Term	Definitions						
OAPS	Patients with at least one obstetric (and no thrombotic) clinical criteria						
	+ one of the laboratory criteria						
TAPS	Patients with vascular thrombosis (± obstetric) clinical criteria + one of						
	the laboratory criteria						
aPL carriers	Patients with aPL positivity without any clinical manifestations						
snAPS	Patients with obstetric clinical criteria for APS with persistent negativity						
	for aPL.						
	a) Patients with obstetric criteria for APS and low aPL titre						
ncAPS	b) Patients with obstetric criteria for APS but lacking persistent aPL						
	positivity c) Patients with a combination of non-criteria clinical						
	manifestations and one of the laboratory criteria (table 2)						
	Patients with symptoms and persistent positivity of antinuclear						
UCTD	antibodies on two separate occasions for at least one year that does						
	not meet criteria for any specific autoimmune rheumatic disease						
ncSLE	Patients with some clinical and immunological features of SLE (3 of 4						
	ACR/SLICC criteria) but not fulfilling the SLE classification criteria ²⁸⁻²⁹						
ncSS	Patients with some clinical and immunological features of Sjogren						
	Syndrome (SS) but not fulfilling the SS classification criteria ⁴⁰						
ncSSc	Patients with some clinical and immunological features of systemic						
	sclerosis (SSc) but not fulfilling the SSc classification criteria ⁴¹						
НС	Pregnant patients without fulfilling criteria for an autoimmune disease						
APO	Adverse Pregnancy Outcomes included were: pre-eclampsia, new onset						
	hypertension after 20 weeks gestation and proteinuria; haemolysis elevated						
liver enzymes and low platelet count (HELLP) syndrome; preterm l weeks gestation; recurrent first trimester pregnancy loss (>2); spo							
abortion (<20 weeks gestation); stillbirth (>20 weeks gestation); fetal							
	(spontaneous abortion plus stillbirth); intrauterine growth restriction (IUGR						
	below normal growth; small for gestational age (SGA), birth weight below the						
	10th percentile for the appropriate gestational age.						
Standard OAPS	1 \ 0 1/1						
treatment	heparin at prophylactic dosage according to current guidelines 42-44						
Non-standard	The use of more than 100 mg daily of LDA, intermediate or therapeutic						
OAPS treatment	doses of LMWH or other non-evidence-based medication for OAPS such						
	as hydroxychloroquine, steroids or statins						

Table 1. Definitions of the used terms in this systematic review

Non-clinical criteria	Non-laboratory criteria		
1. Two unexplained miscarriages			
2. Three non-consecutive miscarriages	1. Low positive aCL or aβ2GPI present between		
3. Late pre-eclampsia	the 95th and 99th centiles		
4. Placental abruption, late premature	2. Presence of intermittent aPL in women with		
birth, 5. Two or more unexplained in	classical clinical manifestations of obstetric APS		
vitro fertilisation failures			

Table 2: Non-criteria clinical and laboratory manifestations of OAPS. Definitions proposed by Arachchillage DR et $\rm al^{31}$

evidence	Moderat	, mo	Low	Low	Low	Very low	Low	, oo
findings	Main obstetric complications were higher in APS than ncAPS. Similar obstetrics outcomes were found in both groups when treated with Moderat the standard regime for APS e	TAPS group had the highest rate of complicated pregnancies, However, not statistical difference in terms or APD between both APS groups, notAPS groups, notAPS corriers. Iow		The overall risk for both vascular and obstetrical complications related is similar in nc4PS compared with APS patients	LB rate in nc4PS patients treated with LDA was significantly higher than those nc4PS who were not treated and the group with unexplained miscarriages	LB rate among women with ncAPS was significantly lower that among those with APS following anticoagulant therapy. APO were more common in APS than ncAPS.	noLNS vs APS vs aPL carriers vs HC-> APO: All aPL groups (noAPS, APS and aPL carriers) Z1vc26vs6vs698; UGR: 12,5vs19vs17vs2%; Pec: had an overall risk of APO compared with HC, the APS group having the greatest risk.	Adverse pregnancy Outcomes did not show significant difference between aPL carriers and normal pregnancies, and between APS and NCAPS. Better pregnant outcomes of aPL positive women, include APS and NCAPS, were achieved in our study with treatment based on IDA blus IMWH.
Pregnancy outcomes (ncAPS/APS/controls)	ndAPs vs APS> PB-5vs 28%, REM.15vs 39%; SA.7vs 25%, ST.6vs 23%; Pec (<44vvs).3vs 18%; IUGR (<44vvs).3vs 16; HELLP (<44vvs).1vs 3%	ncAPS vs TAPS vs OAPS vs aPL carriers-> APO-9rs24vs18vs18%, SA: 40vs50vs41vs14%, ST:20vs25vs18vs43%, PB: 40vs25vs32vs43%, SGA: 20vs0vs9vs14%,	ncAPs vs APS (untreated pregnancies) —> REM: 41vs36%,ST: 50vs44%, Pec: 19vs20%; UGR: 20vs36%. NcAPs vs APS (after standard treatment) —> REM: 0vs0%; ST.5vs0%; Pec: 3vs0%; UGR: 3vs12%, PB:13vs12%	ncAPS vs APS> pregnancy morbidity. The overall risk for both vascular at 42xs44%, REM: 16xs16%, ST: 12xs19%; UGR: obstetrical complications related is 6xs6%, Pec. 5xs2%, HELLP.2xs0%; CASP.0xs4% ncAPS compared with APS patients.	LB rate in nc4PS julients treated with in nc4PS patients treated with significantly higher than those nc4PS uniterated group; 50%1, LB in the unexplained were not treated and the group with miscarriage group (untreated); 76% unexplained miscarriages.	LB rate among women with ncAPS was significantly lower that among those with AI ncAPS vs APS (after anticoagulant therapy) -> following anticoagulant therapy, APO were that among those with AI more common in APS than ncAPS.	ncAPS vs APS vs aPL carriers vs HC> APO: 25ss42bsc38ss5,6%; ST-8vs14ss6vs0,6%; PB: 21vs26ss6svs6%; UGR: 12,5vs19vs17vs2%; Pecc 6vs14,5vs9vs1,5%	ncAPSvs4PSvsHC -> ST_2Ns4,5vsO%, PB: 7vs14vs8%; IUGR: \$5vs16vs4%, Pec:
Type of treatment	a) ncAPs-vuntreated vs treated: 24vs76% (LDA alone: 13%; LMWH: 4%; LDA+LMWH: 59% b) (SR-47%) APS-vuntreated vs treated 23vs77% (LDA alone: 10%; LMWH alone: 4%; LDA+LMWH: 63% (SR: 45%)	All patients were treated with LDA (98%) and/or LMMH (76%). JancAPS-> LDA alone (43%); LMWH alone: 0%; JDA-LMWH (8R): 57%; LDA-LMWH (therapeutic dose): 6%; HCC, 5%; steroids: 5%. JOAPS-> LDA alone: 13%; LMWH alone: 7%; JOAPS: 10%; SSE (20%): 14%; LMWH alone: 0%; JOAPS: 10%; SSE (20%): 14%; LMWH (therapeutic SSE): 15%; LMMH (therapeut	a) ncAPS treated patients—> LDA alone: 8%; LDA-LIMWH with SR: 84% b) APS treated patients —> LDA alone: 9%; LDA-LIMWH SR: 84%.	y groups> untreated vs A4.38%; anticoagulant 24%; HCQ.19%; prednisone ths during pregnancy: 29%)	>6	Anticoagulant therapy (ND)	a) no495->- LDA-31%, LMWH: 6%; LDA-LIMWH: 4%; HCQ: 8%; steroids: 8%. b) APS->- LDA-15%; SER-100%; LDA-LIMWH: 85,5%; HCQ: 14,5%; steroids: 14,5%. cteroids: 14,5%; cteroids: 14,5%; LMWH: 4%; LDA-LIMWH: 0%; HCQ: 7,5%; steroids: 11%.	a) ncaPS-> LDA:NF, LMWH: NF, HCQ; 34%; steroids: 60%. b) APS-> LDA: NF, LMWH: NF, HCQ: 7%; steroids: 88%.
Titer of aPL in ncAPS patients	Persistent low positivity for aCL IgM and/or IgC and/or IgC and/or IgC and/or IgC in titre 20-39 units (95-99th centile), or intermittent aPL positivity in titre >40 units	aCL igM and/or lgG and/or b2GPI IgM and/or lgG in titre >99th centile, present on two or more occasions at least 12 weeks apart	aCL IgM and/or IgG and/or b2GPI IgM and/or IgG in titre 90-99th centile		one determination of aCL IgM and/or igG and/or b2GPI IgM and/or IgG in titre >99th centile	one determination of aCL IgM and/or IgG and/or b2GPI IgM and/or IgG in titre >99th centile	Intermittent or low positive (7- 10U/ml) positive aCl and/or b2GPl low-titre if 7-10U/mL	¥
	Subgroup A (27%): nc clinical criteria* + nc laboratory criteria Subgroup B (27%): Sydney clinical criteria + nc laboratory criteria Subgroup C (45%): Sydney laboratory criteria + nc clinical	Sydney Jaboratory criteria + nc Clinical criteria	aCL IgM and/or IgG and/or b2G Sydney clinical criteria + persistent IgM and/or IgG in titre 90 99th low aPt titre	aCL IgM and/or IgG and/or b3GPl Sydney clinical criteria + persistent IgM and/or IgG in titre 20-40 units ov <99th centile ov <99th centile	Intermittent positivity for a laboratory criteria + two or three recurrent pregnancy loss	Sydney clinical criteria + intermittent positivity for a laboratory criteria	incomplete clinical but fulfilling laboratory criteria or laboratory Sydney criteria with incomplete clinical criteria	*
pregnancies	Multicenter retrospective and 1640 patients (ncAPS:640; Allijotas J (11) prospective study APS:1000J/5189 pregnancies	200 patients Triple centre (ncAPS,397,APS,432,0APS,585, aPL retrospective study carriers:341/289 pregnancies	Sydney clinic Sydney clinic Tetrospective study 57 patients (ncAPS,32; APS,25) NF low aPL titre	243 patients (117 ncAPS; 126 APS)/	740 patients (ncAPS:68; unexplained miscarriages: 672)/ 740 pregnancies	19 patients (ncAPS:7 , APS:12)/14 pregnancies	948 patients (ncAPS-48; APS-62; aPL carriers-53; HC-785 948 pregnancies	Single center 270 patients (ncAPS: 91;APS:44;
Study design pregnancies	Multicenter retrospective and prospective study	Tiple centre retrospective study		Ofer-Shiber S Single center 243 (21)	740 patients (nc/ Single center unexplained mis retrospective study 740 pregnancies	Single center 19 patients (retrospective study pregnancies	Single center prospective study	Single center
Author	Alijotas J (11)	Fred M (19)	Mekinian A (20)	Ofer-Shiber S (21)	Sugiura O (22)	Lo H (23)	Spinillo A (24)	Xi E (25)

Table 3. Pregnancy outcomes in ncAPS patients. Original studies of pregnancy outcomes in ncAPS patients.ncAPS: Non-Criteria Antiphospholipid Syndrome; OAPS: Obstetric APS; TAPS: Thrombotic-APS; CAPS: Catastrophic APS; HC: Healthy Controls; APO: adverse Pregnancy Outcomes; LB: Live Birth; PB: Preterm Birth <37 weeks; SA:Spontaneous Abortion (<20 weeks); ST: Stillbirth (>20 weeks); PL: Pregnancy Loss (SA+ST); SGA: Small for Gestational Age; Pec: Preeclampsia; HELLP: hemolysis, elevated liver enzyme and low platelet count syndrome; IUGR: IntraUterine Growth Restriction; LDA: Low Dose Aspirin; LMWH: Low Molecular Weight Heparin; AP: Abruptio Placentae; REM: Recurrent Early Miscarriage; LPL: Late Pregnancy Loss (third trimester); NF: No found.

Nc clinical criteria* are described in table 2.

Author	Study design	N ^e patients (UCTD/CTD/controls)/ pregnancies	Pregnancy outcomes (UCTD/CTD/controls)	Summary of findings	Grade of evidence
Mosca M (15)	Single center prospective study	20 UCTD patients/ 25 pregnancies	LB:88%; rate of APO: 36% ; flare during pregnancy: 24 %	UCTD patients had a greater risk of flare during pregnancy.	Low
Grava C (17)	Single center prospective study	41 patients (25 UCTD/ 16 SS)/46 pregnancies	LB: 96%; SA:4%. Incidence of CHB: 4%	A higher incidence of CHB in UCTD and SS patients with positive anti-Ro/SSA antibodies compared with SLE patients	Low
Spinillo A (29)	Single center prospective study	796 patients (131 UCTD; 68 ARD; 597 HC)/ NF	UCTD vs CTD vs HC> Pec: 14vs22vs3%; IUGR: 16vs26vs4%; SGA: 17vs26vs8%, PB: 5vs7vs3%	Overall pregnancy complications such as Pec, SGA or IUGR, were higher in CTD and UCTD compared to HC. Although, this risk was even higher in the CTD group, the burden of pregnancy complications was similar between UCTD and CTD groups.	moderate
Zucchi D (30)	Single center retrospective study	81 UCTD patients / 100 pregnancies	LB:89%; SA: 11%; SGA: 10%; PB:9%; flares during pregnancy/puerperium: 13%	Patients with stable UCTD have similar rate of APO than the expected for the general population, except for PB which was higher in their cohort. Those UCTD patients with disease activity at conception and/or positive anti-dsDNA antibodies had an increased risk of APO	Low
Spinillo A (31)	Single center prospective study	123 patients (41 UCTD;82 HC)/123 pregnancies	UCTD vs HC-> rate of APO: 39vs13%;Pec:7vs1%; PB: 10vs1%	UCTD patients had an increased risk of APO compared with HC	Low
Radin M (32)	Multicenter retrospective study	133 UCTD patients/ 244 pregnancies	LB:79%; SA: 20%; ST: 1%; SGA: 12%; PB: 17%; IUGR: 3%; Pec:2%; gestational hypertension: 5%; CHB: 1%	UCTD patients had an increased risk of APO compared to the expected for the general population, specially for PB and SGA. In addition, SA and ST were strongly associated with the presence of aPL and anti-ENA antibodies (mainly anti-Ro/SSA antibodies).	Low
Brucato A (33)	Multicenter prospective study	100 patients (19 UCTD;25 SS; 53 SLE; 1 MCTD; 1 APS; 1 SSc)/ 118 pregnancies	100 patients (19 UCTD;25 SS; 53 SLE; 1 MCTD; 1 APS; 1 SSc)/ Incidence of CHB (UCTD vs SS vs SLE vs MCTD vs SP cs SV SSC vs APS): 5vs4vs0vs0vs0vs0vs0%	UCTD and SS groups with positive anti-Ro/SSA antibodies had a higher incidence of CHB than the SLE group	Low

Table 4. Pregnancy outcomes in UCTD patients. Original studies of pregnancy outcomes in UCTD patients.

UCTD: Undifferentiated Connective Tissue Disease; ARD: Autoimmune Rheumatic Disease; CHB: Complete Heart block; SS: Sjogren Syndrome; HC: Healthy Controls; APO: adverse Pregnancy Outcomes; LB: Live Birth; PB: Preterm Birth <37 weeks; SA: Spontaneous Abortion (<20 weeks); ST: Stillbirth (>20 weeks); PL: Pregnancy Loss (SA+ST); SGA: Small for Gestational Age; Pec: Preeclampsia; IUGR: IntraUterine Growth Restriction; NF: Not found.