

Table (1): Response of total steroid-resistant patients (initial and late) to alternative therapies concerning their histopathological spectrum

Alternative therapies	Types of response			Total
	Complete remission	Partial remission	No remission	
Cyclophosphamide	3 (9.1%)	0	12 (36.4%)	15 (45.5%)
MCD	0	0	1 (100%)	1
FSGS	0	0	9 (100%)	9
MesPGN	2 (66.7%)	0	1 (33.3%)	3
No biopsy	1 (50%)	0	1 (50%)	2
Cyclosporine	9 (27.3%)	3 (9.1%)	14 (42.4%)	26 (78.8%)
MCD	1 (20%)	1 (20%)	3 (60%)	5
FSGS	5 (29.4%)	2 (11.8%)	10 (58.8%)	17
MesPGN	3 (75%)	0	1 (25%)	4
Mycophenolate mofetil	0	0	8 (24.2%)	8 (24.2%)
MCD	0	0	2 (100%)	2
FSGS	0	0	4 (100%)	4
MesPGN	0	0	2 (100%)	2
Combined therapy	0	0	4 (12.1%)	4 (12.1%)
MCD	0	0	2 (100%)	2
FSGS	0	0	2 (100%)	2
Mendoza protocol with cyclophosphamide	1 (3%)	0	0	1 (3%)
FSGS	1 (100%)	0	0	1
Steroid only	0	0	1 (3%)	1 (3%)
FSGS	0	0	1 (100%)	1
Total	13 (39.4%)	3 (9.1%)	17 (51.5%)	33 (100%)

MCD, minimal change disease; **FSGS**, focal segmental glomerulosclerosis; **MesPGN**, mesangio-proliferative glomerulonephritis

Table (2): Outcome of idiopathic steroid-resistant nephrotic syndrome

Outcome	Number and percentage of patients
Persistent proteinuria	20 (60%)
MCD	5 (25%)
FSGS	13 (65%)
MesPGN	1 (5%)
No biopsy	1 (5%)
ESRD	4 (12%)
FSGS	4 (100%)
Deaths	5 (15%)
MCD	2 (40%)
FSGS	3 (60%)

MCD, minimal change disease; **FSGS**, focal segmental glomerulosclerosis; **MesPGN**, mesangio-proliferative glomerulonephritis

Table (3): Histopathological spectrum of idiopathic steroid resistant nephrotic syndrome in the various studies

Studies	Histopathological patterns					
	FSGS	MesPGN	MCD	MPGN	MN	Others
Our study (Upper Egypt)	58%	23%	19%			
Bakr et al, 2014 ⁽¹⁴⁾ (Lower Egypt)	19%	26%	49 %			6%
Seif et al, 2013 ⁽¹⁵⁾ (Lower Egypt)	30%	2%	24%	8%	9%	27%
Alharthi et al, 2016 ⁽¹⁶⁾ (Saudia Arabia)	62%	5%	14%	14%	5%	
Shah SS et al, 2015 ⁽¹⁷⁾ (Pakistan)	10%	82%	5%			3%
Pradhan SK et al, 2013 ⁽¹⁸⁾ (India)	30%	0%	45%	2.5%	5%	17.5%
Inaba A et al, 2016 ⁽¹⁹⁾ (Japan)	32%	11%	57%			
Banaszak B and Banaszak P, 2012 ⁽²⁰⁾ (Boland)	22 %	56%	11%	11%		
Zagury A et al, 2013 ⁽²¹⁾ (Brazil)	54%	7%	39%			

MCD, minimal change disease; **FSGS**, focal segmental glomerulosclerosis; **MesPGN**, mesangiocapillary glomerulonephritis; **MPGN**, membranoproliferative glomerulonephritis; **MN**, membranous nephropathy