Pulsating Aerosol –
For the precise, effective and gentle treatment of sinusitis

Inhalation treatment for acute and chronic diseases of the upper airways

www.parimedical.co.uk
PARI SINUS –
Targeted Inhalation Therapy

Pulsating inhalation therapy – specifically designed to treat sinusitis

Pulsating aerosol – for the precise deposition of the active agent $^{1,2,\#}$

<table>
<thead>
<tr>
<th></th>
<th>Nasal Spray</th>
<th>PARI SINUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal deposition, %</td>
<td>96.5*</td>
<td>21.5*</td>
</tr>
<tr>
<td>Deposition in the paranasal cavities in %</td>
<td>0.45*</td>
<td>12.5*</td>
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* Deposition (in %) of the applied active agent.

Around 28 times more effective than the nasal spray

Second to none – pulsating aerosol effectively deposits the active agent in the paranasal sinuses$^{1,2}$

$\#$ Gamma camera images overlaid with MRI Images
Patient Groups benefiting from Therapy with PARI SINUS:

1. Acute Rhinosinusitis (ARS)
   - Adults and children aged 6 and older
   - For example, with a bacterial infection

2. Chronic Rhinosinusitis (CRS) with/without polyps
   - Adults and children aged 6 and older
   - Previous steroid treatment with a nasal spray unsuccessful
   - Patients before an initial, or repeat surgical treatment of the paranasal cavities (FESS)

3. CRS + disease of the lower airways
   - Adults and children aged 6 and older
   - Patients with CRS and diseases of the lower airways (sinubronchial syndrome), e.g.
     - COPD
     - Bronchitis
     - Bronchiectasis
     - Asthma
     - Cystic fibrosis
Patient Profile

PARI SINUS
Patient with chronic inflammation of the paranasal cavities

Patient details: Male, 22 years old
Diagnosis: Recurring infections, rhinorrhoea and difficulty breathing through the nose
No polyps
No headaches or impaired sense of smell
On the right, complete opacification of the maxillary sinuses and ethmoidal cells. On the left, basal opacification of the maxillary sinuses.

Recommended treatment: Paranasal sinus surgery and septoplasty
Actual treatment: Three-month course of steroids (budesonide suspension 1 x daily) administered with PARI SINUS

Result: A clear improvement in symptoms meant that the paranasal sinus surgery was no longer required

The MRI image on the left shows the blocked maxillary sinuses and ethmoidal cells prior to treatment with PARI SINUS. The image on the right shows the normal appearance of the same paranasal cavities post treatment with PARI SINUS.
**Pulsating Aerosol –**
**Clear Relief of Sinusitis Symptoms**

### Acute Rhinosinusitis (ARS)

![Symptom score chart](chart)

**Severe symptoms**

- Before treatment
- Day 3
- Day 7

**Symptom score**

- Oedema
- Hyperaemia
- Nasal obstruction
- Secretion

**Patients with ARS and bacterial infection of the paranasal cavities**

- *Treatment with a combination of a cephamycin antibiotic, an oxymetazoline decongestant and the mucolytic Acetylcysteine, 2 x daily*

### Chronic Rhinosinusitis (CRS)

![Symptom score chart](chart)

**Severe symptoms**

- Before treatment
- Week 6

**Symptom score**

- SNOT-20 GAV (0–9)**

**Patients with CRS without polyps***

**-35% Reduction in the SNOT-20 score**

**Convincing – impressive symptom relief and clear improvement in quality of life**

* *Treatment with a combination of a cephamycin antibiotic, an oxymetazoline decongestant and the mucolytic Acetylcysteine, 2 x daily*

** **Sino-Nasal Outcome Test 20, German Adapted Version** for the evaluation of the subjectively assessed, disease-specific quality of life

*** Treatment: 2 ml ready-to-inhale preparation with 2 mg Flutide® forte
PARI SINUS –
Targeted Inhalation Therapy

• Second to none – pulsating aerosol effectively deposits the active agent in the paranasal sinuses $^{1,2}$
• Convincing – impressive symptom relief and clear improvement in quality of life $^{3,4}$
• Suitable for all your patients with acute and chronic rhinosinusitis as well as those with a concomitant disease of the lower airways


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