empowering Greater Insights



Overview of Market Research Services

January 2012

BioTrak Fact Sheet



- Founded in 1999 to provide commercial support and new product planning consulting services to the pharmaceutical and medical device industry
- Team of 10 including researchers, pharmacists, regulatory, biostatistics experts, and support staff based in Carlsbad, California
- Leadership from the pharmaceutical industry
- Conducted over 300 total research studies and over 100 web-based questionnaire survey studies with patients, health care providers, and pharmacists
- Innovator in the use of probabilistic modeling technique for forecast and market share predictions
- Recent launch its own online ailment panel, GoHealthPanel.com, to support subject recruitment and research fielding.



Core Consulting Services:

- **Market Research :**
 - » Quantitative Research:
 - Awareness, Trial and Usage (ATU/AUU) Rx tracking studies
 - KAB (Knowledge, Attitude, and Behavior) surveys
 - Forecast prediction models using probabilistic modeling techniques (e.g., Monte Carlo analysis)
 - Conjoint analysis and simulator models
 - Product concept testing
 - Readability and comprehension testing for consumer and healthcare professional medical information
 - » Survey design, web programming, and hosting
 - » Subject recruitment
- **REMS assessments**

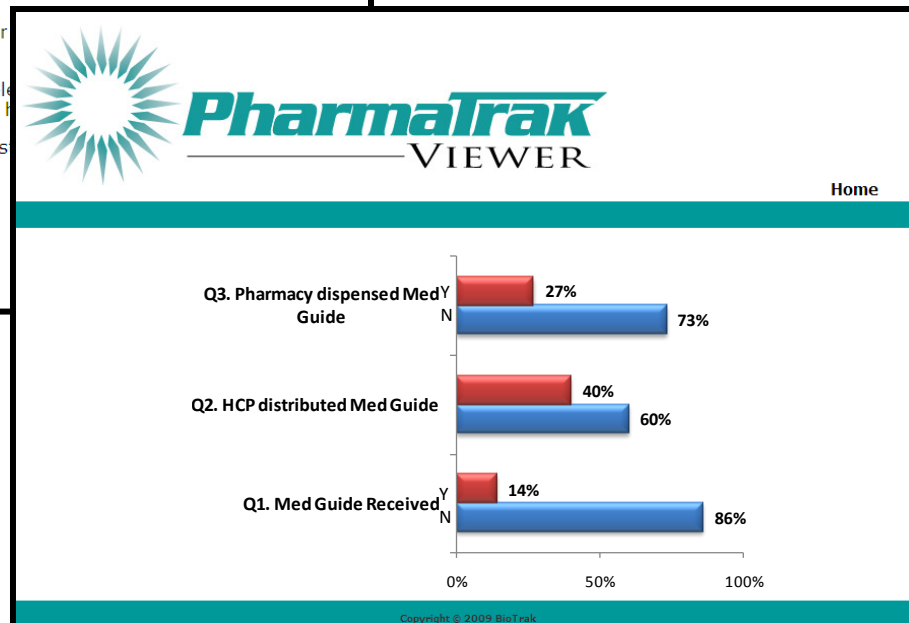
BioTrak Operates a Secure Survey Portal with Real-Time Data Reporting



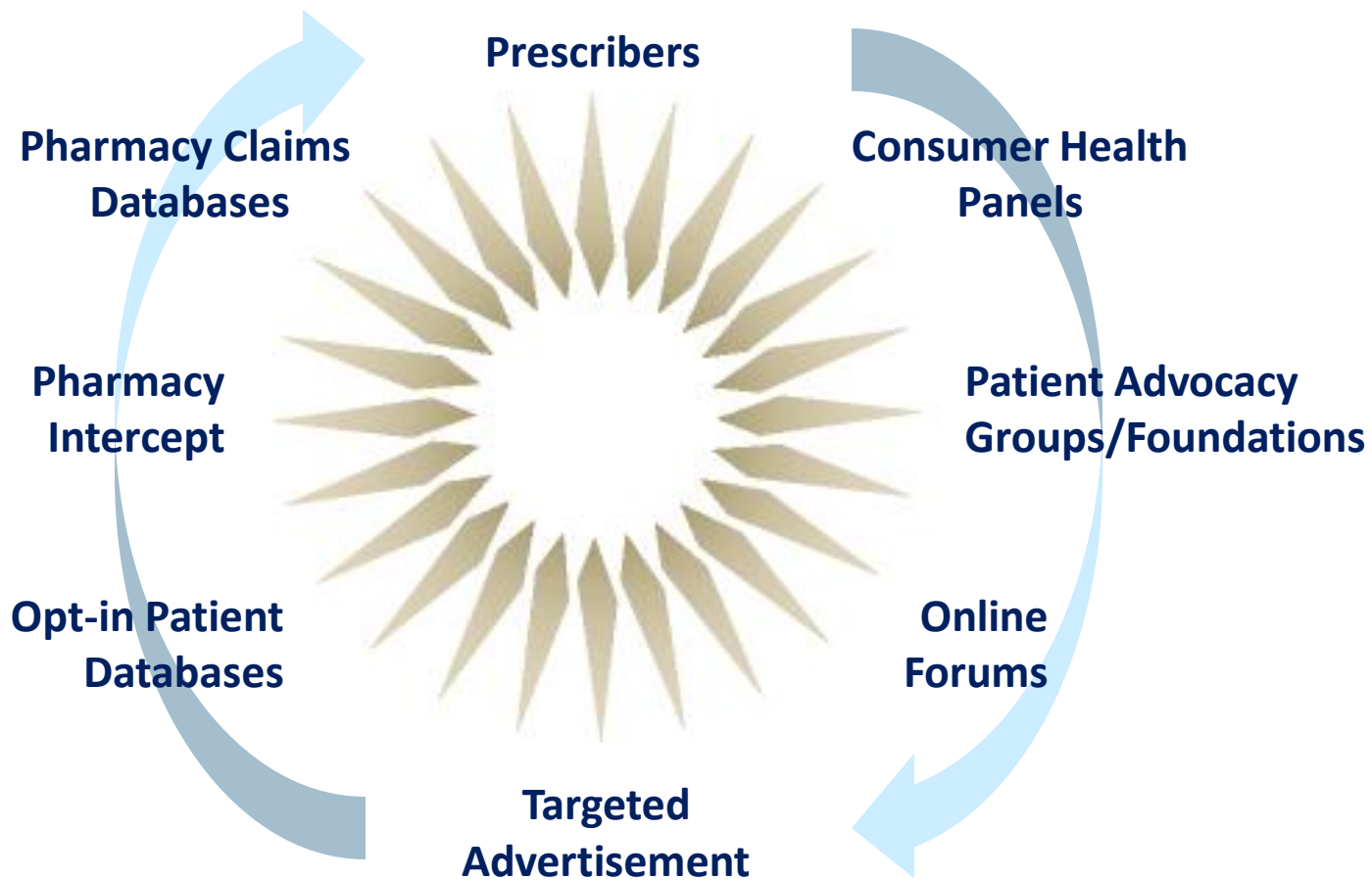
Centralized assessment portal for easy stakeholder and client access

Unique client specific dashboard for real-time assessment reporting

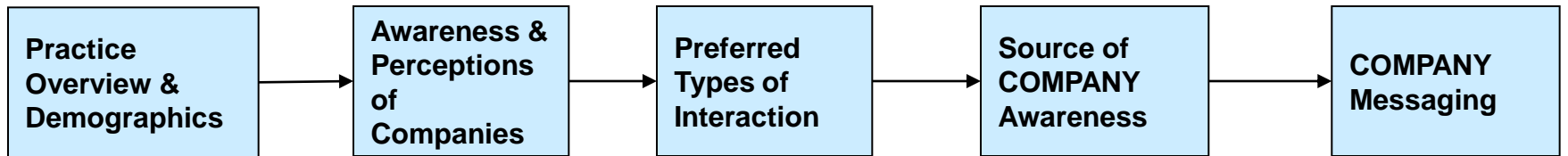
Proprietary web coding and database system verifies survey code authorization, and directs to appropriate survey



Multimodal Recruitment Capabilities



Methodology: ATU Studies



- Practice setting
- Number of target patients seen in a typical month by tumor type

- Unaided awareness of oncology companies
- Aided awareness / familiarity with oncology companies
- Perception of COMPANY and competitors on various attributes (e.g., overall corporate image, commitment to oncology, scientific expertise, pipeline strength, quality of company personnel, future company prospects)
- How do companies demonstrate commitment to oncology?

- Frequency of use for various communication channels (e.g., conferences, journals, sales reps, MSLs, websites, etc.)
- Preference for each communication channel and optimal frequency
- Preference for interaction with manufacturer personnel and optimal frequency

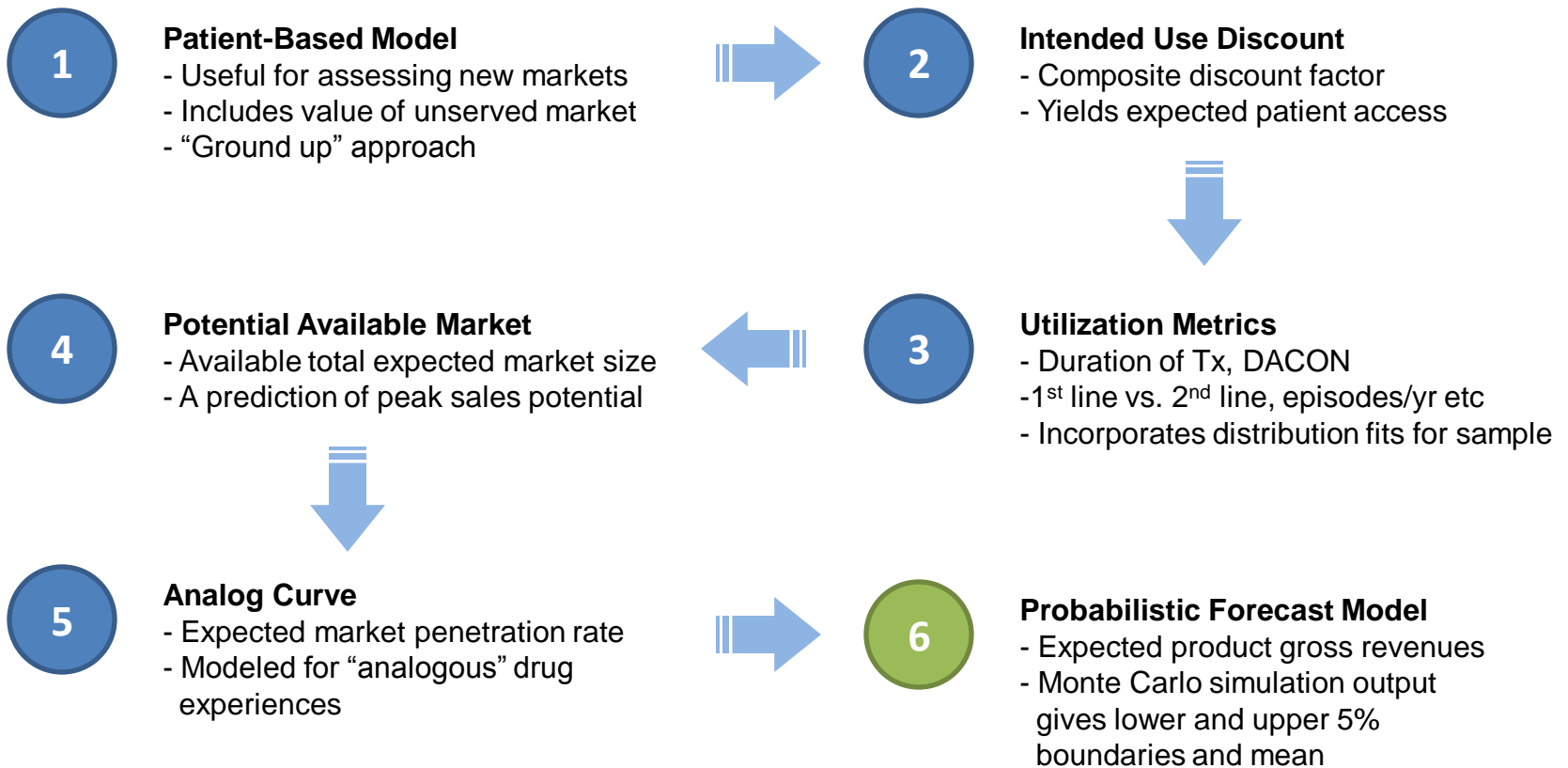
- For respondents aware of COMPANY
- Source of awareness
 - Specific questions focused on each of the PR initiatives (e.g., unaided & aided awareness, main recall, overall reaction, suggestions for improvement)

- Respondents rank order and preferences for proposed messaging (by PR agency)
- Identification of key message value drivers
- Establish baseline for future message awareness testing

Methodology: Prediction Forecast Models



The forecast model is a six-part model construct designed as a risk-adjusted probabilistic potential market forecast based upon Monte Carlo simulation.



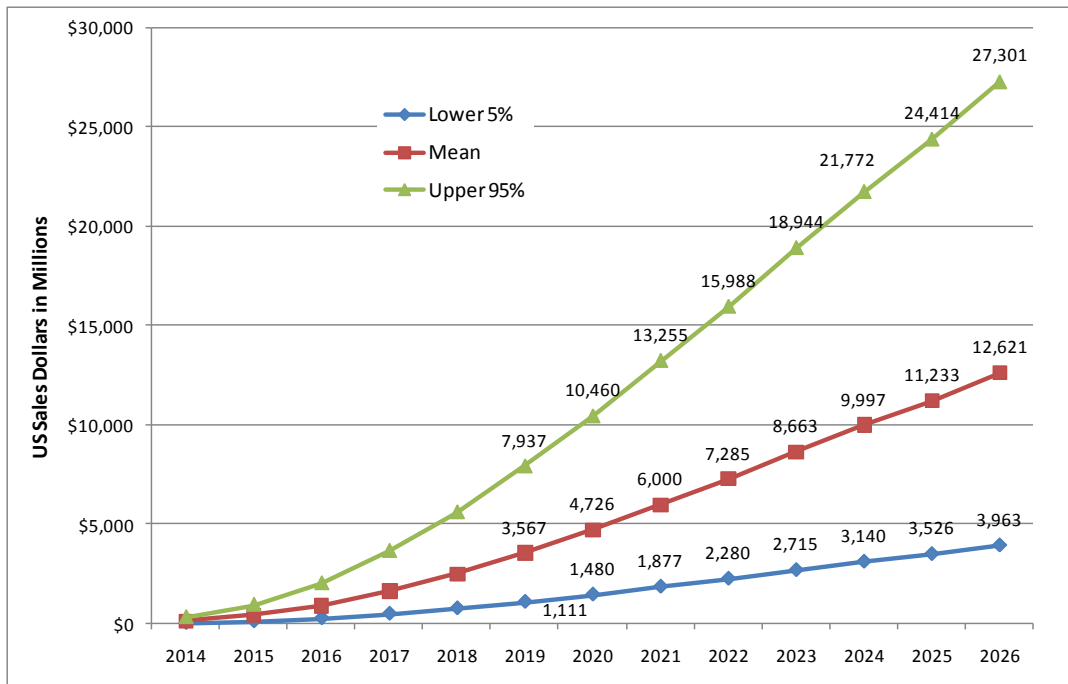
Methodology: Prediction Forecast Models



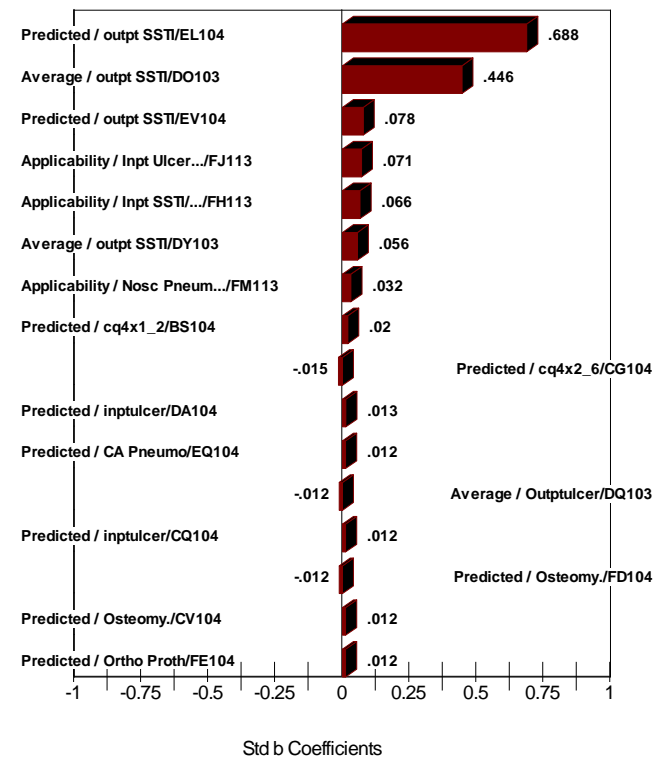
The forecast model is designed as a risk-adjusted probabilistic potential market forecast based upon Monte Carlo Simulation.

Example Output:

13-Year Forecast Prediction



Tornado graph for sensitivity analysis



Methodology: Decision Tool Optimizer

BioTrak's forecast methodology flows seamlessly into its Decision Tool Optimizer for convenient licensing and deal structuring simulations that maximize for ENPV outputs.

Risk-Adjusted Drug ENPV Calculator and Decision Tool Optimizer - Optimizer 1.0 - copyright BioTrak Consulting Group November 2005

for assistance or to procure primary research data, contact BioTrak www.biotrak.com 760-448-4820

| Prediction of Potential Market | | Phase I | Phase II | Phase III | NDA | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 |
|--------------------------------------|------------------------------|--------------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Potential Available Treatment Days | 20,000,000 | from patient-based model | | | | 27,717,174 | 30,073,134 | 32,629,350 | 35,402,845 | 38,412,087 | 41,677,114 | 45,219,669 | 49,063,341 | 53,233,725 | 57,758,591 |
| Daily Medication Cost | \$13.50 | | | | | \$16.10 | \$16.82 | \$17.58 | \$18.37 | \$19.20 | \$20.06 | \$20.97 | \$21.91 | \$22.89 | \$23.92 |
| Potential Expected Market (000s) | | | | | | \$446,219 | \$505,934 | \$573,641 | \$650,408 | \$737,449 | \$836,138 | \$948,034 | \$1,074,905 | \$1,218,754 | \$1,381,854 |
| Market Uptake Analog | Analog 2: maximum at 5 years | | | | | 12.1% | 30.0% | 54.6% | 72.5% | 78.0% | 75.0% | 67.0% | 50.0% | 30.0% | 15.0% |
| Drug Forecast (000s) | | | | | | \$53,906 | \$151,718 | \$313,406 | \$471,816 | \$575,210 | \$627,104 | \$635,183 | \$537,452 | \$365,626 | \$207,278 |
| Competitive Risk Discount | 70.0% | | | | | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% | 70.0% |
| Risk-Adjusted Forecast (000s) | | | | | | \$37,735 | \$106,203 | \$219,384 | \$330,271 | \$402,647 | \$438,973 | \$444,628 | \$376,217 | \$255,938 | \$145,095 |
| COGS | 5.0% | | | | | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% | 5.0% |
| *Pre- & Post-launch Expense (000s) | | | | \$5,000 | \$10,000 | \$15,000 | \$5,000 | | | | | | | | |
| Product SG&A | | | | | | 28.0% | 28.0% | 25.0% | 24.0% | 24.0% | 24.0% | 24.0% | 24.0% | 24.0% | 24.0% |
| Product Profit | | \$0 | \$0 | (\$5,000) | (\$10,000) | \$10,282 | \$66,156 | \$153,569 | \$234,493 | \$285,879 | \$311,670 | \$315,686 | \$267,114 | \$181,716 | \$103,017 |
| Development and Prelaunch | | Phase I | Phase II | Phase III | NDA | | | | | | | | | | |
| Development to be Completed | | Y | Y | | | | | | | | | | | | |
| Duration of Phase | | 12 | 12 | 12 | 12 | | | | | | | | | | |
| Phase Probability of Success | Miscellaneous | 56% | 36% | 53% | 67% | | | | | | | | | | |
| Cumulative Probability of Success | | 56% | 20% | 10% | 7% | | | | | | | | | | |
| R&D Expense (000s) | | \$5,000 | \$15,000 | \$30,000 | \$1,000 | | | | | | | | | | |
| Originator | | | | | | | | | | | | | | | |
| Upfront Payment (000s) | | \$5,000 | | | | | | | | | | | | | |
| Milestone Payments (000s) | | | \$1,000 | \$1,000 | \$1,000 | | | | | | | | | | |
| Reimbursed R&D (000s) | | \$1,000 | \$1,000 | \$1,000 | \$1,000 | | | | | | | | | | |
| Royalty on Net Sales (000s) | 14.0% | | | | | \$5,283 | \$14,868 | \$30,714 | \$46,238 | \$56,371 | \$61,456 | \$62,248 | \$52,670 | \$35,831 | \$20,313 |
| Money Factor | 23.5% | 1.24 | 1.53 | 1.88 | 2.33 | 2.87 | 3.55 | 4.38 | 5.41 | 6.68 | 8.25 | 10.19 | 12.59 | 15.55 | 19.20 |
| Expected DCFs (000s) | | (\$175) | (\$17,168) | (\$35,523) | \$433 | \$1,839 | \$4,190 | \$7,009 | \$8,544 | \$8,434 | \$7,446 | \$6,106 | \$4,184 | \$2,305 | \$1,058 |
| Risk Adjusted ENPV (000s) | (\$1,318) | -\$175 | -\$17,343 | -\$52,866 | -\$52,433 | -\$50,594 | -\$46,403 | -\$39,394 | -\$30,850 | -\$22,416 | -\$14,970 | -\$8,864 | -\$4,680 | -\$2,376 | -\$1,318 |
| Partner | | | | | | | | | | | | | | | |
| R&D Contribution | | \$5,000 | \$5,000 | \$5,000 | \$5,000 | | | | | | | | | | |
| Payments to Originator | | \$6,000 | \$2,000 | \$2,000 | \$2,000 | \$5,283 | \$14,868 | \$30,714 | \$46,238 | \$56,371 | \$61,456 | \$62,248 | \$52,670 | \$35,831 | \$20,313 |
| Total Contribution | | \$11,000 | \$7,000 | \$7,000 | \$7,000 | \$5,283 | \$14,868 | \$30,714 | \$46,238 | \$56,371 | \$61,456 | \$62,248 | \$52,670 | \$35,831 | \$20,313 |
| Money Factor | 1.0% | 1.24 | 1.53 | 1.88 | 2.33 | 2.87 | 3.55 | 4.38 | 5.41 | 6.68 | 8.25 | 10.19 | 12.59 | 15.55 | 19.20 |
| Expected DCFs | | (\$13,585) | (\$10,677) | (\$13,186) | (\$16,284) | \$5,418 | \$22,836 | \$42,055 | \$51,875 | \$51,208 | \$45,205 | \$37,075 | \$25,401 | \$13,992 | \$6,423 |
| Risk Adjusted ENPV | \$247,756 | -\$13,585 | -\$24,262 | -\$37,447 | -\$53,731 | -\$48,314 | -\$25,478 | \$16,577 | \$68,451 | \$119,660 | \$164,865 | \$201,940 | \$227,341 | \$241,333 | \$247,756 |

Variables

Annual Price Increase
Treatment Population Growth Rate

Select from menu

4.5%
8.5%





Research Director

Larry Risen, MBA

- 23 years medical industry commercial experience
- Project leader/director on over 300 consulting assignments involving new product planning, forecasting and commercialization strategy for new therapeutics, devices, and diagnostics
- Key researcher on numerous opportunity assessments
- Expert at forecast model development
- Over 3,000 physicians interviewed
- Managed 20 new product launches – 3 Rx, 17 Dx
- Built 2 specialty pharma commercial programs from ground up
- Currently BioTrak President and Senior Consultant

Consulting Team

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BioTrak Biostatistician

- Advanced analytics and statistics

Gerard Smits, Ph.D
BioTrak Biostatistician

- Advanced analytics and statistics

AnnKatrin Petersen, M.D., M.S.
Chief Medical Officer

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Carl Kremer, Ph.D
Medical Affairs and Research

- Pharmacy expertise
- Dx/Tx Pathways and algorithms

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