Trends in Biologic Therapies for Rheumatoid Arthritis: Results from a Survey of Payers and Providers

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Background: Advances in therapies for rheumatoid arthritis (RA), particularly biologics, have transformed the treatment paradigm for RA. However, the associated costs of these therapies result in a significant economic burden on the healthcare system. As a chronic disease requiring lifelong treatment, most health plans now position RA drugs as a high-priority therapeutic category.

Objective: To identify provider and payer practices and perceptions regarding coverage of RA biologics in the current marketplace, as well as emerging trends in reimbursement practices.

Method: In November 2011, Reimbursement Intelligence, a healthcare research company, collected and analyzed quantitative and qualitative data via parallel-structure online surveys of 100 rheumatologists and 50 health plan payers (medical and pharmacy directors) who represent more than 80 million covered lives. The surveys included approximately 150 questions, and the surveys were designed to force a response for each question.

Results: Payers reported using tier placement, prior authorization, and contracting in determining coverage strategies for RA biologics. Among providers, experience with older RA agents remains the key driver for the choice of a biologic agent. A majority of payers and providers (68% and 54%, respectively) reported that they did not anticipate a change in the way their plans would manage biologics over the next 2 to 4 years. Payers’ responses indicated uncertainty about how therapeutic positioning of newer, small-molecule drugs at price parity to biologics would affect the current reimbursement landscape. Survey responses show that approval of an indication for early treatment of RA is not likely to change the prescribing and reimbursement landscape for RA biologics. This survey further shows that payers and providers are generally aligned in terms of perceptions of current and future treatments for RA.

Conclusion: Advances in RA therapies allow patients increasing options for effective disease management. However, the high cost of biologic therapies and the need for lifelong treatment raise economic concerns. Payer satisfaction with current therapies and uncertainty about added value of new therapies will create challenges for new medications coming to market.

Rheumatoid arthritis (RA) is a chronic systemic autoimmune disorder and the most common form of inflammatory arthritis.1 RA affects 1% of the population, most often adults aged 40 to 70 years.7 Recent epidemiologic data indicate that the incidence of RA in women has risen in the past 10 years.5 Because RA affects many individuals who are of working age and remains a major cause of disability, the economic burden of RA adds a significant cost not only to patients and their families, but also to society as a whole.4,6 In addition, reduced quality of life, loss of work productivity, and substantial healthcare utilization are factors that must be considered in RA management.4,5

Because complications of RA may begin to develop within months of disease onset, early and aggressive treatment is considered clinically necessary to manage immediate symptoms of pain associated with inflammation, but also to slow disease progression to prevent long-term disability.1,6,7 Historically, estimates of work disabili-
KEY POINTS

- Advances in RA medications, particularly biologics, have transformed the treatment paradigm for RA; however, the associated costs of these therapies result in a significant economic burden on the healthcare system.
- With a chronic disease requiring lifelong treatment, most health plans are positioning RA drugs as a high-priority therapeutic category.
- This survey of 100 rheumatologists and 50 payers representing >80 million lives revealed that provider experience and satisfaction with older RA agents remains the underlying driver for choice of biologics.
- Payers and providers alike reported that they did not anticipate a change in the way their plans would manage biologics over the next 2 to 4 years.
- Payers were uncertain about the therapeutic positioning for newer, small-molecule drugs at price parity to biologics.
- Survey responses also suggest that an indication for a biologic to treat early RA will likely not change current prescribing and reimbursement patterns.

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plans, Managed Medicaid, and dual-eligible populations. More than two thirds (69%) of payers represented commercial plans with 3- or 4-tier formularies.

The rheumatologist group represented providers from large and small group practices, and ones with and without in-office infusion capabilities. Rheumatologists were screened as to whether their practice offered in-office biologic infusions, the practice volume of in-office infusions weekly, and the number of rheumatologists in the practice. The sample was weighted toward rheumatology and multispecialty group practices seeing more than 80 patients with RA monthly.

The parallel-structure payer and rheumatologist surveys were comprised of approximately 150 questions, and the survey instrument required answers to all questions. Survey questions included specific probes about 8 biologic therapies currently indicated for RA (Table 1); existing medications that may receive an RA indication; and new, small-molecule oral agents still in development. All respondents received an honorarium for their participation.

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Biologic Medications Indicated for Rheumatoid Arthritis</th>
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<tbody>
<tr>
<td>Brand name</td>
<td>Generic name</td>
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<td>Actemra</td>
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<td>Rituxan</td>
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<td>Remicade</td>
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**Results**

**Tier Placement**

Tiered cost-sharing is a common strategy for therapies covered under a pharmacy benefit. Payers reported that
none of the current 8 biologic medications (Table 1, page 85) covered under the pharmacy benefit is placed on tier 1. Tier 2 status was given most frequently to etanercept (Enbrel; 36%) and adalimumab (Humira; 34%), whereas the remaining products were distributed across tiers 3 and 4 (Figure 1, page 85).

Prior Authorizations and Step Edits

To target medications to appropriate patients, health plans may require patients to meet predetermined clinical criteria and receive prior authorization before reimbursement is approved. Similarly, health plans may use step edits, or a “fail-first” requirement, where payment for a therapy will be made only after certain therapies have been used first. If the patient does not respond appropriately (ie, considered a “step” or “failure”), then the provider will likely recommend a second-line therapy.12

Payers were asked about approval rates when prior authorizations or step edits are required. Survey results show that most health plans use prior authorizations to manage utilization of RA therapies; 80% to 88% reported they require prior authorizations for the 8 biologic options presented in the survey. More than half (55%) of the providers reported approval rates between 81% and 100% of the time, whereas 29% reported approval rates from 61% to 80% of the time (Figure 2).

Distribution Strategy and Use of Specialty Pharmacies

Most (80%) payers in the survey reported they use specialty pharmacies for distribution of biologic therapies for RA. Among those who use specialty pharmacies, 65% reported using closed networks, whereas 83% reported they do not mandate the use of specialty pharmacies for distribution of office-infused biologic agents. Specialty pharmacy services often offer services beyond product dispensing. Payers reported that the most valuable add-on services are patient education (60%), compliance programs (54%), compliance/adherence data reported back to payers (46%), and reimbursement assistance (28%).

Perceptions of Management Approach

Payer respondents characterized their general approach
to RA management in terms of level of stringency of drug approval requirements for providers. Specifically, payers were asked, “How would you characterize your plan’s general approach toward the management of rheumatoid arthritis?” Respondents were asked to choose from 5 categories—“open access,” “somewhat regimented,” “regimented approach,” and “other.”

Regimented was defined as “patients must have documented failure on a DMARD and a preferred biologic.” Open access was defined as “physician decides patient therapy and no documentation needed.”

Overall, 40% of payers characterized their plan’s approach as regimented. In contrast, only 33% of providers characterized their plans as regimented. A little more than one third (36%) of providers characterized their management approach as somewhat regimented, in which patients must have a documented failure while using a DMARD before a biologic drug will be approved.

Conversely, 57% of providers characterized their health plans as somewhat regimented. Of the payers, 10% reported that they offer open access, in which the physician decides on the patient’s therapy and no documentation is needed for treatment initiation or changes. More payers (16%) than providers (10%) reported open access in this survey.

**Impact of Reimbursement Process on Access to Biologics**

Providers reported that oral methotrexate (Trexall, Rheumatrex) is initiated within the first 3 months of RA diagnosis: 74% reported immediate initiation of the drug; 22% reported initiating methotrexate within 1 to 3 months. In addition, 21% of providers also reported initiating biologics within 1 to 3 months after initiation of methotrexate; 61% reported initiating biologics between 3 to 6 months; and 8% reported initiation of biologics between 6 months and 1 year. With regard to the number of biologics used for each patient, only 7% of providers reported that patients remained using the first biologic throughout the duration of their disease; 48% and 43% of providers indicated that patients typically cycle through 2 or 3 biologics, respectively, in the course of the disease (Figure 3).

Payers and providers were asked to rank, in order of importance (from highest to lowest), the reasons for their choice of preferred biologic(s) (Figure 4). For both respondent groups, efficacy ranked the highest in influence on choice of biologics. Payers ranked etanercept, adalimumab, and infliximab (Remicade)—the 3 most established of the 8 biologics studied—as the most frequent first- and second-line drug choices. Payers reported that contracting/rebating is the second most frequent influence in determining a preferred biologic for patients with commercial coverage. For the Medicare population, payers ranked safety as more important than contracting/rebating.
Payers and providers were asked about the main reason for low utilization of newer tumor necrosis factor (TNF) inhibitors, such as certolizumab (Cimzia) and golimumab (Simponi), and asked to rank in order from highest to lowest the reason for low utilization. Although contracting/price had some impact on product choice, ranking third, provider comfort with older agents was the first-ranked reason given by both providers and payers. More than three fourths (79%) of providers reported that some documentation of medical need for a biologic is always required. However, providers, like payers, stated that approval is granted more than two thirds of the time (Figure 2).

Only 15% of providers reported that plans require quantitative measurements (ie, x-ray) of active disease to allow the initiation or change of biologics. One third (34%) of providers and 40% of payers reported ACR 20% criteria for improvement (ACR-20) achievement as a requirement for approval of a biologic therapy, and 42% of providers and 44% of payers reported that demonstrated safety and tolerability are required to initiate biologic drug therapy.

Providers were asked, “Under what circumstances would you be willing to take steps to dispute a payer decision?” More than two thirds (68%) agreed with the statement, “To appeal a denied prior authorization of one autoimmune biologic because payer requires failure of a different autoimmune biologic agent (eg, step edit).” Similarly, 60% chose the statement, “To counter onerous administrative or documentation requirements (eg, to eliminate burdens some request for additional documentation beyond reasonable medical notes),” with 68% choosing the statement, “to secure reimbursement following a claim denial for an on-label diagnosis.” In a follow-up question, providers were asked how many times they would dispute a denial before accepting the denial as a defined payer policy. Nearly one third (32%) of providers reported 1 time, 38% reported 2 times, and 17% reported 3 times. In this survey, providers reported that their support staff was generally successful at overcoming prior authorization and step-edit requirements (Figure 5).

Overall, payers and providers were consistent in their responses in regard to changes in the way RA will be managed over the next 2 to 4 years, with 54% of rheumatologists and 68% of payers reporting no change. Payers were asked if changes in reimbursement for office-infused products influenced the treatment selection rheumatologists currently make. More than 6 of 10 (62%) payers said that these changes would not influence treatment selection.

Regarding sites of care, 82% of the rheumatologists reported providing in-office infusion, although 62% of these providers also reported using an alternate site of care at least part of the time. When asked does “site of care affect your choice of therapy,” 72% of providers agreed with the statement, “It does not affect my choice of biologic.”

### Potential Impact of Expanding Therapeutic Options for RA

Payers and providers were asked to assess the potential impact of several emerging trends in RA therapies,

- Fostamatinib, oral, spleen tyrosine kinase inhibitor
  - Phase 2 clinical trial
- Tofacitinib, oral, Janus kinase inhibitor
  - NDA submitted to the FDA on December 21, 2011
- Tabalumab, IV, human immunoglobulin G4 monoclonal antibody
  - Phase 3 clinical trial

FDA indicates US Food and Drug Administration; IV, intravenous; NDA, New Drug Application.
including new, small-molecule oral disease-modifying agents (Table 2, page 88). Respondents were asked, “Once FDA [US Food and Drug Administration] approved, how will they change your treatment strategy? Assume efficacy and safety are similar to current TNF inhibitors. Assume price parity to current biologics.”

One third (36%) of providers and one fifth (20%) of payers reported these agents will be used after methotrexate but before TNF inhibitors. One third (33%) of providers and 16% of payers reported these agents will be used after TNF inhibitor failure. Smaller numbers, 15% of providers and 18% of payers, reported these agents will be used after TNF inhibitors fail. Only 11% of providers and 34% of payers say they are not sure.

If small-molecule drugs are priced at a 15% to 20% discount to biologics, a little more than half (52%) of respondents, % will prescribe a biologic at the time methotrexate or another DMARD is initiated. 20% of providers and 23% of payers will add a biologic to therapy within 1 year of initiating methotrexate. 38% of providers and 46% of payers would not change prescribing, because biologics are already initiated within 3 years of diagnosis.

Figure 6 Impact of Early RA Indication on Prescribing Patterns

**Question for rheumatologists:** If an early RA indication were FDA approved, how do you think this will impact your biologic prescribing?

**Question for payers:** If an early RA indication were FDA approved, how do you think this will impact the biologic prescribing patterns of rheumatologists in your network?

Rheumatologists (N = 100) Payers (N = 50)

| Will prescribe a biologic at the time methotrexate or another DMARD is initiated | 31% | 20% |
| Will add a biologic to therapy within 1 year of initiating methotrexate | 38% | 46% |
| Would not change prescribing, because biologics are already initiated within 3 years of diagnosis | 38% | 38% |
| Other | 0% | 4% |

DMARD indicates disease-modifying antirheumatic drug; FDA, US Food and Drug Administration; RA, rheumatoid arthritis.
Drugs covered under the medical benefit lack the scrutiny of drug utilization review and coverage management protocols used in pharmacy benefit structures. The entry of new oral and self-injectable products will generate greater scrutiny, which may result in an impact on cost.

Discussion
Cost Burden
RA represents a significant burden to payers and is positioned as the highest priority therapeutic category for most health plans.13 Specialty pharmacy costs for RA therapies account for more than 23% of total spending for specialty drugs.9 Although nonspecialty drug costs in many categories are expected to grow more slowly over the next 3 years (because of increased availability of generics), costs for specialty therapies are expected to grow between 15% and 17% annually.10

Between 2011 and 2013, the costs for RA biologics are expected to be the single largest contributor to increases in specialty drug spending and are predicted to represent approximately one fifth (21%) of all health plan drug spending by 2014.10

Payers continue to implement and refine a variety of reimbursement strategies to balance quality of care in light of the economic burden of RA biologics, with varying effects.

Payer Reimbursement Management
The high costs associated with RA therapies have led payers to look for strategies to manage immediate costs, while weighing the potential for long-term costs of delayed treatment (eg, disability). Health plans have historically covered biologic therapies with subcutaneous delivery under a pharmacy benefit, because patients can self-administer these therapies.15 Intravenous and infusion therapies have been covered largely under a medical benefit, because drug administration needs to be delivered by a healthcare professional.15

Drugs covered under the medical benefit lack the scrutiny of drug utilization review and coverage management protocols used in pharmacy benefit structures. The entry of new oral and self-injectable products will generate greater scrutiny, which may result in an impact on cost.16 As new biologics enter the market, health plans will need to consider how coverage channels, including rebates or other discounts offered under a pharmacy benefit structure, will impact future costs.

Currently, there is no biologic therapy on the market that is specifically indicated for “early” RA. Because early stages of RA are diagnosed by clinical presentation rather than a definitive test, diagnostic parameters of early RA remain unclear.1

The survey findings highlight emerging trends in RA cost-management strategies, including payers’ efforts to follow evidence-based guidelines for use of RA biologics, and the trend toward shifting a greater proportion of the cost to patients; the resulting framework can inform the coordination of cost and clinical management of RA.

Results from this survey also show that payers and providers were generally aligned in terms of perceptions of current and future treatments for RA. Because provider experience and satisfaction with older RA agents were reported as the underlying driver for using current therapies, uptake of newer agents may also follow a similar pattern. Of note were responses that having an indication for early RA would not influence prescribing patterns, because biologics generally are already being used within 1 year of diagnosis, which is still considered early in the course of the disease.

Limitations
The limitations of this study include those inherent to all surveys. Survey questions must be developed broadly to be appropriate to as many respondents as possible. Surveys in general are inflexible to adaptation to individuals or subsets of respondents, so captured data may not reveal the richer context of the questions posed.
In addition, this survey was administered online and was formatted with forced-answer questions. Although there is a benefit to capturing responses for all questions and all respondents, question salience may not be uniform for all respondents, thereby impacting the weight of each question in relation to others.

Furthermore, the sample size of the provider group was twice that of the payer group, which could skew intergroup comparisons.

Conclusion

Although the availability of highly effective biologic therapies for RA has greatly improved patient care, the cost of these therapies remains a priority concern for patients, providers, and payers alike. Provider and payer satisfaction with older RA agents, and skepticism about the incremental value of new therapies, will continue to raise the hurdles for new RA therapies coming to market.

Author Disclosure Statement

Ms Greenapple reported no conflicts of interest.

References


STAKEHOLDER PERSPECTIVE

Biologic Therapies for Rheumatoid Arthritis: It’s All about Value

Value has been defined as the relationship between benefits and costs. Using mathematical concepts, value has been described as “value = benefits/cost” or the units of benefit derived from a given number of units of costs. Applying this definition, if we wish to maximize the value of a therapy, there are only 2 ways to achieve it: either by increasing the benefits obtained from the therapy, or by decreasing the cost paid for that therapy.

Value in healthcare is also a function of perspective. What may be considered valuable to an individual patient undergoing treatment or to a physician prescribing that treatment to a similar group of patients may not necessarily be considered valuable to the same extent by a payer, who must not only pay for that individual’s treatment but who also has to manage the needs of multiple groups of patients and/or members with equally compelling medical conditions and priorities. Optimizing value within the healthcare system means that physicians and payers must be aligned in the way they view the various benefits and costs of a given treatment.

Achieving such optimization is where the article by Ms Greenapple in this issue of American Health & Drug Benefits fits in. In her article, Ms Greenapple shows...
STAKEHOLDER PERSPECTIVE  (Continued)

that providers and payers, at least when it comes to the use of biologics for the treatment of rheumatoid arthritis, have much more in common than not when looking at value within this drug class. The findings from this survey have several important implications to providers, payers, and patients/plan members.

**PROVIDERS:** Providers can practice more autonomously in addressing the needs of the patient with rheumatoid arthritis. They can do this by following evidence-based guidelines as they initiate treatment with disease-modifying antirheumatic drugs, and only progress to more costly biologic therapies when they need to improve treatment benefits, thereby optimizing the value of treatment. Such staged management is aligned with payer coverage policies.

**PAYERS:** For payers, this issue is a matter of expectation. Knowing that providers practice using the same specialty guidelines that payers follow will allow payers to expect that their contracted providers will “do the right thing” when it comes to promoting evidence-based medicine when treating patients with rheumatoid arthritis.

**PATIENTS/PLAN MEMBERS:** When provider practice is aligned with plan policy, patients or plan members are the ultimate winners. As is described in this article, with 84% of providers reporting approval rates of at least 61% of requests for rheumatoid arthritis biologics (and 55% reporting approvals of at least 81% of such requests), patients who need more intensive treatment for their arthritis can receive it in a more timely and coordinated manner.

**MEDICAL DIRECTORS:** Does this mean that payers should stop enforcing step therapies or other such strategies? Regretfully, not yet; complete buy-in to evidence-based medicine has not yet been achieved, and we continue to see treatment irregularities for certain disease states. Perhaps one day soon, with the advancement of meaningful use parameters by providers, along with electronic medical records and decision support systems promoting evidence-based medicine, we will be able to get there. After all, reaching such a goal for rheumatoid arthritis, or any other significant condition, would not only be admirable, but more important, it would provide great value in healthcare.

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