

## Cephadrine の臨床経験

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Cephadrine (CED) は新たに開発された Cephalosporin 系抗生剤で、経口的にも非経口的にも使用できる特長を有している。私どもは本剤の経口剤(カプセル剤)を14例に使用した。

## 1. 対 象

私どもの病院で治療した扁桃感染症3例、肺炎5例、尿路感染症6例、計14例である。

## 2. 使 用 法

1日量は1gのものが最も多く、症状に応じて1.5~2gを用いたものもある。使用日数は7~38日で、総量は7~55.5gに及んだ。

## 3. 成 績 (Table 1)

## 1) 扁桃感染症

発熱、咽頭痛を主訴とし、扁桃に膿苔、あるいは膿栓を認め、白血球増加を伴った急性扁桃炎の3例はCED 1日量1g内服により円滑に治癒し、自覚症状は2~4日後に消失し、検査所見も再検時には正常化しており、全例有効であった。

## 2) 肺 炎

肺炎の5例は1日量1~1.5gの本剤内服により自覚症状はおおむね1週間以内に消失したが、検査所見は約半数が1週間以内に正常化せず、胸部X線像は1例を除き陰影の消失に14~37日を要し、治癒が遅延する傾向がみられ、有効3例、やや有効2例と判定した。

## 3) 尿路感染症

起炎菌は全例大腸菌で、ディスク法による Cephalexin (CEX) の感受性にはいずれも卍であった。

発熱、腰痛と尿所見を伴い、急性腎盂腎炎と診断した2例はCED 1日量1~2g内服により、自覚症状、尿中細菌、尿所見は1週間以内に消失、改善し、有効であった。

急性膀胱炎と診断した3例と妊婦の無症候性細菌尿の1例はCED 1日量1~1.5g内服により症状、細菌尿、尿所見は速やかに消失、改善し、有効であった。

## 4) 副 作 用

私どもがCEDを用いた14例中に自覚的な副作用の出現したものは1例も認めなかった。症例4は本剤使用中に10%前後の好酸球増加を認めたが、薬疹はなく、治療終了後に減小した。GPT, GOT, アルカリフォスファターゼは症例3~9でCED使用前後に検索したが、異常を認めなかった。

## 4. 考 案

CEDの抗菌力、内服時の吸収はCEXとほぼ等しく、CEXと同程度の臨床効果を期待しうる。すなわち、軽症感染症に対しては1日量1g程度でも効果が期待され、私どもの症例でも急性扁桃炎、大腸菌性尿路感染症の大部分は1日1g内服により有効であった。しかし、私どもの肺炎に対するCED治療成績は胸部X線像の改善が遅く、効果は十分に満足できなかった。このことは1日量が少なかったためと考えられ、中等症感染症には1日量2~3gが適当と思われた。

なお、本剤の多くの細菌に対する最小発育阻止濃度は注射剤であるCephaloridineやCefazolinに比較すると高く、いっぽう、内服時の吸収はひじょうに良好であるから、経口的に使用するのが適当と考えられる。

Table 1 Cases treated with cephadrine

Case	Name	Age	Sex	Diagnosis	Microorganisms isolated	Cephadrine			Course of symptoms		Effect	Remarks
						Daily dose	Days	Total dose	Before treatment	After treatment		
1	Y. K.	17	M	Acute tonsillitis		1.0	7	7.0	Fever 39.7°C Pharyngeal pain Tonsillar pus embole(both) Leucocyte 12,000 CRP 2 +	Normal temp.(after 3days) Disappeared (after 4days) Disappeared (after 5days) 4,200 (after 7days) — (after 7days)	Effective	
2	K. M.	24	F	Acute tonsillitis		1.0	7	7.0	Fever 37.8°C Pharyngeal pain Tonsillar pus fur (both) Leucocyte 24,700 CRP 2 +	Normal temp.(after 3days) Disappeared (after 3days) Disappeared (after 3days) 7,300 (after 3days) — (after 9days)	Effective	
3	S. Y.	44	M	Acute tonsillitis		1.0	7	7.0	Fever 38.1°C Pharyngeal pain Tonsillar pus embole(both) Leucocyte 14,300 CRP +	Normal temp.(after 2days) Disappeared (after 4days) Disappeared (after 4days) 8,000 (after 7days) — (after 7days)	Effective	
4	M. H.	68	F	Pneumonia	<i>Diplococcus pneumoniae</i>	1.0 1.5	20 11	19.5 16.5	Fever 38.6°C Cough Thoracic pain Thoracic X-ray picture shadows at right S 4,5,8 Leucocyte 11,900 CRP 4 + E. S. R. (1 hr. 130mm)	Normal temp.(after 3days) Disappeared (after 7days) Disappeared (after 3days) Improved remarkably (after 30days) 6,600 (after 15days) — (after 22days) 75mm (after 31days)	Slightly effective	Eosinophilia before 2% after 15days 11% after 22days 12% after 31days 9% 12th day after the end of treatment 5%
5	Y. K.	59	M	Pneumonia		1.0	38	37.0	Fever 37.5°C Thoracic pain Thoracic X-ray picture shadows at right S 4,5 Leucocyte 8,700 E. S. R. (1 hr. 50mm)	Normal temp.(after 3days) Disappeared (after 6days) Disappeared (after 33days) 6,000 (after 2days) 8mm (after 16days)	Effective	
6	Y. K.	17	M	Pneumonia		1.0	15	14.5	Fever 37.6°C Cough Sputum Thoracic pain Thoracic X-ray picture shadow at right S 4 CRP 3 + E. S. R. (1 hr. 20mm)	Normal temp.(after 3days) Disappeared (after 12days) Disappeared (after 4days) Disappeared (after 2days) Disappeared (after 7days) — (after 7days) 3mm (after 7days)	Effective	
7	T. T.	60	F	Pneumonia	G. N. B.	1.0	15	14.0	Fever 38°C Cough Sputum Thoracic X-ray picture shadows at right S 9,10 shadow at left S 9 Leucocyte 11,100 CRP 2 + E. S. R. (1 hr. 134mm)	Normal temp.(after 5days) Disappeared (after 7days) Disappeared (after 3days) Disappeared (after 14days) Disappeared (after 7days) 5,800 (after 7days) — (after 14days) 60mm	Effective	

Table 1 Cases treated with cephradine (Continued)

Case	Name	Age	Sex	Diagnosis	Microorganisms isolated	Cephradine		Course of symptoms		Effect	Remarks	
						Daily dose	Days	Total dose	Before treatment			After treatment
8	Y. Y.	62	M	Pneumonia		1.5	37	55.5	Before treatment Fever 37.8°C Cough Sputum Thoracic X-ray picture shadow at right S 4 Leucocyte 11,000 CRP 2+ E. S. R. (1 hr. 105mm)	After treatment Normal temp (after 6days) Disappeared (after 7days) Disappeared (after 6days) Nearly disappeared (after 37days) 7,800 (after 7days) — (after 37days) 9mm (after 37days)	Slightly effective	
9	N. T.	25	F	Acute pyelonephritis	<i>E. coli</i>	1.0	14	14.0	Before treatment Fever 38.2°C Abdominal tenderness right Bacteriuria >10 <sup>8</sup> /ml Numerous leucocyte in urine	After treatment Normal temp (after 3days) Disappeared (after 7days) Disappeared (after 7days) 1-2/F (after 7days)	Effective	
10	Y. T.	48	F	Acute pyelonephritis	<i>E. coli</i>	2.0~1.0	10	13.0	Before treatment Fever 38.8°C Lumbar pain (right) Pollakiuria Miction pain Leucocyte 13,400 Bacteriuria >10 <sup>8</sup> /ml Innumerable leucocytes in urine	After treatment Normal temp (after 3days) Disappeared (after 4days) 7,000 (after 3days) Disappeared (after 3days) 3-4/F (after 3days)	Effective	
11	K. S.	18	M	Acute cystitis	<i>E. coli</i>	1.0	10	1.0	Before treatment Pollakiuria, Miction pain Bacteriuria >10 <sup>8</sup> /ml Numerous leucocytes in urine	After treatment Disappeared (after 4days) Disappeared (after 7days) 1-2/F (after 4days)	Effective	
12	Y. Y.	60	F	Acute cystitis	<i>E. coli</i>	1.0	8	8.0	Before treatment Lower abdominal pain Miction pain Sense of residual urine Bacteriuria >10 <sup>8</sup> /ml Numerous leucocytes in urine	After treatment Disappeared (after 5days) Disappeared (after 4days) 2-3/F (after 7days)	Effective	
13	R. M.	66	F	Acute cystitis (Sequelae of apoplexy)	<i>E. coli</i>	1.0	8	8.0	Before treatment Fever 38.2°C Lower abdominal pain Pollakiuria Miction pain Leucocyte 11,000 Bacteriuria >10 <sup>8</sup> /ml Numerous leucocytes in urine	After treatment Normal temp (after 4days) Disappeared (after 6days) 8,000 (after 4days) 5,600 (after 7days) Disappeared (after 6days) 3-5/F (after 7days)	Effective	
14	T. H.	32	F	Asymptomatic bacteriuria (Pregnant woman)	<i>E. coli</i>	1.5	14	21.0	Before treatment Bacteriuria >10 <sup>8</sup> /ml Numerous leucocytes in urine	After treatment Disappeared (after 4days) 3-4/F (after 7days)	Effective	

## 5. 結 語

CED の内服治療を行なった急性扁桃炎3例はすべて有効, 肺炎5例は3例有効, 2例やや有効, 大腸菌性尿

路感染症6例はすべて有効であった。

自覚的な副作用は認められず, 1例にCED使用中に10%前後の好酸球増加をきたしたが, 治療終了後に減少した。

## CLINICAL EXPERIENCE WITH CEPHRADINE

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Cephadrine was administered orally to 14 patients. The results obtained were as follows: Effective in all 3 cases of acute tonsillitis, effective in 3 cases and slightly effective in 2 cases among 5 cases of pneumonia, and effective in all 6 cases of urinary tract infection due to *E. coli*. No subjective side-effect was noticed with cephadrine. A case presented eosinophilia of around 10% during cephadrine therapy, and the count reduced after completion of cephadrine treatment.