





Prayas by Sanofi-Aventis in India: Making Healthcare Accessible to the Bottom of the Pyramid

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JAK inhibitors--FierceBio-5/11/12 Pfizer (\$PFE) scored the endorsement of an FDA panel for its arthritis pill tofacitinib this week, and the win could put some wind in the sails of drug developer Incyte (\$INCY). Incyte's shares jumped this week after agency advisers backed approval of Pfizer's potential blockbuster JAK inhibitor for rheumatoid arthritis.

Wilmington, DE-based Incyte has been developing a rival JAK inhibitor in partnership with drug giant Eli Lilly (\$LLY). And the interim data from a mid-stage trial data on the drug, known as LY3009104, are due out next month at the European League Against Rheumatism's Annual European Congress of Rheumatology, according to Incyte. the pipeline, Incyte fits the profile to be gobbled up by a larger company.

Kinase Inhibitors-Jaks and Syk

Incyte--JAK 1 and 2 inhibitors--being tried for RA Jakafi (ruxolitinib) approved for MF-myelofibrosis

-->this one gets JAK2 and 1?

Rigel's Syk-Fostamatinib

Galapagos (GLPG0634) with ABBOTT
-->furthest behind but claims to be JAK1 specific

Tofa-Pfizer- AdCom May2012, PDUFA--August 2012

Vertex-VX-509--JAK3 specific?

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Belimumab for lupus erythematosus: added benefit not proven

Drug manufacturer presents no relevant studies for the benefit assessment

Belimumab (trade name Benlysta @) has been approved since July 2011 as an add-on therapy for adult patients with the autoimmune disease systemic lupus erythematosus (SLE). This monoclonal antibody is only considered as treatment when the disease is still active in spite of standard therapy

Anthera's Blisibimod for lupus Currently ph2b

same MOI as benlysta?



ACthar?

 DMPM--Dermatomyositis and polymyositis?--ACTHAR gel?

CAPS---Arcalyst is approved for this--an IL-1 disorder

- CAPS--from wiki--Cryopyrin-associated periodic syndrome (CAPS) is a spectrum of autoinflammatory syndromes including familial cold autoinflammatory syndrome (FCAS, formerly termed familial cold-induced urticaria), the Muckle-Wells syndrome (MWS), and neonatal-onset multisystem inflammatory disease (NOMID, also called chronic infantile neurologic cutaneous and articular syndrome or CINCA). They share many clinical features.
- These syndromes are associated with mutations in NLRP3, the gene encoding cryopyrin. This is a component of the interleukin 1 inflammasome, and mutations lead to unregulated production of interleukin 1β. Monoclonal antibodies against interleukin 1β (such as canakinumab), other interleukin 1 binding proteins (such as rilonacept), or interleukin 1 receptor antagonist (for example anakinra) can be used to treat these disorders.

RA-REMS

patients with rheumatoid arthritis have twice the risk for cardiovascular mortality as the larger population

RA registries

- CORRONA
- · there's a British Registry
- · others?

RA-Diagnostics

Crescendo Biosciences

- · test-Vectra DA
- 12 biomarkers

The

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IL-17 Inhibitors

from Amgen--brodalumab (formerly AMG 827) an IL-17 inhibitor

- · Ph2 -NEJM article
- from press release-The majority of subjects treated with brodalumab 210 mg every other week achieved total clearance of their skin disease (PASI 100 of 62 percent)--so first biologic to show total clearance

from Ely Lilly--lxekizumab (formerly LY42439821)

ph2 NEJM article

BOTH of these articles came out in NEJM on March29,2012...will have to see if these are really going head to head, which is better, etc

AND where is Novartis' secukinumab (AIN457)...Ph2, -press release- touting good ph2, oct 2011

what's this 3-way race look like? timing vs efficacy/safety?

JAK inhibitors

- -Pfizer's Tofacitinib
 - which is a JAK3 inhibitor
- -Incytes-INCB28050 (LY3009104)
- a jak1/2 inhibitor
- -Vertex's-VX-509
- Jak3

All about the specificity, trying to be more specific to Inflammatory tissue, thus more efficacy and lessen the safety profile

Rigel's Fostamatinib- Syk inhibitor

elecoxib or