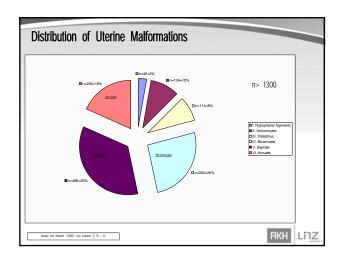


Introduction

- Clinically, this malformation of the female genital organs presents:
 - a rudimentary solid bipartite uterus with
 - solid vagina
 - Sometimes associated malformations (uterus bipartitus solidus rudimentarius cum vagina solida)



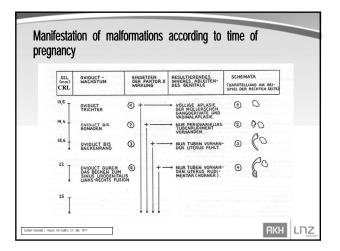
FIKH Linz



Causes of uterine malformations

- Failure of the development or incomplete fusion of Mullerian ducts the facilities of the uterus, cervix and upper vagina
- Period between the 10th and 17th embryonic weeks
- Exact causes for this malformation are still not known
- Familial clusters often observed

FIKH LINZ



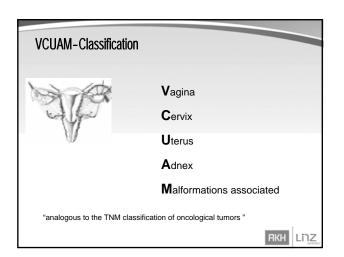
First descriptions of "MRKH"

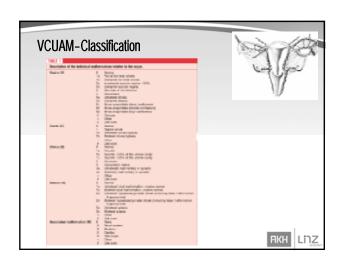
- 1829 Mayer Bonn anatomist and physiologist Mayer
- 1938 Rokitansky reported one case
- 1910 Kuester first time summarized and collected individual cases from the literature in a review paper
- 1961 Hauser 21 Case Descriptions on live patients (MRKH-Syndrome)

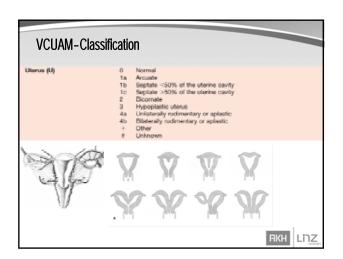
FIKH LINZ

Classification of **AFS Acien** FIKH LINZ

Classification of MRKH MRKH syndrome Associated malformations Tubes, ovaries, and renal system generated and developed Malformations in the ovary or renal system Malformations in the skeleton and/or heart; muscular Typical Atypical MURCS weakness, renal malformations MURCS = Müllerian aplasia, renal aplasia, and cervicothoracic somite dysplasia (association).









Higher incidence of linked malformations in siblings of Mayer-Rokitansky-Küster-Hauser-syndrome patients

M. Wottgerl, S. Brucker^{*}, S.P. Remor^{*}, P.L. Strisorl^{*}, R. Strick[†], A. Kellermann[†], B. Wallwiczer^{*}, M.W. Bockmann[†] and P. Oppell^{*}

[†] Sparines of Generality, Lelapse Universit Breath, Generalitations 27–21, D-8059 Edways, Generalities of Generality, Lelapse University, Edways (Generality, Edways, Generality, Gene

Organ system		MRSCH patients dangen + Tübingen)	Maine Regi per 10 000	stry (n = 40 063)	Pearson's chi-squared test		
		9		9			
Mosculoskeletal system	8"	7.76	237	2.37	P < 0.000		
Cadiovascular system	3"	2.91	147	1.47	P = 0.10		
Internal and external unspential system	26	1.94	154	1.54	P = 1.0		

Paticust No.: 1252, 2179, 3047, 3047, 3258, 3294, 3294, 4270. Paticust No.: 2007, 3416, 3258. Rations No.: 1617, 3881.

FIKH Linz

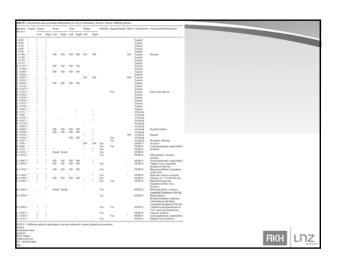


Table 3 Distribut per organ group v		ssociated malforms e).	tions in the li	BOOH group	os reported in	n the publish	ed literature	e (multig	rie desc	riptors	
First author, ref.	Patients (N)	Mathemation of the overy	Maturation of the	Changes in the	Changes in the	Changes in the	Inguinal homio	Heart	d Classification		
		tuber 1404	system	system	system			1			
Plevali (29) Griffin (6)	4	3	4 0	3	- 6 10	10	10	M.	0.5	1 2	5
Chervensk (20)	3	1	2	7	3	nd	nd	md	5	1	3-
School Connect	21	6	12	3	M	in the	4	-	26	ì	3
158	-										
Select (21)	36	nd o	nd	7 3	-di	md	5	100	25	5	
Arabinal (20) Yanan (20)	10 18 37	nd	nd .	ni .	nd	10	7	76	ú	3 0 10 9 3 6 12	ō
Rendoter (27)	37	No.	nd	10	3	nd	2	- 7	20	10	- 4
(mith [34]	39	nd	nd	93	3	md		710	10	9	- 3
Dansi (36) Reps (36)		10	nd 0	3	nd i	70	10	20	18 26 28	2	
Federal (27)	25	ě	nd	16	ò	10	76	76	36	13	- 3
Creates (16)	911	ī	nd	40	9	5	70	md	63	39	- 9
December (19)	47	nd	nd	11	red	nd	110	md	36	11	
Palistymulii [40] Oppwet	34	3	9	3	nd 19	rd.	- 1	7	25	.3	-3
9977	-	_			_		_	-	41		-
Total	524	(2%)	30 (8%)	(02%)	(12%)	(190	27	1750	306 (54%)	04%	101

Oppet et al., Chinal aspects of MRRH-Syndrone. Hom Report 03-2006	Linz
Essential examinations	
Chromosome analysis	
[Diagnostic laparoscopy]	
Hormone status (LH, FSH, E2)	
Renal ultrasonography	
• . ,	
FIKH [LINZ
Recommended additional examinations	
examinations	
Ultrasound of the vaginal vestibule, rectum	
MRI of the kidneys, small pelvis (or alternatively intravenous	
pyelography)	-
Ovarian biopsy	
ЯКН	LDZ websit

Principal symptoms for supplementary examinations to clarify associated malformations

Symptoms	Diagnostic clarification
Urinary incontinence	Urodynamics
Quick exhaustion	Myography, echocardiography
Skeletal malformations	Radiography, computed tomography if appropriate
Hearing loss	Audiography

FIKH Linz