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#### Education

Indiana University Medical Center (Indianapolis, IN) Dermatology Residency, 1992-95

St. Vincent Hospitals and Health Services (Indianapolis, IN) Internal Medicine Residency, 1989-92

Indiana University School of Medicine (Indianapolis, IN) Medical Doctorate, 1989

Indiana University (Bloomington, IN) Bachelor of Arts in Biology, 1985

Northfield High School (Wabash County, IN) Diploma, 1981

#### **Professional Experience**

**Dawes Fretzin Clinical Research Group, LLC** (Indianapolis, IN) *Investigator, 2004-Present* 

**Dawes Fretzin Dermatology Group, LLC** (Indianapolis, IN) Dermatologist, 1995-Present Investigator, 2002-Present

**Walker Clinical Evaluations** (Indianapolis, IN) Sub investigator, 1994-1995

**Vencor Hospital** (Indianapolis, IN) *House Physician, 1993-1995* 

Robert J. Steele, Internal Medicine (Kokomo, IN) Cross-coverage for multiple physicians, 1992-1995

Johnson County Internal Medicine (Franklin, IN) Hospital-based coverage, 1992-1995

Physician's Weight Loss Center (Indianapolis, IN) House Physician, 1992

Northside Cardiology P.C. (Indianapolis, IN)

Kwd 2/22

Hospital-based coverage, 1990-1992

#### **Professional Experience (Cont)**

St. Vincent Hospitals and Health Services (Carmel, IN) House Physician, 1990-1992

St. Vincent Hospitals and Health Services (Indianapolis, IN) House Extern, 1989-1990

#### **Honors and Awards**

1995	Young Investigator's Award, Second place, Journal of Dermatologic surgery
	and Oncology
1994-95	Chief Resident, Dermatology
1985	Cum Laude at Indiana University, Bloomington, Indiana
1981	Phi Beta Kappa, Indiana University, Bloomington, Indiana
1981	Valedictorian, Northfield High School
	-

Clinical Study Experience

Phase: 3 Sponsor: Celgene PSI: SAF A PHASE 3B, MULTI CENTER, OPEN-LABEL LONGTERM EXTENSION STUDY OF APREMILAST (CC- 10004) IN PEDIATRIC SUBJECTS FROM 6 THROUGH 17 YEARS OF AGE WITH MODERATE TO SEVERE PLAQUE PSORIASIS

July 2019- present

PSI: KWD Sponsor: Arcutis ARQ-154-204: A Phase 2b, 8-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-154 Foam 0.3% Administered QD Adolescents and Adults with Scalp and Body **Psoriasis** 

October 2019- Present

PSI: SAF Phase: 3b Sponsor: Abbvie

M19-164: A Phase 3b, Multicenter, Interventional, Open Label Study of adult patients with moderate to severe plaque psoriasis who have a suboptimal response to secukinumab or ixekinumab and are switched to risankizumab

October 2019- Present

PSI: KWD Phase: 3 Sponsor: Arcutis

A Phase 3, 8-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-151 Cream 0.3% Administered QD in Subjects with Chronic Plaque Psoriasis

October 2019- Present

PSI: KWD Phase: 3 Sponsor: Arcutis

A Phase 3, Multicenter, Open-Label Extension Study of the Long-Term Safety of ARQ-151 Cream 0.3% in Subjects with Chronic Plaque Psoriases who have Completed Preeceding Studies ARG-151-301 or ARQ-151-302

ARQ-151-306

December 2019- Present

Phase: 3 PSI KWD Sponsor: Arcutis A Phase 3, 8-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of

ARQ-151 Cream o.3% Administered QD in Subjects with Chronic Plaque Psoriasis October 2019- Present

Sponsor: Celgene PSI: SAF Phase: 3 CC-10004-PSOR-025: A PHASE 3, MULTICENTER, RANDOMIZED, PLACEBO-CONTROLLED. DOUBLE-BLIND STUDY OF THE EFFICACY AND SAFETY OF APREMILAST (CC-10004) IN SUBJECTS WITH MODERATE TO SEVERE GENITAL PSORIASIS August 2019- Present Sponsor: Lilly PSI: SAF Phase: 1 J1P-MC-KFAC: A Phase 1, Double-Blind, Randomized, Placebo-Controlled, Multiple-Dose Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of Subcutaneous LY3471851 in Patients with **Psoriasis** November 2019- Present Sponsor: Dermavant PSI: KWD Phase: 2/3 DMVT-505-3003 A Long-Term, Open-Label, Extension Study to Evaluate the safety of Tapinarof cream, 1% for the Treatment of Plaque Psoriasis in Adults December 2019- Present Sponsor: Dermayant PSI: SAF Phase: 3 DMVT-505-3001 A Phase 3 Efficacy and Safety of Tapinarof for the Treatment of Plaque Psoriasis in January 2019- Present Sponsor: PCORI LITE PCS PSI: SAF Phase: 2/3 A pragmatic trial of home versus based narrow band ultraviolet B phototherapy for the treatment of psoriasis April 2019- Present Sponsor: Lilly PSI: SAF Phase: 2/3 Protocol I6T-MC-AMBK An Open-Label Evaluation of Mirikizumab following Subcutaneous Administration Using Prefilled Syringe or Auto Injector in Patients with Moderate-to-Severe Plaque Psoriasis-I6T-MC-AMBK February 2019- Present Sponsor: Novartis PSI: KWD Phase 2/3 Novartis Pharmaceuticals trial entitled: a randomized, double-blind, multicenter study assessing short (16 weeks) and long-term efficacy (up to 1 year), safety, and tolerability of 2 subcutaneous secukinumab dose regimens in adult patients with moderate to severe hidradenitis suppurativa (SUNRISE) Protocol No: CAIN457M2302 March 2019- Present Sponsor: Akros Pharma PSI: SAF Phase: 2/3 A Multicenter, Randomized, Double-blind, Placebo-controlled, Parallel group Study to Evaluate the Efficacy and Safety of JTE-451 Administered for 16 Weeks in Subjects with Moderate to Severe Plague Psoriasis (IMPACT-PS) February 2019- Present Sponsor: Menlo Therapeutics PSI: KWD A Randomized, Double-Blind, Placebo-Controlled Study of the Efficacy, Safety, and Tolerablility of Serlopitant for the Treatment of Chronic Pruritus of Unknown Origin. January 2019- Present

PI: SAF

A phase II, Randomized, Placebo-controlled, Double-blind, Multiple Dose study to Evaluate the Efficacy

Sponsor: Anaptys Bio

Phase: 2

and Safety of ANBO19 in Subjects with Palmoplantar Pustulosis.

November 2018- Present

Sponsor: Anaptys Bio PI: SAF Phase: 2/3

A Single Arm Multiple Dose Study to Assess the Efficacy and Safety of ANB019 in Subjects with Generalized Pustular Psoriasis

November 2018- Present

Sponsor: Celgene PI: SAF Phase: 3

A PHASE 3, MULTI-CENTER, RANDOMIZED, PLACEBO-CONTROLLED, DOUBLE-BLIND STUDY OF THE EFFICACY AND SAFETY OF APREMILAST (CC-10004) IN SUBJECTS WITH MILD TO

MODERATE PLAQUE PSORIASI Number of Patient consent: 0 September 2018- Present

Sponsor: Celgene PI: SAF Phase: 3

A PHASE 3, MULTI-CENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY TO ASSESS THE EFFICACY AND SAFETY OF APREMILAST (CC-10004) IN PEDIATRIC SUBJECTS FROM 6 THROUGH 17 YEARS OF AGE WITH MODERATE TO SEVERE PLAQUE PSORIASIS

Number of Patient consent: 2 September 2018- Present

Sponsor: Novartis PI: KWD Phase:

Novartis Pharmaceuticals trial entitled: A randomized, double-blind, placebo- and active controlled multicenter trial to demonstrate efficacy of subcutaneous secukinumab compared to placebo and etanercept (in a single-blinded arm) after twelve weeks of treatment, and to assess the safety, tolerability, and longterm efficacy in subjects from 6 to less than 18years of age with severe chronic plaque psoriasis.

Number of Patient consent: 0 February 2018- October 2018

Sponsor: Lilly

PI: SAF

Phase: 4

11F-MC-RHCR

Phase IV

A 24-Week Multicenter, Randomized, Double-Blind, Parallel-Group Study Comparing the Efficacy and Safety of Ixekizumab to Guselkumab in Patients with Moderate-to-Severe Plaque Psoriasis

**Number of Patient consent: 9** 

March 2019- Present

Sponsor: Novartis PI: SAF Phase: 3

Novartis Pharmaceuticals trial entitled: A randomized, double-blind, multicenter study assessing short (16 weeks) and long-term efficacy (up to 1 year), safety, and tolerability of sub-cutaneous secukinumab in subjects of body weight 90 kg or higher with moderate to severe chronic plaque-type psoriasis

Number of Patient consent: 5

June 2018- Present

Sponsor: Lilly PI: SAF Phase: 3

I6T-MC-AMAH A Multicenter, Long-Term Extension to Evaluate the Long-term Safety and Maintenance of Treatment Effect of Mirikizumab in Patients with Moderate-to-Severe Plaque Psoriasis OASIS-3

Number of Patient consent: 4

June 2018- Present

Sponsor: Bl PI: SAF Phase: 2

Phase II evaluation of safety, tolerability, and efficacy of BI 730357 in patients with moderate-to-severe plague psoriasis.- 1407-0030

August 2018- Present

	PI: SAF -Blind, Placebo-Controlled Study Cor Placebo in Patients with Moderate-to	
	PI: SAF bo-Controlled, Multicenter, 24- week Fumarate) Extended Release Tablets D-004	
the Safety, Tolerability, and Efficacy	PI: KWD e-Blind, Placebo-Controlled, Mutlicer of SNA-120 (Pegcantratinib) Ointme I Psoriasis in Subjects Being Treated	ent for the Symptomatic
Sponsor: Allergan A Randomized, Double-Blind, Place Pharmacokinetics and Pharmacodyr 001 January 2018- May 2018	PI: SAF bo-Controlled, Study to Assess the E namics of AGN-242428 in Patients w	Phase: 2b Efficacy, Safety, ith Plaque Psoriasis: 1957-201-
	PI: KWD  Blind Study Evaluating the Compara the Treatment of Moderate to Sever	
Sponsor: Novartis	PI: KWD	Phase: 4
A Randomized, Double-Blind, Place in subcutaneous adipose tissue and	bo-Controlled, Parallel Group, Multice modulation of skin inflammation afte , and up to 52 weeks of treatment wit	enter Study to explore changes or 12 weeks of treatment with
Sponsor: Pfizer	PI: SAF	Phase: 2A
A Phase IIa, Randomized, Double-B	lind, Placebo-Controlled Study to Eve to Severe Plaque Psoriasis. B79310	aluate Safety and Efficacy of PF
	PI: KWD e-Blind, Placebo-Controlled, Parallel afety of BMS-986165 in Subjects with	
Sponsor:AbbVie	PI: SAF	Phase: 3
A Multicenter, Open-Label Study to a moderate to severe plaque type pso March 2017- Present	assess the safety and efficacy of rlsa	nkizuMab for maintenance in
Sponsor:Janssen	PI: KWD	Phase: 3

A Phase III Open-Label Study to Assess the Efficacy, Safety, and Pharmacokinetics of Subcutaneously Administered Ustekinumab in the Treatment of Moderate to Severe Chronic Plaque Psoriasis in Pediatric Subjects >/= 6 to < 12 Years of Age. CNTO1275PSO3013

January 2017- October 2017

Phase: 2B Sponsor: UCB BioPharma PI: SAF A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Dose Ranging Study to Evaluate the Safety, Efficacy, Pharmacokinetics, and Pharmocodynamics of Bimekizumab in Adult Subjects with Moderate to Severe Chronic Plaque Psoriasis. PS0010 October 2016- June 2017 Phase: 1 Sponsor: Eli Lilly PI: SAF A Multi-Dose, Dose-Escalation Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of LY3041658 in Patients with Neutrophilic Skin Diseases. I7P-MC-DSAB September 2016-August 2019 Sponsor: Kadmon PI: SAF Phase: 2 A Phase II, Randomized, Double-Blind, Placebo-Controlled, Dose-Finding Study to Evaluate the Safety, Tolerability, and Efficacy of KD025 in Adult Subjects with Moderate to Severe Chronic Plaque Psoriasis who are Candidates for Systemic Therapy or Phototherapy. KD025-211 September 2016-November 2019 Phase 3 PI: KWD Sponsor: Novartis A 52-week, Multicenter, Randomized, Double-Blind Study of secukinumab (300 mg) to demonstrate the efficacy as assessed by Psoriasis Area and Severity Index and Investigator's Global Assessment after 12 weeks of treatment, compared to ustekinumab, and to assess long term safety, tolerability, and efficacy in subjects with moderate to severe plaque psoriasis. CAIN457A2326 August 2016- Present Sponsor: Evidera/Eli Lilly and Company PI: SAF Phase: 4 Assessment of the Content Validity of the Psoriasis Symptoms Scale (PSS). - EVA-18225-01 June 2016- Present PI: SAF A Multicenter, Randomized, Double-Blind Study Comparing the Efficacy and Safety of Ixekizumab Versus Placebo in Patients with Moderate-to-Severe Genital Psoriasis. – I1F-MC-RHBQ(1) April 2016- May 2018 PI: SAF Phase: Sponsor: Boehringer Ingelheim BI 655066 versus Ustekinumab and placebo comparators in a Randomized Double-Blind Trial for Maintenance use in Moderate to severe plaque type psoriasis-2 (U1tIMMa-2) - 1311.28 March 2016 - November 2017 Sponsor: Evidera/Eli Lilly and Company PI: SAF Phase: 4 Cognitive Interviewing of the Subcutaneous Administration Assessment Questionnaire (SQAAQ) in Patients with Moderate to Severe Plaque Psoriasis – EVA-18225 February 2016 - June 2016 Phase: 3 Sponsor: Promius Pharma, LLC PI: KWD A Randomized, Double-Blind, Vehicle-Controlled, Multicenter, Parallel Group Study of the Efficacy and Safety of DFD-06 Cream in the Treatment of Moderate to Severe Plaque Psoriasis for 14 Days - DFD06-

Sponsor: Baxalta US, Inc./Baxalta Innovations GmbH PI: SAF

CD-005

November 2015 to September 2016

A Phase III Randomized, Double-blind, Multicenter Study to Evaluate Efficacy, Safety, and Immunogenicity of an Adalimumab Biosimilar (M923) and Humira® in Subjects with Moderate to Severe

Phase:3

Chronic Plaque-type Psoriasis – 911401 October 2015 to October 2017

Sponsor: Eli Lilly and Company PI:SAF Phase: 3 A Multicenter, Randomized, Double-Blind Study Comparing the Efficacy and Safety of Ixekizumab Dosing Regimens in Patients with Moderate-to-Severe Plaque Psoriasis - I1F-MC-RHBP August 2015 to June 2017 Sponsor: Corrona, LLC Phase: 1 Corrona Psoriasis Registry - Corrona PSO-500 July 2015 to Present Sponsor: UCB Biopharma, SPRL / Dermira, Inc. Pl: SAF Phase: 3 A Phase III, Multicenter, Randomized, Double-Blind, Parallel-Group, Placebo-and-Active-Controlled Study Followed by a Placebo-Controlled Maintenance Period and Open-Label Follow-up to Evaluate the Efficacy and Safety of Certolizumab Pegol in Subjects with Moderate to Severe Chronic Plaque Psoriasis - PSO003 May 2015 to Present Sponsor: Amgen, Inc. PI: KWD A Prospective, Observational Study to Estimate the Proportion of Subjects With Plaque Psoriasis who Achieve Complete Clearance on Biologics - 20120363 May 2015 to April 2017 Sponsor: TOLMAR, Inc. PI:SAF Phase: 3 A Double-Blind, Randomized, Parallel-Group, Vehicle-Controlled, Multicenter Study Comparing TOLMAR Calcipotriene Ointment, 0.005% to Reference Listed Drug in the Treatment of Plague Psoriasis – TOL2707A March 2015 to June 2016 Sponsor: Amgen, Inc. PI: SAF Phase: 4 A Single-arm Study to Assess the Immunogenicity and Safety of Etanercept Produced Using a Modified Process in Subjects With Plaque Psoriasis. Phase 4 Study - 20101177 February 2015 to March 2016 Sponsor: Pfizer, Inc. PI: A Phase II, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate Safety and Efficacy of PF-04965842 in Subjects with Moderate to Severe Psoriasis – B7451005 November 2014 to September 2015 Sponsor: Janssen Research and Development, LLC PI: SAF Phase: 2 A Phase II Multicenter, Randomized, Double-blind, Placebo-Controlled Trial to Evaluate Toreforant (JNJ-38518168) for the Treatment of Subjects with Moderate to Severe Plaque type Psoriasis -38518168PSO2001 November 2014 to January 2016 Sponsor: Janssen Research and Development, LLC PI: SAF Phase: 3 A Phase III, Multicenter, Randomized, Double-blind Study to Evaluate the Efficacy and Safety of Guselkumab for the Treatment of Subjects With Moderate to Severe Plaque-Type Psoriasis and Inadequate Response to Ustekinumab - CNTO1959PSO3003 November 2014 to July 2016

Sponsor: Janssen Research and Development, LLC PI: SAF Phase: 3

A Phase III, Multicenter, Randomized, Double-blind, Placebo and Active Comparator-controlled Study Evaluating the Efficacy and Safety of Guselkumab in the Treatment of Subjects with Moderate to

Kenneth W. Dawes, MD

Severe Plaque-type Psoriasis Incorporating Randomized Withdrawal and Retreatment – CNTO1959PSO3002

November 2011 1 7

November 2014 to Present

Sponsor: Novartis Institutes for Biol	Medical PI:	Phase:
A Randomized, Double-Blind, Placebo a	and Positive Controlled, Sir	ngle and Multiple Dose Study to assess
the safety, tolerability, pharmacokinetics	and pharmacodynamics of	of CJM112 in chronic plaque-type
psoriasis patients – CCJM112X2101	, and production of a great mass of	
November 2014 to January 2016		
November 2014 to January 2010		
Sponsor: Hexal AG/Sandoz, Inc.	PI: SAF	Phase: 3
A Randomized, Double-Blind, Multicente	or Study to demonstrate ex	
and immunogenicity of a biosimilar adal	imumab (CD2017) and Uu	mira® in nationts with moderate to
		milas in patients with moderate to
severe chronic plaque-type psoriasis - (	3P17-301	
July 2014 to July 2016		
O A	PI:	Phase:
<b>Sponsor: Amgen, Inc.</b> A Study to Assess the Clinical Meaning	fulness and Interpretability	
A Study to Assess the Clinical Meaning	umess and interpretability	a placua parioria 20120126 (UDA
psoriasis symptom severity over the cou	arse of treatment for chrom	c plaque psoriasis – 20130120 (1117A
1603A)		
May 2014 to February 2016		
	Dr.	Dhaga?
Sponsor: AbGenomics	PI:	Phase:2
Efficacy, safety, tolerability, and pharma	cokinetics of multiple dose	es of AbGn-166H administered by
intravenous infusion to patients with mo		aque psoriasis (randomized, double-
blind, placebo-controlled) – 2014.002.01	1	
May 2014 to April 2015	•	
Sponsor: Novartis Pharmaceuticals	PI: SAF	Phase: 3
A 52-week, Multicenter, Randomized, D	louble-Blind Study of subct	utaneous secukinumab to demonstrate
efficacy as assessed by Psoriasis Area	and Severity Index at 16 w	eeks of treatment compared to
ustekinumab and to assess long-term s	afety, tolerability and effica	cy in subjects with moderate to severe
plaque psoriasis - CAIN457A2317	,	•
May 2014 to November 2016		
may 2011 to Hovelines, 2010		
Sponsor: Janssen Research and De	velopment PI:	Phase: 1
Exploratory Genetic Study in Subjects v	vith Moderate to Severe Ps	soriasis - NOCOMPOUNDPSO0001
March 2014 to September 2014		
maron 2014 to coptomico, 2014		
Sponsor: Amgen, Inc.	PI:	Phase:
A Comparison of Psoriasis Symptom Se		Quality of Life in Patients With Clear
and Almost Clear Levels of Skin Improv	rement - 20130127 (HRA 1	1889A)
October 2013 to August 2014	CHICHE 20100121 (11101)	1000/19
October 2013 to August 2014		
Spanner Novartic Pharmacouticals	PI: KWD	Phase: 3
Sponsor: Novartis Pharmaceuticals A Randomized, Double-Blind, Placebo-	Controlled Multicenter Stu	
weeks of secukinumab 150 and 300 mg	n a condita access safety	tolerability and long-term efficacy unite
weeks of secukinumap 150 and 500 mg	J S.C. and to assess salety,	MAETA 2242
80 weeks in subjects with moderate to s	severe fiaii psoriasis – CAli	N45/A2513
September 2013 to April 2017		
	DI. VIVO	Dhana 3
Sponsor: Novartis Pharmaceuticals	PI: KWD	Phase: 3
A Randomized, Double-Blind, Placebo-	Controlled, Multicenter Stu	ay to demonstrate the eπicacy at 16
weeks of secukinumab 150 and 300 mg	ງ s.c. and to assess safety,	tolerability and long-term efficacy up to
80 weeks in subjects with moderate to	severe palmoplantar psoria	isis – CAIN457A2312
September 2013 to April 2017		
*		

Sponsor: Maruho North American, Inc. PI:

Phase: 3

A Randomized, Vehicle-Controlled, Double-Blind, Parallel Group, Multi-Center Phase III Study to Evaluate the Safety and Efficacy of M518101 in Subjects with Plaque Psoriasis – M518101-US02 *August 2013 to September 2015* 

PI: Sponsor: AbGenomics BV Phase: Efficacy, safety, tolerability, and pharmacokinetics of multiple doses of AbGn-168H administered by intravenous infusion to patients with moderate to severe chronic plaque psoriasis (randomized, doubleblind, placebo-controlled) - 2012.005.01 May 2013 to April 2014 Sponsor: Eli Lilly and Company PI: Phase:3 Pharmacokinetic Evaluations of Ixekizumab following Subcutaneous Administration Using Prefilled Syringe or Auto-Injector in Patients with Moderate-to-Severe Plaque Psoriasis – I1F-MC-RHBL April 2013 to October 2013 Sponsor: Eli Lilly and Company PI: SAF Phase: 3 A 12-Week Multicenter, Randomized, Double-Blind, Placebo-Controlled Study Comparing the Efficacy and Safety of LY2439821 to Etanercept and Placebo in Patients with Moderate to Severe Plaque Psoriasis with a Long-Term Extension Period – I1F-MC-RHBC February 2013 to Present Sponsor: Merck Sharp & Dohme Corp. PI:SAF Phase: 3 A 64-Week, Phase III, Randomized, Placebo-Controlled, Parallel Design Study to Evaluate the Efficacy and Safety/Tolerability of Subcutaneous SCH 900222/MK-3222, Followed by an Optional Long-Term Safety Extension Study, in Subjects With Moderate-to-Severe Chronic Plague Psoriasis – MK-3222-010 January 2013 to Present Sponsor: Novartis Pharmaceuticals PI: SAF Phase: 3 A Multicenter, Double-Blind and Open Label, 4-year Extension Study of subcutaneous secukinumab in prefilled syringes, assessing long-term safety, tolerability and efficacy in subjects with moderate to severe chronic plaque-type psoriasis treated with either a fixed dose regimen or on a retreatment at start of relapse regimen - CAIN457A2304E1 November 2012 to October 2017 Sponsor: Novartis Pharmaceuticals PI: SAF Phase: 3 A Multicenter, Double-Blind, Randomized Withdrawal Extension Study of subcutaneous secukinumab in prefilled syringes to demonstrate long-term efficacy, safety and tolerability up to 4 years in subjects with moderate to severe chronic plaque-type psoriasis completing preceding psoriasis phase III studies with secukinumab - CAIN457A2302E1 October 2012 to November 2017 Sponsor: Celgene Corporation PI: SAF Phase:3B A Phase IIIb, Multicenter, Randomized, Placebo-Controlled, Double-Blind, Double-Dummy, Study of the Efficacy and Safety of Apremilast (CC-10004), Etanercept, and Placebo, in Subjects with Moderate to Severe Plaque Psoriasis - CC-10004-PSOR-010 September 2012 to July 2015 Sponsor: Novartis Translational Sciences PI: Phase: 2 Phase II Randomized Double Blinded Placebo-Controlled, Multiple-Dose regimen study to assess the rate of histological clearance and effect on molecular pathways as well as on biomarkers of 12 months secukinumab 300 mg s.c. treated patients with chronic plaque-type psoriasis - CAIN457A2223 August 2012 to May 2015

Phase III Study to Evaluate the Efficacy and Safety of Induction and Maintenance Regimens of

Sponsor: Amgen, Inc.

Brodalumab Compared With Placebo and Ustekinumab in Subjects With Moderate to Severe Plaque

Psoriasis: AMAGINE-3 - 20120104

March 2011 to March 2012

August 2012 to December 2015 Phase: 2 Sponsor: Leo Pharmaceuticals A Phase II Study comparing treatment with LEP 90100 with betamethasone dipropionate in LEO 90100 vehicle and calcipotriol in LEO 90100 vehicle in subjects with psoriasis vulgaris - LEO 90100-7 May 2012 to December 2012 Sponsor: Leo Pharmaceuticals Phase: 2 PI: A Phase II Study comparing treatment with LEO 90100 with calcipotriol plus betamethasone ointment, LEO 90100 vehicle and ointment vehicle in subjects with psoriasis vulgaris - LEO 90100-35 May 2012 to November 2012 PI: KWD Sponsor: Stiefel Laboratories, Inc. A Phase I, Open-Label, Multicenter Study to Evaluate the Safety, Tolerability, Pharmacodynamics, and Pharmacokinetics of Calcipotriene Foam, 0.005%, Applied Under Maximal-Use Conditions in Adolescent Subjects (Ages 12 to 16 Years) with Plague Psoriasis – STF 115750 March 2012 to August 2017 Sponsor: Eli Lilly and Co., Inc. Phase: 3 PI:SAF A Multicenter Study with a Randomized, Double-Blind, Placebo-Controlled Induction Dosing Period Followed by a Randomized Maintenance dosing Period and a Long-Term Extension Period to Evaluate the Efficacy and Safey of LY2439821 in Patients with Moderate-to-Severe Plaque Psoriasis - I1F-MC-RHAZ February 2012 to Present Sponsor: Janssen Research and Development, Inc. Pl: Phase: 2 A Phase II Multicenter, Randomized, Placebo- and Active-Comparator-Controlled, Dose-Ranging Trial to Evaluate CNTO 1959 for the Treatment of Subjects with Moderate to Severe Plaque-type Psoriasis -CNTO1959PSO2001 January 2012 to November 2013 Phase: 3 Sponsor: Novartis A Randomized, Double-Blind, Multicenter Study of subcutaneous secukinumab, assessing Psoriasis Area and Severity Index (PASI) response and maintenance of response in subjects with moderate to severe chronic plaque-type psoriasis on either a fixed dose regimen or on a retreatment at start of relapse regimen. (SCULPTURE) - CAIN 457A2304 October 2011 to September 2013 Sponsor: Novartis A Randomized, Double-Blind, Double-Dummy, Placebo Controlled, Multicenter Study of subcutaneous secukinumab to demonstrate efficacy after twelve weeks of treatment, compared to placebo and etanercept, and to assess the safety, tolerability and long-term efficacy up to one year in subjects with moderate to severe chronic plaque-type psoriasis. (FIXTURE) - CAIN457A2303 September 2011 to October 2013 Sponsor: Pfizer A Phase III Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study of the Efficacy And Safety Of 2 Oral Doses Of Cp-690,550 In Subjects With Moderate To Severe Chronic Plaque Psoriasis -A3921078/A3921061 April 2011 to October 2016 Phase: 2B Sponsor: Maruho A Randomized, Placebo-Controlled, Double-Blind, Parallel Group, Multi-Center Phase IIb dose finding study of M518101 in plaque psoriasis patients - M518101-US01

Sponsor: Schering-Plough/Merck	PI:	Phase: 2
A Phase II, Randomized, Double-Blinded, Plac Study of Subcutaneous SCH 900222 in Subjec P05495	cebo-Controlled, Parallel-Design, Dose-Rai	nge Finding
December 2010 to January 2013		
Sponsor: LEO Pharma Calcipotriol plus betamethasone dipropionate dipropionate in the topical suspension vehicle, topical suspension vehicle alone in psoriasis v September 2010 to July 2011	calcipotriol in the topical suspension vehic	
Sponsor: Celgene Corporation	PI:SAF	Phase: 3
A Phase III, Multicenter, Randomized, Double- Apremilast (CC-10004) In Subjects With Mode August 2010 to October 2016	Blind, Placebo-Controlled, Efficacy And Sa	afety Study Of
Sponsor: Wyeth	PI:	Phase: 1
A Phase I, Single Dose Study of the Safety, To Clinical Activity of ILV-095 Administered Subco April 2010 to September 2011		
Sponsor: Amgen	PI:	Phase: 3
A Phase III, Randomized, Double-Blind, Place Adding Methotrexate to Etanercept in Subjects February 2010 to February 2011		
Sponsor: Astellas Pharma Inc.	PI:	Phase:
Sponsor: Astellas Pharma Inc. Assessment and Tracking of Long-term Alefac August 2009 to September 2012	ept (LFA-3lgG1 Fusion Protein) Safety (AT	LAS)
Sponsor: Celgene Corporation	PI:	Phase: 2B
A Phase Ilb, Multicenter, Treatment-Arm Blind Apremilast (CC-10004) In Subjects Who Comp PSOR-005 – CC-10004-PSO-005E April 2009 to December 2010		
Sponsor: Eli Lilly and Company	PI:	Phase: 1
A Phase I, LY2439821 (Anti-IL-17 Humanized Subjects with Psoriasis Vulgaris – I1F-MC-RH, January 2009 to June 2010	Antibody) Multiple-Dose Safety and Tolera AG	ibility Study in
Sponsor: Abbott Laboratories	PI:	Phase:
Sponsor: Abbott Laboratories A 10-Year, Post-marketing, Observational Student Plaque Psoriasis (ESPRIT) – P10-023 November 2008 to Present	dy of HUMIRA® (Adalimumab) in Patients	with Chronic
Sponsor: Celgene Corporation  A Phase IIb, Multicenter, Randomized, Double Safety Study of Apremilast (CC-10004) in Subj 10004-PSO-005  October 2008 to January 2010	-blind, Placebo-controlled, Dose-Ranging,	
Sponsor: Novo Nordisk	PI:	Phase: 1
A Phase I, Randomized, Double-Blind, Placebo		

NN8226-1848

October 2008 to January 2011

of Doxercalciferol Capsules in the Treatm	ntrolled, Dose-Rangi	Phase: ng Study to Assess the Efficacy and Safety Moderate to Severe Chronic Plaque
Psoriasis – HECTPSO2507  August 2008 to 2009		
Sponsor: Centocor, Inc.  A Multicenter, Open Registry of Patients v Including Biologics (PSOLAR) – C0168Z0 May 2008 to Present	<i>PI:</i> with Psoriasis Who <i>I</i> 03	Phase: Are Candidates for Systemic Therapy
Sponsor: Abbott Laboratories A Phase III, Multicenter, Randomized, Do and Safety of ABT-874 to Etanercept and Psoriasis – M10-114  March 2008 to 2009	<i>PI:</i> puble-blind, Placebo- l Placebo in Subjects	Phase: 3 controlled Study Comparing the Efficacy s with Moderate to Severe Chronic Plaque
Sponsor: Abbott Laboratories A Phase III Multicenter, Open-Label Cont Subjects who completed a Preceding Pso March 2008 to March 2012	tinuation Study in Mo	Phase: 3 oderate to Severe Chronic Plaque Psoriasis 3T-874 - M10-016
Sponsor: Genentech, Inc.  A Phase IV Randomized, Double-Blind, F XXXXX in Adult Patients with Moderate to	Pl: Placebo Controlled S	Phase: 4 tudy To Evaluate the Safety and Efficacy of priasis with Involvement of the Scalp.
March 2008 to 2009	, 0010101 Idda01 00	710010 7101 1170 COMP
Sponsor: Abbott Laboratories Open-label Study of Adalimumab in Subjet Phototherapy. November 2007 to November 2009	<i>PI:</i> ects Who Have a Su	Phase: 3 b-optimal Response to Systemic Therapy or
Sponsor: Abbott Laboratories A Phase III, Multicenter, Randomized, Do Efficacy of Two Dosing Regimens of ABT Plaque Psoriasis. October 2007 to October 2009	<b>PI:</b> puble-Blind, Placebore-874 to Placebo in S	Phase: 3 -Controlled Study Comparing the Safety and Subjects with Moderate to Severe Chronic
Sponsor: Wyeth A Phase I, Ascending Multiple Dose Stud Pharmacodynamics, and Clinical Efficacy Subjects With Psoriasis October 2007 to June 2010	· <i>PI:</i> ly of the Safety, Tole y of ILV-094 Adminis	Phase: 1  Prability, Pharmacokinetics,  Itered Subcutaneously or Intravenously to
Sponsor: Centocor, Inc.  A Phase III, Multicenter, Randomized Stu Moderate to Severe Plaque Psoriasis. (To March 2007 to October 2009	<i>PI:</i> idy Comparing CNT( 12)	Phase: 3 O 1275 and Etanercept for the Treatment of
Sponsor: Amgen, Inc. Observational Post-Marketing Safety Sur (OBSERVE) July 2006 to Present	<i>PI:</i> veillance Registry of	Phase: Etanercept for the Treatment of Psoriasis.
Sponsor: Genentech, Inc. A Phase IV Randomized, Double-Blind, F	<i>PI:</i> Placebo-Controlled S	Phase: 4 Study to Evaluate the Efficacy and Safety of

1.0 mg/kg Efalizumab in Adult Subjects with Chronic Moderate or Worse Plaque Psoriasis Who Have Had an Inadequate Response to an Anti-TNF Agent July 2006 to August 2007 Sponsor: Galderma Laboratories, L.P. PI: Phase: 4 A Phase IV, Open-Label Multicenter Community-Based 4-Wk Trial to Assess Efficacy, Tolerance to Tx & Patient Satisfaction w/ CLOBEX® Spray When Used as Mono- or Add-on Therapy to Existing Systemic/Topical Agents for Tx of Plaque Psoriasis February 2006 to June 2006 Sponsor: Centocor, Inc. Phase: 3 A Phase III Trial Evaluating the Efficacy and Safety of CNTO1275 in the Treatment of Subjects with Moderate to Severe Plaque-type Psoriasis. (T09) January 2006 to December 2011 Sponsor: Genentech, Inc. Phase: 4 A Phase IV Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of 1.0 mg/kg Efalizumab in Adult Patients with Moderate to Severe Plaque Psoriasis Involving the Hands and/or Feet January 2006 to April 2007 Sponsor: Centocor, Inc. Phase: 3 A Phase III, Multicenter, Randomized, Double-blind, Placebo-controlled Trial Evaluating the Efficacy and Safety of CNTO 1275 in the Treatment of Subjects with Moderate to Severe Plaque-type to Severe Plaque-type Psoriasis (T08) January 2006 to July 2011 Sponsor: Abbott Laboratories A Phase II, Multi-Center, Randomized, Double-Blind, Placebo-Controlled Study Comparing the Safety and Efficacy of Subcutaneous Injections of ABT-874 vs. Placebo in Subjects with Moderate to Severe Chronic Plaque Psoriasis. December 2005 to September 2008 Sponsor: Astellas Pharma US, Inc. Phase: 3 A Phase III, Long-Term, Open Label Study to Evaluate the Safety of Twice-Daily Tacrolimus Cream-B in the Treatment of Psoriasis September 2005 to April 2007 Sponsor: Genentech. Inc. Raptiva Epidemiologic Study of Psoriasis Outcomes and Safety Events (RESPONSE) in Patients with Chronic Moderate to Severe Plaque Psoriasis. April 2004 to November 2009 Sponsor: Abbott Laboratories A Phase III, Multicenter Study of the Efficacy and Safety of Long-Term Adalimumab Treatment in Subjects with Moderate to Severe Chronic Plaque Psoriasis. October 2004 to December 2005 Sponsor: Centocor, Inc. PI: Phase: 3 A Phase III, Multicenter, Randomized, Double-blind, Placebo-controlled Trial Evaluating the Efficacy and Safety of Infliximab Induction Therapy Followed by Multiple Regimens of Maintenance Infliximab Therapy in Subjects with Plaque-type Psoriasis February 2004 to June 2005 Sponsor: Amgen, Inc. PI: A Multicenter, Open-Label, Prospective Study to Evaluate the Effectiveness and Safety of Etanercept in

the Treatment of Subjects with Psoriasis

March 2004 to November 2004

Sponsor: Fujisawa Healthcare, Inc.  A Phase III, Randomized, Double-Blind Stud	PI:	he Efficiency and Sefety of O	Phase: 3
FK506 Gel versus Gel Vehicle in the Treatm  March 2004 to November 2004	nent of Psoriasis	s	nice Daily 0.370
Sponsor: Centocor, Inc.  A Phase II, Randomized, Double-blind, Place Regimens with Subcutaneous CNTO 1275 (Moderate to Severe Psoriasis November 2003 to June 2005	<i>PI:</i> sebo-controlled, 'Human Monocl	Parallel Study of Single and lonal Antibody to IL-12) in S	Phase: 2 d Multiple Dosing ubjects with
Sponsor: Genentech, Inc.	PI:		Phase: 4
An Open-Label, Multicenter Study to Evalua Efalizumab in Adults with Plaque Psoriasis I September 2002 to March 2004	te the Safety of	1.0 mg/kg Subcutaneously lled in Study ACD2600g.	
Sponsor: Genentech, Inc.	PI:		Phase: 3B
A Phase IIIb, Randomized, Double-Blind, Pa Evaluate the Safety of 1.0 mg/kg Subcutane Severe Plaque Psoriasis Who Are Candidat September 2002 to January 2003	eously Administ	ered Efalizumab in Adults w	iter Study to vith Moderate to
Sponsor: Amgen, Inc.	PI:		Phase: 4
A Multicenter, Open-Label to Observe the E Psoriatic Arthritis July 2003 to August 2004	ffects of XXXX	X on Joint and Skin Disease	e in Subjects with
Sponsor: Novartis	PI: KWD		Phase: 3
A randomized, double-blind, placebo- and a subcutaneous secukinumab compared to pl weeks of treatment, and to assess the safet than 18years of age with severe chronic pla February 2018- October 2018	nctive controlled lacebo and etar ty, tolerability, a	nercept (in a single-blinded : .nd long-term efficacy in sub	arm) after twelve
Sponsor: Evidera	PI: SAF		Registry
Concept Elicitation and Cognitive Interviews 20259 December 2017- October 2018	Among Pediat	ric Patients with Plaque Pso	oriasis. – EVA-
Sponsor: Galderma	PI: SAF		Phase: 4
A Multicenter Open Label Uncontrolled Stude ointment applied twice daily for 26 weeks in mild to moderate plaque psoriasis. – RD.06 June 2016- August 2018	ı pediatric subje	erm safety and efficacy of ca locts (2 to 16 years and 11 m	alcitriol 3 mcg/g onths of age) with
Sponsor: Galderma R&D, LLC	PI:		Phase:
Pharmacokinetics and pharmacodynamics of under conditions of maximal use in pediatric RD.06.SPR.18104  April 2013 to February 2016	of calcitriol 3mc c subjects (2 to	g/g ointment applied twice of 12 years of age) with plaqu	daily for 14 days e psoriasis –
Sponsor: Regeneron	PI: SAF		Phase 3
An open-label extension study to assess the months to <18 years of age with Atopic deri August 2017- Present	e long-term safe	ety and efficacy of dupiluma 0-1434	b in patients ≥6

PI: KWD Sponsor: Janssen A Phase III, Multicenter, Randomized, Double-blind, Placebo-controlled Study Evaluating the Efficacy and Safety of Guselkumab Administered Subcutaneously in Subjects with Active Psoriatic Arthritis-CNTO1959PSA3002 July 2017- July 2018 Sponsor: Janssen PI: KWD Phase:3 A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy and Safety of Guselkumab Administered Subcutaneously in Subjects with Active Psoriatic Arthritis including those Previously Treated with Biologic Anti-TNFa Agent(s): CNTO1959PSA3001 July 2017- July 2018 Sponsor: AbbVie PI: SAF Cross-Sectional Observational Study Evaluating Clinical Specialty Setting as Determinant of Management in Patients with Psoriatic Arthritis - H15-457 March 2017- October 2017 Sponsor: Janssen Research and Development PI: SAF Phase: 2A A Phase IIa, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy and Safety of Guselkumab in the Treatment of Subjects With Active Psoriatic Arthritis -CNTO1959PSA2001 April 2015 to March 2017 Sponsor: Janssen Research and Development Pl: A Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Golimumab, an Anti-TNFa Monoclonal Antibody, Administered Intravenously, in Subjects with Active Psoriatic Arthritis – CNTO148PSA3001 August 2014 to September 2015 Sponsor: Novartis Pharmaceuticals PI: KWD Phase: 3 A Phase III. Randomized, Double-Blind, Placebo-Controlled Multicenter Study of subcutaneous secukinumab in autoinjectors, to demonstrate efficacy at 24 weeks and to assess the long term safety. tolerability and efficacy up to 3 years in subjects with active Psoriatic Arthritis - CAIN457F2318 June 2014 to September 2018 Sponsor: Celgene Corporation A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Efficacy and Safety Study of Two Doses Of Apremilast (CC-10004) In Subjects With Active Psoriatic Arthritis And A Qualifying Psoriasis Lesion - CC-10004-PSA-004 January 2011 to December 2012 Sponsor: Centocor, Inc A Phase III Multicenter, Randomized, Double Blind, Placebo Controlled Trial of Ustekinumab, a Fully Human Anti IL -12p40 Monoclonal Antibody, Administered Subcutaneously in Subjects With Active Psoriatic Arthritis and Previously Treated With Biologic Anti-TNF Agent(s) - CNTO1275PSA3002 November 2010 to November 2012 Sponsor: Centocor, Inc. PI: Phase: 3 A Phase III, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial of Ustekinumab, a Fully Human Anti-IL-12/23p40 Monoclonal Antibody, Administered Subcutaneously, in Subjects With Active Psoriatic Arthritis – CNTO1275PSA3001 February 2010 to August 2013 Sponsor: Centocor, Inc.

A Phase II, Multicenter, Randomized, Double-blind, Placebo-controlled Trial of XXXXX a Fully Human

Anti-IL-12 Monoclonal Antibody, Administered Sub-Cutaneously, in Subjects with Active Psoriatic Arthritis.

January 2006 to November 2007

PSI: SAF Phase: 2 Sponsor: Lilly Protocol J1P-MC-KFAD(a) A Phase 1, Double-Blind, Randomized, Placebo-Controlled, Multiple-Dose Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of Subcutaneous LY3471851 in Patients with Atopic Dermatitis September 2019- Present PSI: SAF Sponsor: Pfizer Protocol Number B7451050: A PHASE 3B RANDOMIZED, DOUBLE-BLIND, DOUBLE DUMMY, ACTIVE CONTROLLED MULTI-CENTER STUDY ASSESSING THE EDICACY AND SAFETY OF ABROCITINIB COMPARED WITH DUPILUMAB IN ADULT PARTICIPANTS ON BACKGROUND TOPICAL THERAPY WITH MODERATE TO SEVERE ATOPIC DERMATITIS January 2020- Present Phase: 2/3 PI: SAF Sponsor: Galderma RD.o6.SPR.118380 Protocol Title: A Randomized, Double-Blind, Placebo-Controlled Study to Assess Immunization Responses in Adult and Adolescent Subjects with Moderate-to-Severe Atopic Dermatitis Treated with Nemolizurnab December 2019- Present PI: KWD Sponsor: Rapt

Title: A phase 1, randomized, double-blind, placebo-controlled, single-does escalation, multiple-dose escalation, and food effect study of RPT193 in healthy subjects and patients with moderate to severe dermatitis

December 2019- Present

Sponsor: Abbvie PI: SAF Phase: 1
M16-049: An Open-lable Multiple-Dose Study to Evaluate the Pharmacokinetics, Safety and Tolerablility of Upadacitinib in Pediatric Subjects with Severe Atopic Dermatitis
October 2019- Present

Sponsor: Arcutis PI: KWD Phase: 2

TITLE: A Phase 2, 4-week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-151 Cream 0.05% and ARQ-151 Cream 0.15% Administered QD in Adolescent and Adult Subjects with Atopic Dermatitis

May 2019- Present

Sponsor: Galderma PI: SAF Phase: 2/3
RD,06.SPR.118161

A randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Nemolizumab (CD 14152) in Subjects with Moderate-to-severe Atopic Dermatitis

July 2019- Present

Sponsor: AbbVie PI: SAF Phase: 3b
Protocol M16-046: A Phase 3b Multicenter, Randomized, Double-Blind, Double-Dummy, Active

Protocol M16-046: A Phase 36 Multicenter, Randomized, Double-Billid, Double-Dufffry, Active Controlled Study Comparing the Safety and Efficacy of Upadacitinib to Dupilumab in Adult Subjects with Moderate to Severe Atopic Dermatitis

May 2019- Present

Sponsor: Arcutis PI: KWD Phase: 2

TITLE: A Phase 2, 4-Week, Parallel Group, Double Blind, Vehicle-Controlled Study of the Safety and Efficacy of ARQ-151 Cream 0.05% and AFQ-151 Cream 0.15% Administered QD in Adolescent and

Adult Subjects with Atopic Dermatitis July 2019- Present

March 2019 - Present

Sponsor: Sanofi/IQVIA PI: SAF Phase: **EVALUATION OF BIOMARKERS OF ATOPIC DERMATITIS IN PEDIATRIC PATIENTS** WHOSE DISEASE IS NOT ADEQUATELY CONTROLLED WITH TOPICAL PRESCRIPTION THERAPIES OR WHEN THOSE THERAPIES ARE NOT MEDICALLY ADVISABLE April 2019- Present Sponsor: Galapagos PI: KWD Phase: 2 MORE106-CL-204 A randomized, double-blind, placebo-controlled, multicenter Phase 2 study to evaluate the safety and tolerability of subcutaneous MOR 106 administered concomitantly with topical corticosteroids for eight weeks, in adult subjects with moderate to serve atopic dermatitis February 2019- Present Sponsor: LEO PI: SAF Phase: 1 LP0133-1181: A phase 1 open-label, multi-center, single-arm trial to evaluate the safety and pharmacokinetics (including MUsT) of twice daily topical application of digacetinin cream for 8 weeks in adults, adolescents, and children with moderate to severe atopic dermatitis February 2019- Present Sponsor: Pfizer PI: SAF Phase: 3 A PHASE 3. RANDOMIZED, DOUBLE BLIND, PLACEBO-CONTROLLED, MULTI-CENTER STUDY INVESTIGATION THE EFFICACY AND SAFETY OF PF 04965842 CO ADMINISTERED WITH BACKGROUND MEDICATED TOPICAL THERAPY IN ADOLESCENT PARTICIPANTS 12 TO <18 YEARS OF AGE WITH MODERATE-TO-SEVERE ATOPICAL DERMATITIS B7451036, site 1006 January 2019- Present Sponsor: Ralexar PI: KWD Phase: 2 A PHASE 2, RANDOMIZED, DOUBLE-BLIND, VEHICLE CONTROLLED, PARALLEL-GROUP STUDY TO EVALUATE THE SAFETY AND EFFICACY OF ALX-101 TOPICAL GEL ADMINISTERED TWICE DAILY IN ADULT AND ADOLESCENT SUBJECTS WITH MODERATE ATOPIC DERMATITIS Code Number: ALX-101-ATOP-204 March 2019 - January 2020 Sponsor: Kyowa Hakko PI: SAF 4803-006 - A Phase 2, Multicenter, Randomized, Double-blind, Parallel-group, Placebo-Controlled Study of an Anti-OX 40 Monoclonal Antibody (KHK4083) in Subjects with Moderate to Severe Atopic Dermatitis. December 2018- Present Sponsor: Kiniksa PI: KWD Phase: 1b A Phase Ib, Double-Blind, Randomized, Placebo-Controlled Study to Assess the Safety, Tolerability, and Pharmacokinetics of Single and Repeated Doses of KPL-716 October 2018- July 2019 Sponsor: Incyte PI: SAF A Phase 3. Double-blind, Randomized, 8-Week, Vehicle-Controlled Efficacy and Safety Study of Ruxolitinib Cream Followed by a Long-Term Safety Extension Period in Adolescents and Adults with Atopic Dermatitis

<u>Sponsor: Asana</u> <u>PI: KWD</u> <u>Phase: 2</u> A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PHASE 2 STUDY TO EVALUATE THE

EFFICACY, SAFETY, TOLERABILITY, AND PHARMACOKINETICS OF ASNOOZ IN SUBJECTS WITH SEVERE CHRRONIC HAND ECZEMA REFRACTORY TO TOPICAL CORTICOSTEROID THERAPY November 2018-Present

Sponsor: XBiotech PI: KWD A Phase II, Randomized, Double-Blind, Placebo-Controlled Study of Bermekimab in Patients with Moderate to Severe Atopic Dermatitis Number of Patient consent: 4 February 2020- Present PI: SAF Phase: 2 Sponsor: Qurient Q301-AD-P2-US002 A MULTICENTER, RANDOMIZED, PHASE 2, DOUBLE-BLIND, VEHICLECONTROLLED. PARALLEL GROUP COMPARISON STUDY TO EVALUATE THE SAFETY AND EFFICACY OF Q301 CREAM IN ADOLESCENTS AND ADULTS WITH MILD TO MODERATE ATOPIC DERMATITIS **Number of Patient Consent: 9** September 2018- January 2020 Phase: PI: KWD Sponsor: BMX A Randomized, Placebo-Controlled, Dose-Escalation Trial to Evaluate the Safety, Clinical Effects, and Systemic Exposure of a Topical Application of BMX-010 in Subjects with Atopic Dermatitis and Plaque **Psoriasis** Number of Patient consented: 6 August 2018- present Phase: 3 Sponsor: Abbvie PI: SAF Clinical Study Protocol M16-045: A Phase 3 Randomized, Placebo-Controlled, Double-Blind Study to Evaluate Upadacitinib in Adolescent and Adult Subjects with Moderate to Severe Atopic Dermatitis Number of Patients consented: 7 May 2018- Present Phase: 3 PI: KWD Sponsor: LEO Long-term extension trial for in patients previously treated with Tralokinumab monotherapy for moderate to severe atopic dermatitis. Number of Patient consented: 6 November 2018- Present PI: SAF Phase:3 Sponsor: Pfizer A PHASE 3 RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL GROUP, MULTI-CENTER STUDY TO EVALUATE THE EFFICACY AND SAFETY OF PF-04965842 MONOTHERAPY IN SUBJECTS AGED 12 YEARS AND OLDER, WITH MODERATE TO SEVERE ATOPIC DERMATITIS-Number of patient consented: 0 September 2018- June 2019 Sponsor: Sanofi PI: SAF Prospective, observational, longitudinal study in pediatric patients with moderate to severe atopic dermatitis whose disease is not adequately controlled with topical prescription therapies or when those therapies are not medically advisable- OBS15333 **December 2018-Present** Phase: 2 Sponsor: Asana PI: KWD A Phase 2, Multicenter, Open-Label Extension Study to Evaluate the long-term Safety, Tolerability and Efficacy of ASN002 in Subjects with Moderate to Severe Atopic Dermatitis.- ASN002AD-201-EXT November 2018- Present Phase: 3 Sponsor: Eli Lilly PI: SAF A Multicenter, Open-Label, Phase 3 Study to Evaluate the Efficacy and Safety of Baricitinib in Adult

Patients with Moderate to Severe Atopic Dermatitis - I4V-MC-JAIX

January 2019- Present

Dermatitis. C0341001 January 2018- Present

PI: SAF Sponsor: Pfizer Phase 3 A PHASE 3 RANDOMIZED WITHDRAWAL, DOUBLE BLIND, PLACEBO CONTROLLED, MULTI CENTER STUDY INVESTIGATING THE EFFICACY AND SAFETY OF PF 04965842 IN SUBJECTS AGED 12 YEARS AND OVER, WITH MODERATE TO SEVERE ATOPIC DERMATITIS WITH THE OPTION OF RESCUE TREATMENT IN FLARING SUBJECTS- B7451014 August 2018- Present PI: SAF Sponsor: Pfizer Phase: 3 A PHASE 3 RANDOMIZED, DOUBLE-BLIND, MULTI-CENTER, LONG-TERM EXTENSION STUDY INVESTIGATING THE EFFICACY AND SAFETY OF PF-04965842. WITH OR WITHOUT TOPICAL MEDICATIONS, ADMINISTERED TO SUBJECTS AGED 12 YEARS AND OLDER WITH MODERATE TO SEVERE ATOPIC DERMATITIS- B7451015 June 2018- Present Sponsor: Asana PI: KWD Phase: 2B A Randomized, Double-Blind, Placebo-Controlled, Phase 2B Study to Evaluate the Efficacy, Safety, Tolerability, and Pharmacokinetics of ASN002 in Subjects with Moderate to Severe Atopic Dermatitis ASN002AD-201 April 2018-September 2019 Sponsor: Eli Lilly PI: SAF Phase: 3 A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Phase 3 Study to Evaluate the Efficacy and Safety of Baricitinib in Adult Patients with Moderate to Severe Atopic Dermatitis. I4V-MC-JAIW April 2018- Present PI: SAF Sponsor: Novan Phase: 1b A Phase 1b Multi-Center, Double-Blind, Randomized, Vehicle-Controlled Study Assessing the Pharmacokinetics, Pharmacodynamics, Safety, and Tolerability of SB414 in Subjects with Atopic Dermatitis, NI-AD101 February 2018- June 2018 Sponsor: Dermira PI: SAF Phase: 2b A Randomized, Double-Blind, Placebo-Controlled, Dose-Ranging Trial to Evaluate the Efficacy and Safety of Lebrikizumab in Patients with Moderate to Severe Atopic Dermatitis. DRM06-AD01 February 2018- July 2019 Sponsor: Pfizer PI: SAF A Phase 3 Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multi-Center Study to Evaluate the Efficacy and Safety of PF-04965842 Monotherapy in Subjects Aged 12 Years and Older, with Moderate to Severe Atopic Dermatitis. B7451012 February 2018- May 2019 Sponsor: Dermavant PI: KWD Phase: 1b Open-Label Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of RVT-501 Topical Ointment in Pediatric Patients with Atopic Dermatitis, RVT-501-2007 February 2018 - August 2018 Sponsor: Pfizer PI: SAF A Phase 1, Randomized, Double-Blind, Therapy-Party Open, Placebo-Controlled, Dose Escalating Study to Evaluate the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of Single, and/or Mutliple Intravenous and/or Subcutaneous Doses of PF-06817024 in Healthy Subjects who may be Mildly Atopic. Subjects with Chronic Rhinosinusitis with Nasal Polyps, and Subjects with Moderate-Severe Atopic

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PI: SAF Phase: Observation Sponsor: Regeneron A PROSPECTIVE OBSERVATIONAL STUDY OF ADULT PATIENTS RECEIVING DUPIXENT® FOR ATOPIC DERMATITIS- R668-AD-1762 January 2018-March 2018 PI: KWD Phase: 2 Sponsor: Leo Tralokinumab monotherapy for moderate to severe atopic dermatitis: LP0162-1326 August 2017- October 2019 PI: SAF Sponsor: Regeneron A Randomized, Double-Blind, Placebo-Controlled Study To Investigate The Efficacy And Safety Of Dupilumab Monotherapy In Patients ≥12 To <18 Years Of Age, With Moderate-To-Severe Atopic Dermatitis: R668-AD-1526 August 2017-July 2018 PI: SAF Sponsor: Regeneron An Open-Label, Randomized, Actual Use Study of Dupilumab Auto-Injector Device in Patients with Atopic Dermatitis- R668-AD-1607 May 2017- April 2018 PI: SAF Sponsor: GSK A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Investigate the Efficacy and Safety of Mepolizumab Administered Subcutaneously in Subjects with Moderate to Severe Atopic Dermatitis- 205050 November 2016- January 2018 PI: KWD Phase: 2 Sponsor: Incyte A Phase II, Randomized, Dose-Ranging, Vehicle-Controlled and Triamcinolone 0.1% Cream- Controlled Study to Evaluate the Safety and Efficacy of INCB018424 Phosphate Cream Applied Topically to Adults with Atopic Dermatitis.- INCB18424-206 April 2017- May 2018 PI: SAF A Phase IIb Randomized, Double-Blind, Placebo-Controlled, Parallel, Multicenter, Dose-Ranging, Study to Evaluate the Efficacy and Safety Profile of PF-04965842 in subjects with Moderate to Severe Atopic Dermatitis.- B7451006 April 2016- May 2017 Sponsor: GlaxoSmithKline PI: SAF A Randomized, Blinded, Vehicle-Controlled, Dose-Finding Study of GSK2894512 Cream for the Treatment of Atopic Dermatitis - 203121 February 2016 to March 2017 Sponsor: Medimmune, Limited Phase: 2A PI: SAF A Phase IIa, Randomized, Double-Blinded, Placebo-Controlled Study to Evaluate the Efficacy and Safety of MEDI9929 in Adult Subjects with Moderate-to-Severe Atopic Dermatitis - D5240C00001 August 2015 to September 2016 Phase: 3 Sponsor: Regeneron Pharmaceuticals, Inc. Pl: SAF A Phase III, Randomized, Double-Blind, Placebo-Controlled Study Investigating the Efficacy and Safety of Multiple Dupilumab Dose Regimens Administered as Monotherapy for Maintaining Treatment Response in Patients with Atopic Dermatitis - R668-AD-1415 July 2015 to February 2017 Sponsor: Regeneron Pharmaceuticals, Inc. PI: SAF

An Open-Label Study of Dupilumab in Patients with Atopic Dermatitis Who Participated In Previous

Dupilumab Clinical Trials - R668-AD-1225

June 2015 to September 2017

November 2008 to August 2009

Sponsor: Regeneron Pharmaceuticals PI: SAF Phase: 3 A Phase III Confirmatory Study Investigating the Efficacy and Safety of Dupilumab Monotherapy Administered to Adult Patients with Moderate-to-Severe Atopic Dermatitis - R668-AD-1334 February 2015 to June 2016 Sponsor: Regeneron Pharmaceuticals, Inc. Pl: Phase: 2 A Randomized, Double-Blind, Placebo-Controlled, Study Investigating Vaccine Responses in Adults with Moderate to Severe Atopic Dermatitis Treated with Dupilumab - R668-AD-1314 September 2014 to December 2015 Sponsor: Anacor Pharmaceuticals, Inc. Phase: 3 A Multicenter, Open-Label Study of the Long-Term Safety of AN2728 Topical Ointment, 2% in the Treatment of Children and Adolescents (Ages 2-17 Years) With Atopic Dermatitis - AN2728-AD-303 February 2014 - November 2015 Sponsor: Anacor Pharmaceuticals, Inc. A Multicenter, Randomized, Double-Blind, Vehicle-Controlled Study of the Safety and Efficacy of AN2728 Topical Ointment, 2% in Children, Adolescents, and Adults (Ages 2 Years and Older) With Atopic Dermatitis - AN2728-AD-302 February 2014 - August 2015 Sponsor: Chugai Pharmaceutical Co., Ltd. PI: SAF Phase: 2 A Phase II, Randomized, Double-Blind, Placebo-Controlled, Multiple-Dose Study to Evaluate the Safety. Tolerability, and Efficacy of CIM331 in Atopic Dermatitis Patients Who Are Inadequately Controlled or Intolerant to Topical Therapy - CIM003JG November 2013 to October 2016 Sponsor: Anacor Pharmaceuticals, Inc. PI: Phase: An Open-Label Study to Determine the Safety, Tolerability, and Pharmacokinetic Profile of AN2728 Ointment in Adolescents with Atopic Dermatitis - AN2728-AD-203 May 2012 to November January 2013 Sponsor: Novartis PI: Phase: 1 A first-in-human Study to evaluate safety and tolerability of repeated topical administrations of BPR277 ointment in healthy volunteers, and safety, tolerability, and preliminary efficacy of multiple topical administrations of BPR277 in patients with atopic dermatitis and Netherton syndrome - CBPR277X2101 October 2011 to February 2013 Sponsor: Astellas Pharma Inc PI: KWD Phase: APPLES: A Prospective Pediatric Longitudinal Evaluation to Assess the Long-Term Safety of Tacrolimus Ointment for the Treatment of Atopic Dermatitis – FHI-03-0-161/FG-506-06-37 June 2010 to October 2012 Sponsor: Novartis PI: Phase: A Prospective 10 Year Observational Registry of Pediatric Subjects (Age Greater Than or Equal to Two to Age Less Than or Equal to 17 Years) With Atopic Dermatitis Who Have Used Pimecrolimus 1% Cream (PEER Registry) March 2010 to December 2012 Sponsor: Taro Pharmaceuticals USA, Inc./Novum PI: A Randomized, Double-Blind, Placebo Controlled, Parallel Design, Multiple-Site Clinical Study to Evaluate the Bioequivalence of Two Tacrolimus 0.1% Topical Ointment Formulations in Patients With Moderate to Severe Atopic Dermatitis – TACR-0707

itchilletti vi. Davios, ivid	D/
A Prospective, Randomized, Investigator-Blind, Controlled, Pilot Study Comparing The EpiCeram Device versus Conservative Standard of Care Therapy Utilizing Mid-Strengt	<u>Phase:</u> Effect of the h Topical Steroid
XXXXX in the Treatment of Atopic Dermatitis in Pediatric Subjects  November 2006 to May 2007	., , , , , , , , , , , , , , , , , , ,
Sponsor: Cutanea Life Sciences, Inc. PI: SAF  A Phase III Open-Label Extension Study to Evaluate the Long-Term Safety of Omigana Subjects with Rosacea - CLS001-CO-PR-006  December 2015 to March 2018	<u>Phase: 3</u> an Topical Gel in
Sponsor: Cutanea Life Sciences, Inc. PI:  A Phase II, Randomized, Vehicle-Controlled, Double-Blind, Multicenter Study to Evalua Efficacy of Three Once-Daily CLS001 Topical Gels Versus Vehicle Administered for 12 with Papulopustular Rosacea – CLS001-CO-PR-001 March 2013 to April 2014	Phase: 2 ate the Safety and ? Week to Subjects
Sponsor: Galderma Research and Development, Inc. PI:  A Phase III Randomized, Double-Blind, 12-week Vehicle-Controlled, Parallel-Group St efficacy and safety of CD5024 1% cream versus vehicle cream in subjects with papulo followed by a 40-week investigator-blinding extension comparing the long-term safety or cream versus azelaic acid 15% gel — RD.06.SPR-18171  March 2012 to September 2013	pustular rosacea,
Sponsor: Galderma  A Phase IV, Open-Label, Multicenter, Community-Based, 12-Week Trial Assessment of Safety, and Subject Satisfaction With Oracea® [Doxycycline, USP] Capsules 40 mg (3 Release & 10 mg Delayed Release Beads) When Used as Monotherapy or as Add-On Existing Topical Regimens for the Treatment of Rosacea – GLI.04.SPR.US10120  June 2009 to November 2009	u mg immediate
Sponsor: Medicis PI:	Phase: 4
R# Trial, Phase IV Evaluation of the Effectiveness of XXXXX in Patients with Rosacea  **December 2000**	
Sponsor: Symbio PI: KWD	Phase: 2
A Multicenter, Randomized, Double-Blind, Parallel-Group, Vehicle-Controlled Study of Efficacy of DFD-03 Lotion in the Treatment of Acne Vulgaris for 12 Weeks DFD-03-CE August 2017- July 2018	the Safety and
Sponsor: Foamix PI: KWD	Phase: 2
A Randomized, Double-Blind, Vehicle-Controlled Study to Evaluate the Efficacy and S Administration of FMX101 for 12 Weeks in the Treatment of Moderate-to-Severe Acne 22	afety of Topical Vulgaris FX2017-
July 2017- September 2018	
A Randomized, Double-Blind Study to compare the efficacy, safety and Long-term safe administration or FMX-101 for 1 year in the treatment of Moderate-to-Severe Acne Vul July 2016- April 2017	Phase: 3 ety of topical garis. FX2014-05
Sponsor: Valeant PI: KWD	Phase: 1B
A Phase Ib Open-Label, Randomized Study Evaluating the Absorption and Systemic F Topically Applied IDP-123 Lotion in Comparison with Tazorac Cream 0.1% in Subjects under Maximal Use Conditions. – V01-121A-501	Pharmacokinetics of

June 2016- March 2017

Sponsor: Dow Pharmaceutical Sciences PI: SAF Phase: 3 A Phase III, Multi-Center, Randomized, Double-Blind, Vehicle-Controlled, 2-Arm, Parallel Group Comparison Study Comparing the Efficacy and Safety of IDP-121 and IDP-121 Vehicle Lotion in the Treatment of Acne Vulgaris - V01-121A-302 October 2015 to May 2017 Sponsor: Ranbaxy PI: KWD Phase: 4 A Phase IV Open-Label Study Evaluating the Long-term Efficacy, Quality of Life, and Safety of ABSORICA® (isotretinoin) Capsules Administered Without Food in Patients With Severe Recalcitrant Nodular Acne - ABS1517LT February 2015 to April 2018 Sponsor: Allergan (North America) Phase: 3 A Safety and Efficacy Study to Compare Dapsone Dermal Gel with Vehicle Control in Patients with Acne Vulgaris - 225678-007 January 2014 to January 2015 Sponsor: Taro Pharmaceuticals A Multicenter, Double-Blind, Randomized, Vehicle-Controlled, Parallel-Group Study Comparing Taro Pharmaceuticals, Inc.'s Clindamycin Phosphate and Benzoyl Peroxide Gel, 1.2%/2.5% to the Reference Listed Acanya® (Clindamycin Phosphate and Benzoyl Peroxide) Gel, 1.2%/2.5%, and both Active Treatments to a Vehicle Control in the Treatment of Acne Vulgaris - CLBG1210 January 2013 to February 2014 Sponsor: Warner Chilcott A Randomized, Multicenter, Double-Blind, Placebo-controlled Study to Evaluate the Safety and Efficacy of 3 Different doses of a Novel Tetracycline, Compared to Placebo in Treatment of Facial Acne Vulgaris -PR-10411 May 2012 to December 2012 Sponsor: Dow Pharmaceutical Sciences, Inc PI: Phase: 2 A Phase II, Multicenter, Randomized, Double-Blind, Dose-Ranging Study to Evaluate IDP-107 Versus Placebo in the Treatment of Severe Acne Vulgaris with Nodules - DPSI-IDP-107-P2-02 August 2010 to June 2011 Sponsor: Stiefel, a GSK company PI: A Phase III, Multicenter, Randomized, Double-Blind, Vehicle-Controlled, Parallel-Group Study to Evaluate the Safety and Efficacy of Tazarotene Foam, 0.1%, in Subjects With Acne Vulgaris – W0260-301 October 2009 to January 2011 Sponsor: Cipher Pharmaceuticals PI: Phase: 3 A Double-Blind, Randomized, Phase III, Parallel Group Study Evaluating the Efficacy and Safety of CIP-Isotretinoin in Patients with Severe Recalcitrant Nodular Acne - ISOCT.08.01 October 2009 to October 2011 Sponsor: Stiefel Laboratories A Phase III, Multicenter, Randomized, Double-blind, Active and Vehicle-Controlled Study of the Safety and Efficacy of Duac Low-Dose Gel Versus Clindamycin Gel versus Benzoyl Peroxide Gel versus Vehicle Gel in Subjects with Acne Vulgaris - W0261-301 October 2008 to 2009 Sponsor: Novum Pharmaceutical Research PI:

A Randomized, Double-Blind, Multiple-Site, Placebo-Controlled Study Comparing XXXXX to XXXXX in

the Treatment of Moderate to Severe Acne Vulgaris.

Phase:

October 2007 to September 2008

January 2019- Present

Construction Colderno BSB Inc	PI:	Phase:
Sponsor: Galderma R&D Inc.  A Multi-Center, Randomized, Double Fixed-Combination of a Topical Retinant Corresponding Topical Gel Vehiloctober 2006 to June 2007	e-Blind, Parallel Group Study to noid and Benzoyl Peroxide 2.5%	Demonstrate Safety and Efficacy of a
october 2000 to dunia 2007		
Sponsor: Johnson & Johnson A Open-label, Community Based, Pr RETIN-A MICRO® (Tretinoin Gel) M September 2006 to June 2007	<b>PI:</b> hase IV Study to Assess Facial licrosphere, 0.04% or 0.1% in a	Phase: 4 Acne Improvement with Use of Pump Dispenser
Sponsor: Allergan	PI:	Phase: of Patients with Acne Vulgaris, Who
Do Not Want To or Are Unable to pa May 2006 to July 2006	articipate in the iPLEDGE Progra	am.
Sponsor: Concordia Clinical Research Phase IV, Open-Label, Multicented Treatment, and Subject Satisfaction March 2006 to June 2006	r, Community-based, 4-Week T	Phase: 4 rial Assessing Efficacy, Tolerance to
Sponsor: Elorac, Inc A Double-Blind, Randomized, Place Safety of Once Weekly High Dose C 1006-01-01 September 2015 to June 2017	PI: KWD bo-Controlled Dose-Ranging St Oral Finasteride in the Treatmen	Phase: 2 udy Evaluating the Efficacy and t of Severe Nodulocystic Acne - EL-
·	PI: KWD	Phase: 2/3
Sponsor: Novartis  Novartis Pharmaceuticals trial entitle controlled study to investigate the ef Spontaneous Urticaria (CSU) in ado December 2018- Present	ed: A multi-center, randomized, fficacy and safety of ligelizumab	double-blind, active and placebo- (QGE031) in the treatment of Chronic
Sponsor: Novartis Global Clinica	al Dev. PI: KWD	Phase: 2B
A Multicenter, Randomized, Double- of QGE031 as add-on therapy to inv Urticaria (CSU) – CQGE031C2201 July 2015 to June 2016	-Blind, Placebo and Active-Coni restigate the efficacy and safety	trolled Phase IIb Dose-Finding Study in patients with Chronic Spontaneous
Sponsor: Pfizer C2501007: A PHASE 2A, MULTICO CONTROLLED, 16 WEEK STUDY I 06700841 AND PF-06700847 IN AD SUPPURATIVA December 2019- Present	EVALUATING THE SAFETY AN	ND EFFICACY OF PF-06650833, PF-
Sponsor: Novartis	PI: KWD	Phase: 2/3
Novartis Pharmaceuticals trial entitle	1 year), safety, and tolerability	multicenter study assessing short (16 of 2 subcutaneous secukinumab does purative (SUNRISE)

Sponsor: XBiotech PI: KWD Phase: 2 2019-PT047: A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study of Bermekimab in Patients with Moderate to Severe Hidradenitis Suppurativa August 2019- Present Sponsor: ChemoCentryx PI: KWD Phase2 CL016\_168: A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Phase 2 Study to Evaluate the Safety and Efficacy of Avacopan in Subjects with Moderate to Severe Hidradenitis Suppurativa May 2019 - Present Sponsor: Target-Derm PI: KWD Phase: 2 CL016 168: A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Phase 2 Study to Evaluate the Safety and Efficacy of Avacopan in Subjects with Moderate to Severe Hidradenitis Suppurativa April 2019- Present Sponsor: Novartis Institutes for BioMedical PI: KWD Phase: 2 A Randomized, Double-Blind, Placebo-Controlled, Multiple-Dose Study to evaluate the clinical efficacy. safety, tolerability, dose relation, atopic etics and pharmacodynamics of CJM112 in moderate to severe chronic hidradenitis suppurativa patients - CCJM112X2202 July 2015 to February 2017 Sponsor: AbbVie PI:KWD Phase: An Observational, Multicenter Disease Registry to Evaluate Clinical Practice Trends and Outcomes in Adult and Adolescent Patients with Hidradenitis Suppurativa – UNITE – H13-147 May 2014 to February 2020 Sponsor: AstraZeneca PI: Phase:2A A Phase IIa, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Assess the Safety. Tolerability and Preliminary Efficacy of MEDI8968 in Subjects with Moderate to Severe Hidradenitis Suppurativa - D5440C00001 June 2013 to December 2014 Sponsor: Genentech. Inc. PI: KWD Phase: 4 A Phase IV, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Omalizumab Through 48 Weeks in Patients with Chronic Idiopathic Urticaria - ML29510 July 2015 to June 2017 Sponsor: Genentech A Phase III. Multicenter. Randomized, Double-Blind, Dose-Ranging, Placebo-Controlled Study to Evaluate the Efficacy, Response, Curation and Safety of Xolair (Omalizumab) in Patients With Chronic Idiopathic Urticaria (CIU) Who Remain Symptomatic Despite Antihistamine Treatment (H1) - Q4882q April 2011 to September 2012 Sponsor: Athenex PI: SAF Phase: 3 A Phase III, Double-Blind, Vehicle-Controlled, Randomized, Parallel Group, Multicenter, Efficacy and Safety Study of KX2-391 Ointment 1% in Adult Subjects with Actinic Keratosis on the Face or Scalp KX01-AK-004 October 2017- November 2019 Sponsor: Therapeutics Inc PI: KWD A Multicenter, Randomized, Double-Blind, Vehicle-Controlled, Parallel Group Comparison Study to

Determine the Therapeutic Equivalence of a Generic Ingenol Mebutate Gel, 0.015% and Picato Gel,

Kenneth W. Dawes, MD 0.015% in Subjects with Actinic Keratosis on the Face or Scalp 094-8152-301 July 2016 to May 2017

Sponsor:	LEO Pharma A/S	PI: SAF	Phase: 3
Efficacy ar	d Safety of Ingenol Meb	utate Gel in Field Treatment of Ac	tinic Keratosis on Full Face, Balding
	· •	n the Chest – LP0105-1032	
May 2015	to April 2017		
Cuanass	Perrigo UK FINCO Lin	nited Par Pl:	Phase: 3
A Multi-Co	nter Double-Blind Rand	Iomized Vehicle-Controlled Paral	lel-Group Study to Compare Perrigo
HK Finco I	ncenol Mehutate Tonica	I Gel 0 015% to Leo Pharma Inc. F	Picato® Topical Gel 0.015% (Ingenol
Mebutate	Fonical Gel 0.015%), and	d Both Active Treatments to a Veh	icle Control in the Treatment of
Actinic Ker	atosis on the Head Regi	on (Face or Scalp) - PRG-NY-14-	019
	15 to December 2015	,	
C	LEO Dharma A/S		Phase: 3
Sponsor:	LEO Pharma A/S	7% and 0.1% for actinic keratosis	applied once daily for three
consecutiv	e days on face/chest_sc	alp and trunk/extremities, respecti	vely – LP0084-1148
February	2015 to September 201	<b>5</b>	
-			D( 0
Sponsor:	Actavis Mid Atlantic, L	LC PI:	Phase: 3
A Multicen	ter, Randomized, Double	e-Blind, Vehicle-Controlled, Paralle	to Gol. 0.05% and Picato® Gel
Determine	tne Therapeutic ⊑quivai	ence of a Generic Ingenol Mebuta atosis on the Trunk or Extremities	_ 094-8151-301
	015 to January 2016	ALOSIS OF THE THIRK OF EXECUTION	004 0101 001
January 2	010 to January 2010		
Sponsor:	LEO Pharma A/S	PI:	<u> </u>
Safety and	efficacy of escalating de	oses of ingenol mebutate once dai	ly for two or three consecutive days
when used	i on full face, full balding	scalp or approximately 250 cm2 of	on the chest in subjects with actinic
keratosis	Part 1: A Phase 1, multid	centre, open-label, dose escalation	ı 2-week trial Part 2: A Phase 2,
		ind, parallel group, vehicle-control	led, 8-week trial – LP0105-1012
Decembe.	r 2013 to August 2014		
Spancari	Actavis Elizabeth LLC	: PI:	Phase:
A Multicen	ter Randomized Double	e-Blind, Vehicle-Controlled, Paralle	
Determine	the Therapeutic Equival	lence of Generic Imiguimod Crean	n, 2.5% and Zyclara™ (imiquimod)
Cream 2.5	% in Subjects with Actin	ic Keratoses – 094-3153-301	
	2013 to June 2014		
_	D II. O	Di.	Phase:
Sponsor:	h Long torm Follow-up	Study of Patients With Actinic Kers	Phase: atoses on the Head (Face or Scalp)
Who Have	Completed Day 57 in S	tudies PEP005-016 or PEP005-02	5 - PEP005-030
August 2	009 to January 2011	tadioo! El oco o lo o El oco re	
August 2	oo to danaary 2011		
Sponsor:	Peplin Operations	PI:	Phase: 2
A Phase I	Multi-Center, Randomi	zed, Parallel Group, Double-Blind,	Vehicle-Controlled Study to
Evaluate t	he Efficacy and Safety o	f PEP005 (Ingenol Mebutate) Gel,	0.05% in Patients with Actinic
	on Non-Head Locations	- PEP005-028	
July 2009	to January 2011		
Snoncor	Peplin Operations	PI:	Phase: 3
Δ Phase I	<i>r epiini Operations</i> Il Multi-Center, Randomi	zed, Parallel Group, Double-Blind,	Vehicle-Controlled Study to
Evaluate t	he Efficacy and Safety o	f PEP005 (Ingenol Mebutate) Gel,	0.15% in Patients with Actinic
Keratoses	on the Head (Face or S	calp) – PEP005-016	
June 200	9 to January 2011		
2			

PI:

Sponsor: Peplin Operations

Phase: 3

A Phase III, Multi-Center, Open-Label Study to Evaluate the Safety and Efficacy of PEP005 (Ingenol Mebutate) Gel, 0.05% in Patients With Actinic Keratoses on Non-head Locations (Trunk and Extremities) – PEP005-028

June 2009 to January 2011

Sponsor: Graceway Pharmaceuticals, LLC PI: A Phase IV, Open-Label Safety and Pharmacokinetic Study of Aldara(Imiguimod) Cream, 5% for One. Two, or Three Treatment Cycles to Surface Areas Greater Than 25 cm<sup>2</sup> With Actinic Keratosis September 2005 to June 2007 Sponsor: 3M Phase: 3B A Phase IIIb, Open-Label Effectiveness and Safety Study of Imiguimod 5% Topical Cream in the Treatment of Actinic Keratosis. April 2004 to August 2004 Sponsor: XOMA (US) LLC An Open-label Safety Extension Study of Gevokizumab in Active Inflammatory, Erosive Osteoarthritis of the Hand - X052161 September 2013 to February 2015 Sponsor: XOMA (US) LLC A Phase II Proof-of-Concept Study of Gevokizumab in Subjects with Inflammatory Erosive Osteoarthritis of the Hand - X052162 July 2013 to March 2014 Sponsor: XOMA (US) LLC A Phase II Proof-of-Concept Study of gevokizumab in active inflammatory, erosive osteoarthritis of the hand - X052160 May 2013 to March 2014 Sponsor: Fairbanks Institute for Health Multicenter Research Study to Build a Repository that will allow Researchers to Study Chronic Diseases in the Population of Central Indiana July 2013 to May 2014 Sponsor: Eli Lilly and Company Phase: A Randomized, Double-Blind, Placebo-Controlled Parallel Study with an Open-Label Extension to Assess the Impact of Testosterone Solution on Total Testosterone, Sex Drive and Energy in Hypogonadal Men -15E-MC-TSAT June 2013 to June 2015 Sponsor: Biogen PI: SAF Phase: 2 A 2-Part Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy and Safety of BIIB059 in Subjects with Systemic Lupus Erythematosus and Active Skin Manifestations and in Subjects with Active Cutaneous Lupus Erythematosus with or without Systemic Manifestations. 230LE201 August 2016- Present Sponsor: Janssen Research and Develop PI: Phase: A Cross-Sectional Study in Subjects With Active Cutaneous Lupus Erythematosus -NOCOMPOUNDLUN0001 June 2013 to October 2014 Sponsor: Pfizer PI: A Randomized, Subject and Investigator-Blinded, (Sponsor-Open), Placebo-Controlled dose Escalation

Study to Evaluate the Safety, Tolerability, and Preliminary Efficacy of Multiple Doses of PD 0360324 in

Subjects with Active Cutaneous Lupus Erythematosus - A6261008

January 2012 to July 2014

Sponsor: Celgene Corporation	PI:		Phase: 2
A Phase II, Pilot, Multicenter, Sequential Tolerability, Pharmacokinetics, Pharmac	, Ascending Dose sodynamics and Eff	icacy of CC-11050 in Subject	ts With Discoid
Lupus Erythematosus and Subacute Cut June 2011 to December 2012	aneous Lupus Ery	tnematosus – CC-11050-CLt	I-UUZ
Sponsor: Takeda Global Research ar	nd Dev _PI:		Phase: 3
A Multicenter, Randomized, Double-Blind Cardiovascular Outcomes of TAK-875, 5 Diabetes and with Cardiovascular Diseas	d, Placebo-Controll 50 mg in Addition to	o Standard of Care in Subject	s with Type 2
875_306 February 2013 to February 2014	·		
Sponsor: Merck & Co., Inc.	PI:		Phase: 3
A Phase III, Randomized Double-Blind, A and Safety of XXXXX for the Treatment September 2007 to October 2008	Active-Comparator	Controlled, Clinical Trial to S pe 2 Diabetes Mellitus	tudy the Efficacy
Sponsor: GlaxoSmithKline	PI:		Phase: 2B
A Phase IIb, 16-week, Parallel-Group, D Ranging Study to evaluate the efficacy, regimens of Albiglutide (GSK716155) wi 2 Diabetes Mellitus April 2007 to February 2008	safety and tolerabil	lity of multiple doses and mul	tiple treatment
Sponsor: Eli Lilly and Company	PI:		Phase:
The DURABLE Trial: Assessing the Dura March 2006 to October 2008	ability of Basal vs.	Lispro Mix 25 Insulin Efficacy	<i>.</i>
Sponsor: Novartis Pharmaceuticals	PI:		Phase:
A 12-week Treatment, Multi-Center, Rar Controlled Study to assess the efficacy, glycopyrronium bromide) in COPD patie January 2013 to May 2014	ndomized, Double-I safety, and tolerab	oility of QVA149 (indacaterol r	o and Active maleate /
Sponsor: Forest Laboratories	PI:		Phase: 3
Sponsor: Forest Laboratories A Phase III, Randomized, Double-Blind, Tolerability of 2 Doses of Aclidinium Bro Moderate to Severe, Stable Chronic Obs of the 2 Aclidinium Bromide Dose — LAS March 2010 to November 2010	mide Compared W structive Pulmonary	/ith Placebo for 12 vveeks in I	Patients with
Sponsor: Novartis	PI:		Phase: 3B
A Phase IIIb, Randomized, Double-Blind compare the efficacy and safety of the citotropium 18 µg once daily vs open laber chronic obstructive pulmonary disease – February 2009 to April 2010	combination of inda el tiotropium 18 μg	caterol 150 µg once daily with	h open label
Sponsor: Novartis	PI:		Phase:
A 12-week Treatment, Multicenter, Rand to Assess the Efficacy and Safety of XX February 2008 to August 2009	domized, Double-B	lind, Placebo Controlled, Par th Chronic Obstructive Pulmo	allel Group Study

Sponsor: Novartis	PI:	•	Phase: 2/3
A Phase II/III, 26-Week Treatment, Multic Controlled, Adaptive, Seamless, Parallel- Two Doses of Indacaterol (Selected From Obstructive Pulmonary Disease Using Bli o.d.) as Active Controls	center, Randomize Group Study to As n 75, 150, 300 & 6	ssess the Efficacy, Safety and 00 µg o.d.) in Patients With C	nmy, Placebo- d Tolerability of Chronic
March 2007 to February 2009			
Sponsor: GlaxoSmithKline A 6-month Safety and Benefit Study of inlinhaled fluticasone propionate in the treat asthma, Phase IV – SAS115358 September 2012 to October 2013			
Sponsor: GlaxoSmithKline A Safety and Efficacy Study of Inhaled Fluticasone Propionate in the Treatment of January 2012 to May 2014			
Sponsor: GlaxoSmithKline A Phase III, Long-Term, Randomized, Do Furoate/GW642444 Inhalation Powder Or Daily in Subjects with Asthma – HZA1068 March 2010 to November 2011	nce-Daily and Flut		
Sponsor: Merck and Co., Inc. Time and Motion Study of Allergen Immurand Canada – A-11107 June 2012 to April 2013	<i>PI:</i> notherapy in the U	Isual Care Environment in the	Phase: e United States
Sponsor: Merck and Co., Inc.	PI:		Phase: 2
A Phase II Randomized, Placebo-Control V212 in Adult Patients with Autoimmune I February 2012 to December 2012		Study the Safety and Immu	nogenicity of
Sponsor: Novartis	PI:		Phase:
A 6-month, Randomized, Active Compara Outcomes, Safety and Tolerability of Fing Sclerosis who are candidates for MS there - CFTY720DUS01 July 2011 to April 2012	olimod 0.5 mg/day	y in Patients with Relapsing F	orms of Multiple
Sponsor: Hisamitsu Pharmaceutical Co A Randomized, Double-Blind, Parallel-Gro Efficacy of HTU-520 in the Treatment of N Toenail – HTU-520-US01 June 2011 to May 2013	oup, Multicenter, F	Placebo-Controlled Study of t Pistal Subungual Onychomyco	Phase: he Safety and osis of the
Sponsor: Eli Lilly & Co. A Phase II study of LY900010 (LY245247 – I4K-MC-GPEC October 2010 to January 2012	<i>PI:</i> 3 + Tadalafil) in th	ne Treatment of Men With Ere	Phase: 2 ectile Dysfunction
<del>-</del>			
Sponsor: Eli Lilly & Co.	PI:	Shintonna IA LAAO LUUDA	Phase:
Biomarker Study of the Smoothened Path April 2010 to June 2010	way in Healthy Vo	olunteers – 14J-MC-HHBA	

Sponsor: Eli Lilly and Company A Phase II, Weight Loss Efficacy Study in Overweight/Obese Men and Women — I1L-MC-GAEB October 2009 to September 2010 Sponsor: Inhibitex A Phase II, Multicenter, Randomized, Double-Blind, Parallel-Group, Comparative Study of FV-100 vs. Valacyclovir in Patients with Herpes Zoster - INH-FV1-005 June 2009 to December 2010 Sponsor: GlaxoSmithKline PI: Phase: A Clinical Outcomes Study of Darapladib Versus Placebo in Subjects With Chronic Coronary Heart Disease to Compare the incidence of Major Adverse Cardiovascular Events (MACE) - LPL100601 February 2009 to August 2013 PI: Phase: Sponsor: Novartis An 8 Week Randomized, Double-Blind, Parallel Group, Multi-Center, Active Controlled Study to Evaluate the Antihypertensive Efficacy and Safety of Aliskiren Administered in Combination With Valsartan Versus Valsartan Alone in Patients With Stage 2 Systolic Hypertension and Type 2 Diabetes Mellitus -CSPP100A2409 November 2008 to June 2010 Sponsor: Pharming Technologies B.V. Phase: 2 A Phase II, Randomized, Placebo-Controlled, Double-Blind Study of the Safety and Efficacy of XXXXX for the Treatment of Acute Attacks in Patients with Hereditary Angioedema - C1 1205-01 July 2008 to January 2010 Sponsor: Eli Lilly and Company PI: A Phase I Study to Quantify the Number of Circulating Endothelial Cells in Patients with Severe Sepsis October 2007 to November 2009 Phase: 4 Sponsor: Pfizer PI: A Phase IV, Randomized, Double Blind, Parallel-Group Study of Cardiovascular Safety In Osteoarthritis Or Rheumatoid Arthritis Patients With Or At High Risk For Cardiovascular Disease Comparing Celecoxib With Naproxen And Ibuprofen (Precision) December 2006 to October 2016 Phase: 1 PI: Sponsor: Genentech, Inc. A Phase I, Double-Blind, Randomized, Placebo Controlled, Multicenter Study Evaluating the Safety and Tolerability of a Multidose Regimen of XXXXX Topically Applied to Superficial or Nodular Basal Cell Carcinoma. June 2004 to July 2006 Phase: 1/2 Sponsor: CoPharma A Phase I/II Pilot Study of the Safety and Efficacy of PEN203 in the Treatment of Superficial and Nodular Basal Cell Carcinoma of the Skin. December 2000 to December 2000 Phase: 3 Sponsor: Verrica PI: KWD COVE-2: A Phase 3, Double-blind, Randomized, Placebo-controlled Study to Evaluate the Efficacy, Safety, and Tolerability of VP-102 in Subjects with Common Warts (Verruca Vulgaris) November 2019- Present Phase: 3 PI: KWD Sponsor: Aclaris A PHASE 3 OPEN LABEL SAFTEY STUDY OF A-101 TOPICAL SOLUTION FOR THE TRATMENT OF COMMON WARTS

Dec 2018- March 2019

Aclaris	PI: KWD	Phase :3
A PHASE 3 RANDOMIZED, DOUBLE-BLIN	ND, VEHICLE-CONTROLLED, PAR	RALLEL GROUP STUDY
OF A-101 TOPICAL SOLUTION APPLIED A-101-WART-301	TWICE A WEEK IN SUBJECTS W	ITH COMMON WARTS
August 2018-November 2019		
Cutanea A Phase 3, Randomized, Double-Blind, Vel	PI: SAF	Phase: 3
Safety of CLS006 versus Vehicle in Subjective	its 2 years of age or older with Cuta	io Evaluate the Efficacy and aneous Common Warts.
CLS006-CO-PR-002.	<b>,</b>	
December 2017-January 2019		
Aclaris	PI: KWD	Phase: 2
A Randomized, Double-Blind, Vehicle-Con		101 Topical Solution
Applied Once A Week In Subjects With Cor August 2017- April 2018	mmon vvarts- A-101-vvart-202.	
Sponsor: RXI Pharmaceuticals  A Propositive Phase IIIs Study to Finducts	PI: SAF	Phase: 2A
A Prospective, Phase IIa Study to Evaluate (Samcyprone) on the Clearance of Verruca	the Επεσίνεness and Sarety of DF Vulgaris (Common Warts) in Subic	PCP Uintment act Ages 18-65 Vears RX-
SCP-1502	angune (Common viality in Subje	sorrigos to os todio, tot
July 2016 – September 2018		
Sponsor: Soligenix	PI: KWD	Phase: 3
A Phase III Multicenter, Randomized, Doub	le-Blind, Placebo Controlled Study	to Determine the Efficacy
of Topical SGX301 (Synthetic Hypericin) an Cutaneous T-Cell Lymphoma. HPN-CTCL-		n for the Treatment of
August 2016- Present	.01	
-		
Sponsor: Pfizer	PI: SAF	Phase: 3
B7981032: A PHASE OPEN- LABEL, MUL- SAFETY AND EFFICACY OF PF-06651600	H-CENTER, LONG-TERM STUDY N	INVESTIGATING THE
August 2019- Present		
Spanner Lilly	DI. CAE	<b>5</b> 4. • •
Sponsor: Lilly 14v-MC-JAIR	PI: SAF	Phase: 3
A multicenter, Randomized, Double-Blind, F	Placebo-Controlled, Phase 3 Study	to Evaluate the Efficacy
and Safety of Baricitinib in Adult Patients wi April 2019- Present	th Severe or Very Alopecia Areata	
April 2013- Fresent		
Sponsor: Pfizer	PI: SAF	Phase: 2B/3
A PHASE 2B/3 RANDOMIZED, DOUBLE-B TO INVESTIGATE THE EFFICACY AND SA	LIND, PLACEBO-CONTROLLED,	DOSE-RANGING STUDY
ALOPECIA AREATA (AA) SUBJECTS WIT	H 50% OR GREATER SCALP HAI	R LOSS
January 2019- Present		
Sponsor: Evidera	PI: KWD	Phase: Registry
Development of a New Outcome Measure for		r nade. regiony
September 2017- Present		
Sponsor: Pfizer	PI: SAF	Phase: 2A
A Phase IIa, Randomized, Double-Blind, Pla	acebo-Controlled, Multicenter Study	v to Evaluate the Efficacv
and Safety Profile of PF-06651600 and PF-066516000 and PF-06651600 and PF-06651600 and PF-06651600 and PF-06651600 and PF-066516000 and PF-066516000 and PF-06651600 and PF-06651600 and PF-06651600 and PF-06651600 and PF-06651600 and PF-06	บธ7บบชา in Subjects with Moderate	e to Severe Alopecia
February 2017- March 2019		

PI: KWD Sponsor: Incyte A Randomized, Double-Blind, Dose-Ranging Study of INCB018424 Phosphate Cream in Subjects With Vitiligo: 18424-211 October 2017- Present PI: SAF Phase: 3 Sponsor: Novan Protocol No: NI-MC301 A Phase 3 Multi-Center, Randomized, Double-Blind, Vehicle-Controlled, Parallel Group Study Comparing the Efficacy, Safety and Tolerability of SB206 and Vehicle Gel Once Daily in the Treatment of Molluscum Contagiosum April 2019- Present <u>Sponsor:</u> <u>N</u>ovan PI: SAF Phase: 2 A Phase 2 Multi-Center, Randomize, Double-Blind, Vehicle-Controlled, Ascending Dose Study of SB206 in Subjects with Molluscum Contagiosum. NI-MC201 January 2018- January 2019 PI: KWD Phase: 2 Sponsor: Mayne A Phase 2 Randomized, Mukti-center, Double-blind, Vehicle-controlled, 12-Week, Safety, Efficacy, and Systemic Exposure Study followed by a 12-Week Open-label Extension of Trifarotene (CD5789) Cream HE1 in Adults and Adolescents with Autosomal Protocol number 18-Ich-001 October 2019- Present Phase: 2/3 PI: KWD Sponsor: Brickell BBI-4000-CL-301: A Multicenter, Randomized, Double-Blind, Vehicle-Controlled Study to Evaluate the Safety and Efficacy of Topical Applied Sofpironium Bromide Gel, 15% in Subjects with Axillary Hyperhidrosis (the "Cardigan I Study") November 2019- Present

Sponsor: CastleBio Science PI: SAF Prospective Development and Validation of a Gene Expression Assay to Predict the Risk of Recurrence Disease in Cutaneous Squamous Cell Carcinoma August 2019- Present

#### Articles and Publications

Fretzin S., Dawes K. J Am Acad Dermatol 2005; 52:P182. Abstract P2745. Dermatofibrosarcoma Protuberans Treated with Mohs Micrographic Surgery: Cure Rates and Surgical Margins, Journal of Dermatologic Surgery and Oncology, June 1996.

#### License/Certifications

Board Certified in Dermatology, October 22, 1995 Board Certified in Internal Medicine, September 16, 1992, Certificate #146725 National Board of Medical Examiners, July 1, 1990, Certificate #374396 Indiana State License #01038446 **ACLS Certified** 

CITI Certification, May 2010, May 2012, June 2014, May 2015, May 2016, March 2017, March 2018, March 2022

#### **Professional Societies**

American Academy of Dermatology Indiana State Medical Association Indiana Academy of Dermatology, Secretary/Treasurer, 2010-2012 Indiana Academy of Dermatology, President, 2012 - 2014

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