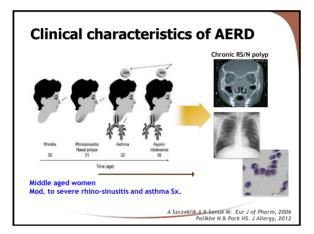


Reaction time	Clinical manifestation	Type of reaction	Underlying disease	Putative mechanism
Acute (immediate to several hours)	Rhinitis/asthma (AERD)	Cross-reactive (ie, induced by multiple NSAIDs)	Asthma/RS /nasal polyps	Inhibition of COX-1
	Urticaria/angioedema (ASA intolerant chronic urticaria, AECD)	Cross-reactive	CU AR/atopy	Inhibition of COX-1 Unknown ?
	Urticaria/angioedema /Anaphylaxis ASA intolerant acute urticaria)	Multiple NSAID hypersensitivity	AR/atopy	Inhibition of COX-1 Unknown ?
	Urticaria/angioedema /anaphylaxis	Single NSAID hypersensitivity	Atopy /food allergy /drug allergy	Specific IgE ?
Delayed (>24 h)	Fixed drug eruption Severe bullous reaction Maculopapular eruption Contact and photocontact Dermatitis	Selective or cross-reactive	Usually none	T cells Cytotoxic T cells Natural killer cells Other

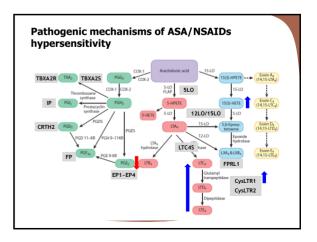


Clinical characteristics of the AERD patients in a Korean cohort

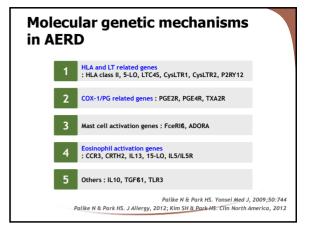
	AERD (n=267)	ATA (n=449)	p value
Atopy (positive)	114 (53.3%)	175 (60.8%)	0.101
Log total IgE	2.23±0.55	2.22±0.64	0.773
FEV1(% Pred)	79.65±26.07	84.89±21.67	0.018
Metacholine_PC20	4.35±7.66	6.76 ± 8.94	0.003
Rhinosinusitis (positive)	127 (75.6%)	198 (58.2%)	<0.001
Nasal polyp (positive)	78 (48.4%)	14 (6.5%)	<0.001
Asthma duration (year)	6.15±5.85	4.9±5.97	0.045
ATA; aspirin-tolerant asth	ma, "24% of them	were severe asthr	na"

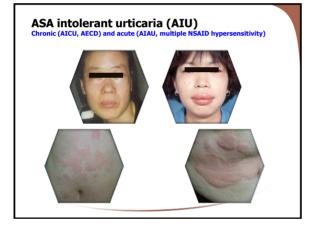
Palike N & Park HS, Yonsei Med J, 2009:50:744

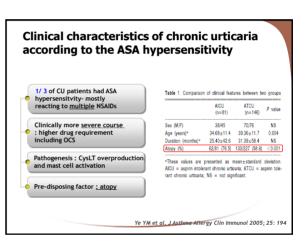
AERD is highly associated with R-S/nasal polyp Rhinoscopy Eosinophils were more activated in nasal polyp tissue from AERD patients AERD (n=10) ATA (n=10) p value ECP(ng/mg) 59.0 ± 14.0 0.01 366.5 ± 89.1 53.7 ± 21.1 27.8 ± 6.3 0.70 MMP-9(ng/mg) MMP-2(ng/mg) 134.1 ± 30.5 81.9 ± 14.1 0.29 EG2+Cells TIMP-1(ng/mg) 42.7 ± 12.3 11.1 ± 4.1 0.02 MMP-9/TIMP-1 1.8 ± 0.6 4.6 ± 1.3 0.07 53 MMP-2/TIMP-1 6.4 ± 1.7 13.8 ± 2.2 0.02 Lee YM & Park HS. J Kor Med Sci, 2003;18:97



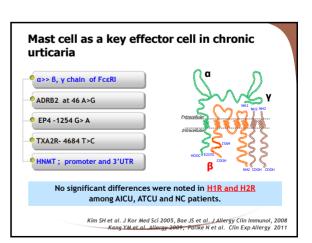
,	concentrations at bas		
Group	AIA	ATA	Anaphylaxis
LTE4	2275 (449-3495)*,‡	156 (152-209)	183 (124-197)
2,3-Dinor-9a,11b-PGF2	161 (96.3-200)	92.5 (58.9-116)	160 (29.0-249)
9a,11b-PGF2	21.6 (18.1-31.0)	31.6 (13.7-100)	16.4 (16.0-75.4)
PGE2	71.9 (43.0-161)†	313 (228-504)	202 (103-384)
PGF2a	89.8 (40.5-307)	87.1 (68.6-146)	71.1 (30.1-241)
ent-PGF2a	405 (356-676)	480 (359-657)	411 (290-494)
Changes of CysLis,	PGD & PGE2 after AS	A challenges	
the second secon	PGD & PGE2 after AS	A challenges	. ₁₄₄₄ чын И

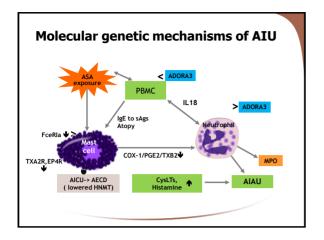


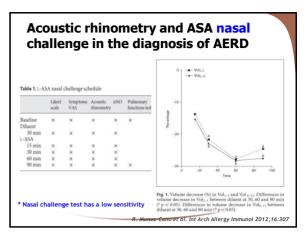


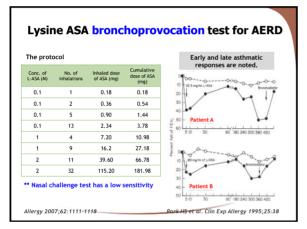


	AIAU (n=232)	AICU (n=244)	NC (N=232)	P value		
				AIAU vs. AICU	AIAU vs. NC	AICU vs. NC
Log[MPO] (log(ng/mL))*	2.10±0.53	1.84±0.43	1.87±0.73	0.0071	0.0291	NS
Log[IL-8] (log(pg/mL))	1.35±0.43	1.23±0.37	1.30±0.37	NS	NS	NS
Log[IL-18] (log(pg/mL))	2.29±0.24	2.23±0.23	2.03±0.60	NS	<0.001†	<0.001†
TGF-β1 (pg/mL)*	30.8±7.40	32.5±9.18	23.1±11.4	NS	<0.001	<0.001*
Specific IgE antibody to SEA"	13/78 (16.7%)	15/115 (13.0%)	6/83 (8.1%)	NS	NS	NS
Specific IgE antibody to SEB"	12/78 (15.4%)	22/114 (19.3%)	2/75 (3.0%)	NS	NS	NS
Specific IgE antibody to TSST-1"	16/78 (20.5%)	37/115 (32.2%)	2/86 (2.6%)	NS	0.005*	<0.005‡









Time	Day 1	Day 2	Day 3
First dose	Placebo	ASA 30 mg	ASA 100-150 mg
Second dose after 3 hrs	Placebo	ASA 45-60 mg	ASA 150-325 mg
Third dose after 6 hrs	Placebo	ASA 60-100 mg	ASA 325-650 mg
ng function, degre induce cutaneous	e of previous react , nasal and GI symp	y doctors depending up tion, etc. otoms as well as broncl rovocation test with A	hoconstricions

