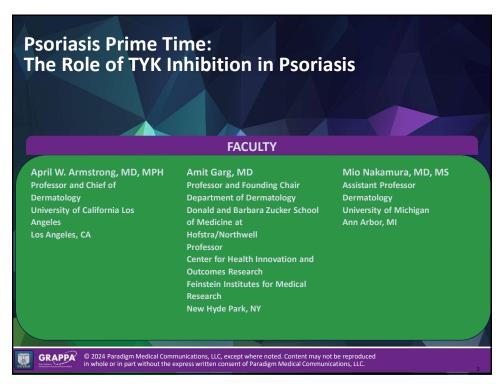
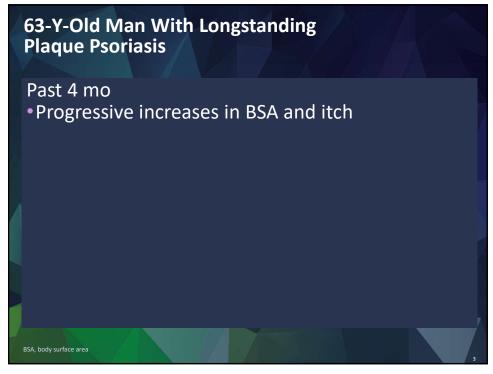


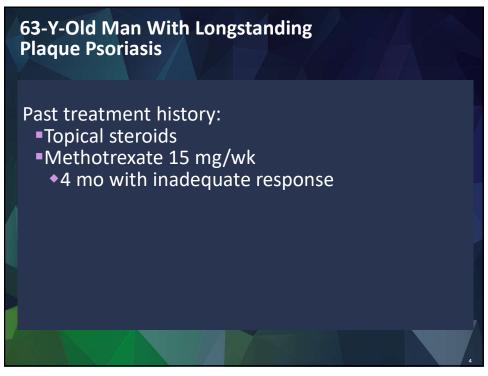
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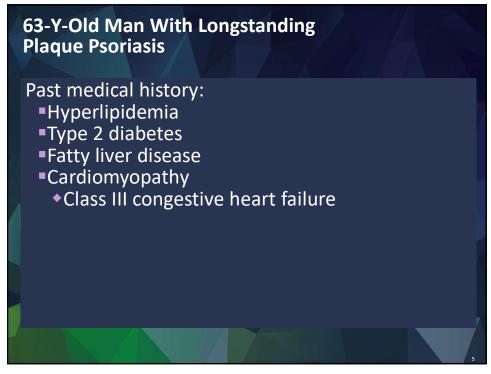
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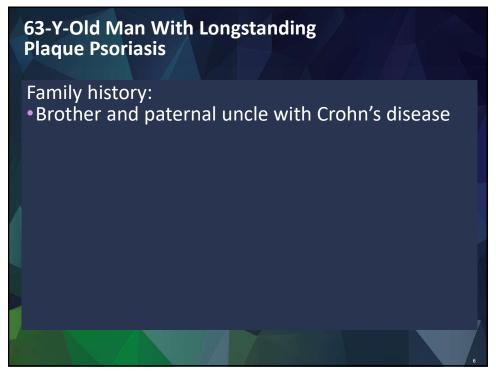
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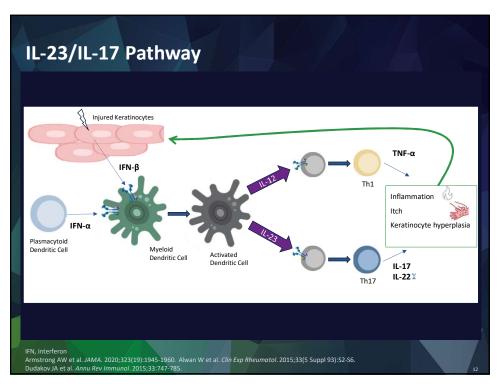
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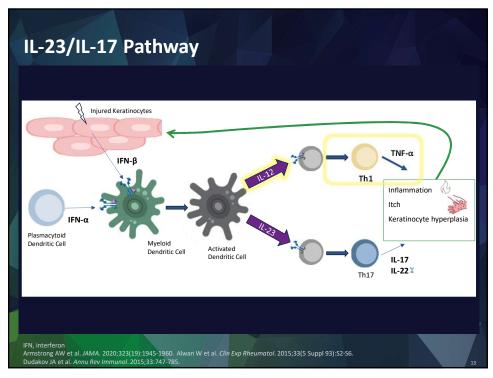
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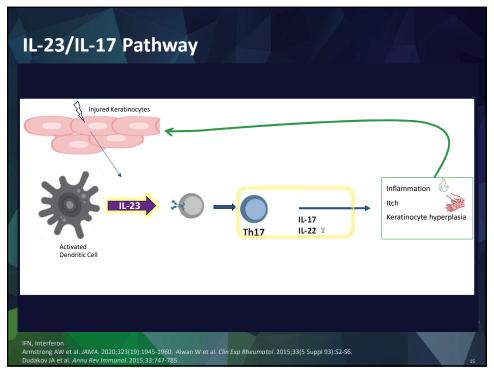
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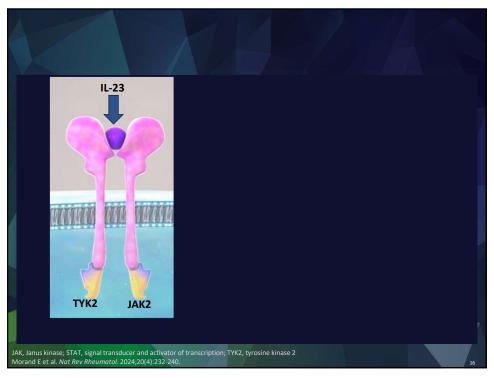
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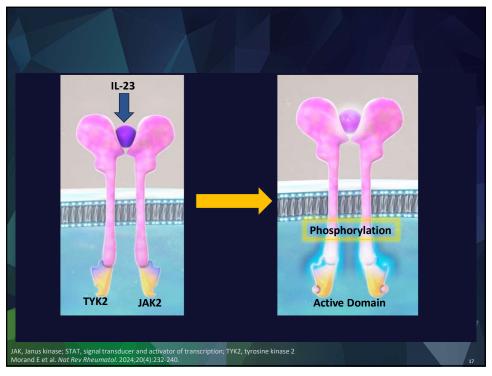


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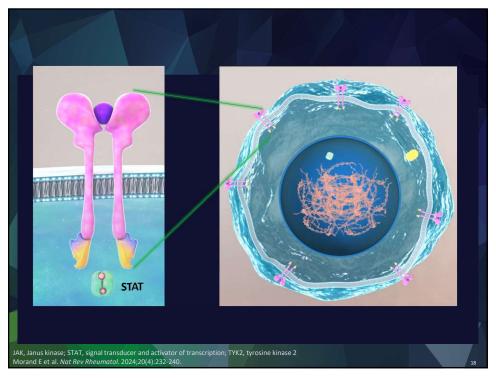
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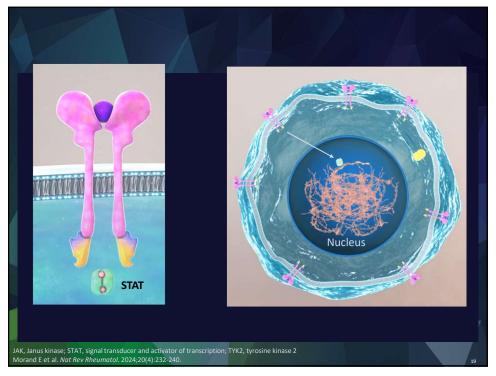




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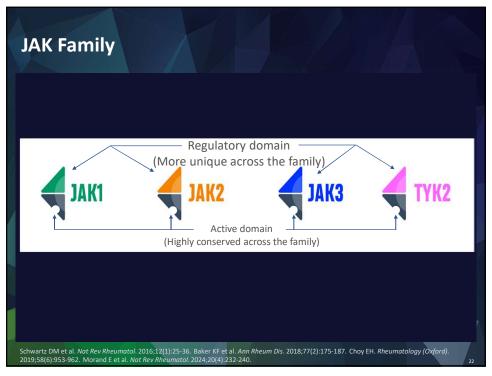


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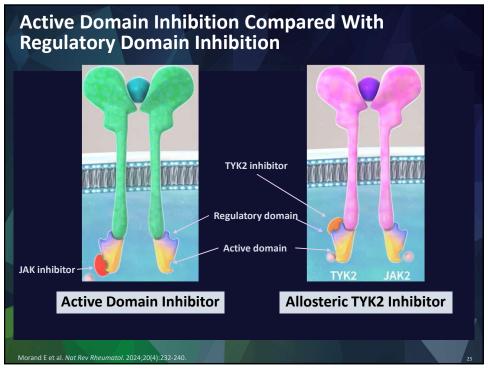
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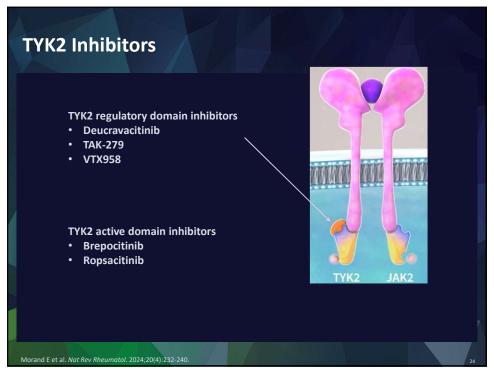
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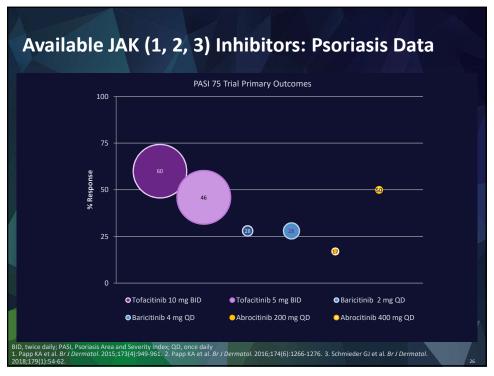
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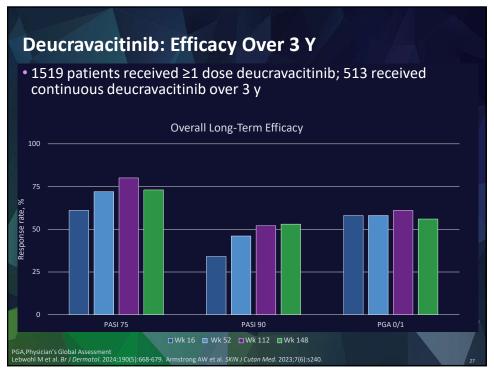
IC <sub>50</sub> (nM)	JAK1	JAK2	JAK3	TYK2 Active Site (JH1)	TYK2 Pseudokinase Site (JH2)
Tofacitinib	15	77	55	489	-
Baricitinib	4	7	787	61	_
Upadacitinib	47	120	2304	4690	-
Abrocitinib	29	803	>15,000	1250	_
		TYK2 Inh	ibitors		
Brepocitinib	17	77	6494	23	_
Ropsacitinib PF-06826647	383	74	>10,000	17	_
Deucravacitinib	>10,000	>10,000	>10,000	>10,000	0.2
Wrobleski ST et al. J Med Cl					

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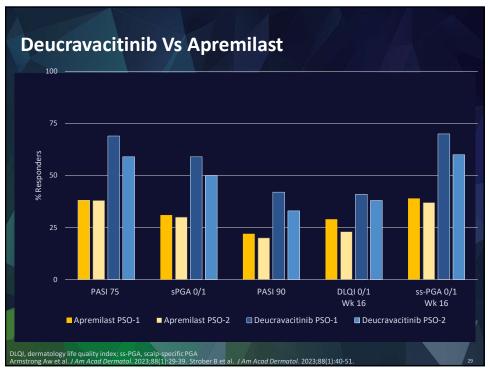
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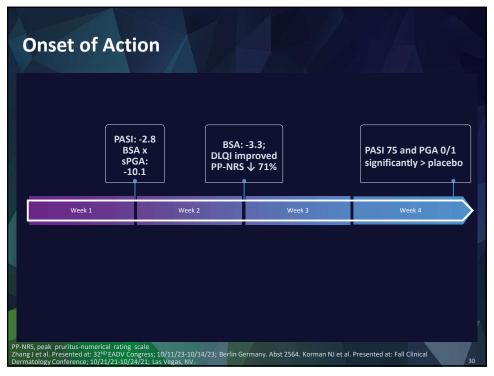
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AE, EAIRs/100 PY	Y1	Y2	Y3
Nasopharyngitis	26.1	12.9	11.4
URI	13.4	6.5	
COVID-19	0.2	5.1	6.5
Herpes zoster	0.9	0.7	0.6
MACE	1.2	0.4	0.3
VTE	0.2	0.1	0.1
Malignancies	1.0	0.9	0.9
Lymphoma	0.1	0.1	
Acne	2.9	1.3	
Folliculitis	2.8	1.3	
ection; VTE, venous thromboembo	usted incidence rate; MACE, major adver ism 190(5):668-679. Armstrong AW et al. <i>SKII</i>		ears; URI, upper respiratory

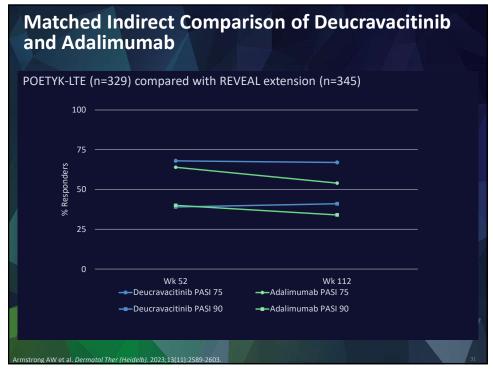
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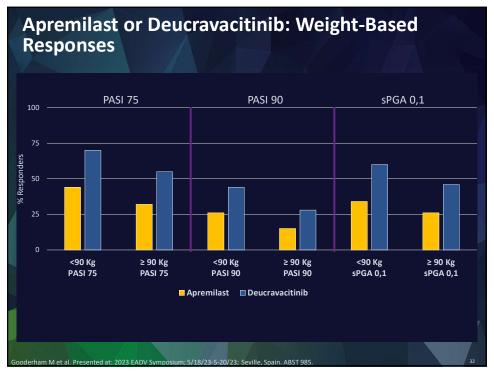
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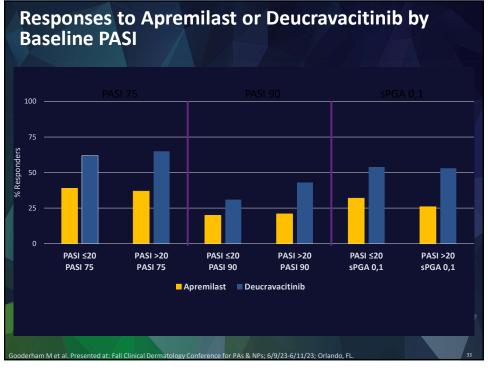
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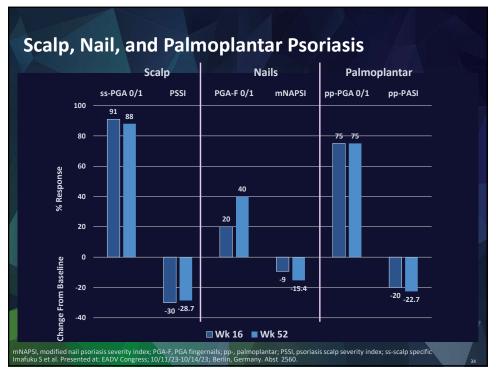


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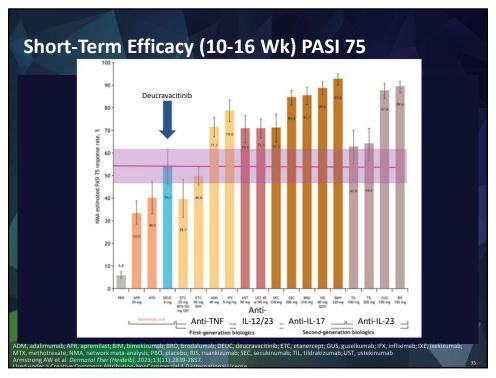
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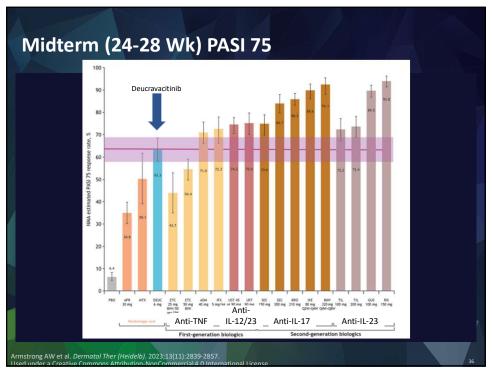


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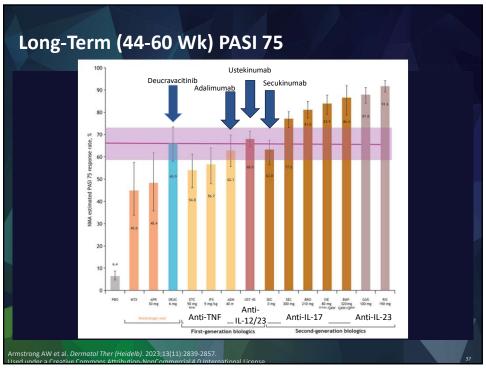


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#### Psoriasis Prime Time: The Role of TYK Inhibition in Psoriasis www.paradigmmc.com/1284-1



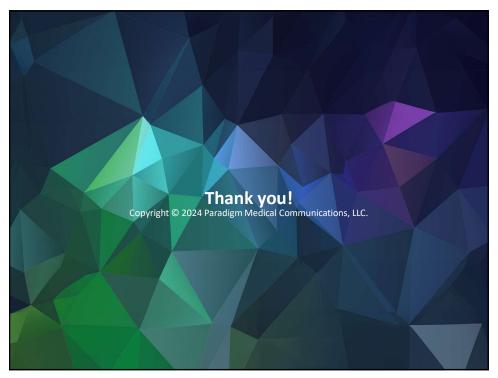
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#### **Summary Wrap-Up**

- The IL-23/Th17 pathway is active in psoriasis, making IL-23 and IL-17 attractive treatment targets
- Proinflammatory cytokines can be inhibited through kinase inhibition of the JAK-STAT signaling pathway
  - ▶ Inhibition of the active kinase site is effective, but there is cross-reactivity due to conserved homology in the active sites of JAKs 1,2,3 and TYK2
  - ► Allosteric inhibition of the TYK2 regulatory site shows greater selectivity for TYK2 and reduction of TYK2-mediated cytokines
- Clinical data for deucravacitinib show superiority compared with apremilast and comparable efficacy in meta-analysis to 1<sup>st</sup> generation biologics, particularly with long-term use, with good safety and tolerability

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