

## Nordic Casemix Centre - Case #214

### Case 2009-MDC04-02 CPAP and BiPAP in DRG 475

2014-01-23 13:50 - Anonymous

<b>Status:</b> Accepted	<b>Start date:</b> 2014-01-23
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<b>MDC:</b> MDC04	<b>Owner / responsible:</b>
<b>Target Group:</b> COMMON, DEN, EST, FIN, ICE, LAT, NOR, POL, SWE, UK	<b>Review status:</b> CLOSITEM - Closed item

#### Description

Last updated: 2009-03-20

Status: CLOSITEM - Closed item

Initiated: 2009-01-26

By: Olafr Steinum/CPK, Sweden

Expert Network 2009-02-26 - Change recommended

Board 2009-03-20 - Recommendation accepted

#### BACKGROUND

CPK ID 292

#### Problem

DRG 475 (Respiratory system diagnosis with ventilator support) includes treatment with CPAP/BiPAP and respirator treatment. Treatment with CPAP/BiPAP can be performed on almost any ward but respirator treatment is a typical intensive care procedure.

#### Analysis by CPK

The following procedures (Swedish codes) are included in DRG 475:

KOD	TEXT	BESKRIVNING
DG001	Inledande av behandling med luftvägsmottryck CPAP eller BiPAP	Avser akutbehandling
DG002	Inledande av behandling med respirator UNS	Avser akutbehandling (inklusive NIPPV och högfrekvensoscillatorventilation, HFOV)
DG007	Kontroll av patient som behandlas med luftvägsmottryck CPAP eller BiPAP	Oximetri, ev justering av rekommenderat expiratoriskt tryck. Kontroll av utrustning
DG008	Kronisk respiratorbehandling, kontroll	Oximetri ev ändring av ventilatorinställning. Kontroll av utrustning
DG017	Trakeal intubation	
DG018	Trakeal intubation, fiberendoskopisk	
DG021	Respiratorbehandling, konventionell	
DG022	Respiratorbehandling, HFO	
DG023	Respiratorbehandling, non-invasiv	
DM004	Intubering, övertrycksandning (på nyfödda)	
DV090	NO-behandling	

In the Swedish cost data base (2007) we analysed the content of DRG 475 and divided the patients into three groups, one with CPAP/BiPAP treatment (DG001/DG007 in the table below), one with conventional respirator treatment (DG021 in the table below) and

one group without DG001, DG007 or DG021 (others in the table below).

	Without outliers				With outliers			
	N	Mean	Std	CV (V%)	N	Mean	Std	CV (V%)
DG001/DG007	929	74 582	74 644	100%	951	93 848	172 632	184%
DG021	91	162 764	107 609	66%	105	243 779	270 290	111%
others	236	112 440	99 556	89%	272	187 857	252 659	134%
all patients	1 256	88 084	86 355	98%	1 328	124 957	206 686	165%

As seen in the table, the patients treated with CPAP/BiPAP are far less expensive than the other patients in DRG 475.

### Suggestion

We suggest a split of DRG 475 into DRG 475A and 475B where the less expensive cases with CPAP/BiPAP treatment are grouped to 475B.

### COMMENTS

#### Expert Network 2009-02-26

The meeting recommended acceptance of the proposal and the case will be closed. Sweden and Finland shall analyse the possibility to withdraw DRG 475B in the future and instead add CC property to the CPAP/BiPAP codes which will be a new case.

### CHANGES

#### Technical changes

- Addition of a new procedure property: 04S04 'Positive airway pressure therapy'.
- The new property is given to WAA722 Positive end-expiratory pressure (PEEP) therapy.
- Procedure property 04S03 'Mechanical ventilation' is removed from this code.
- The propertychanges are automatically inherited to national codes mapped to WAA722.

Two new DRG's is added the Drgnames-table:

- 475A Respiratory system diagnosis with respirator therapy
- 475B Respiratory system diagnosis with PEEP support

In the DRGlogic table a new rule is added after current rule 404D031. The new rule is a copy of current rule 404D031 but propro1 is changed to 04S04 and DRG to 475B.

In the current rule 404D031 DRG is changed to 475A.

In the DRGlogic table a new rule is added after current rule 104D030. The new rule is a copy of current rule 404D031 but propro1 is changed to 04S04. The new rule results in the same DRG as the old 475O.

#### DRG changes

Cases with light respiratory support (PEEP) are assigned to DRG 475B and cases with more heavy support in DRT 475A in MDC 04. No change in short therapy cases.

### Introduction

2010

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2009-MDC04-02_1.jpg	44.8 KB	2014-01-23	Anonymous
2009-MDC04-02_2.jpg	21.6 KB	2014-01-23	Anonymous