

1 **MODULE 1.3.1.1 PROPOSED PROFESSIONAL INFORMATION FOR PCV-10 CIPLA**

2

3 **SCHEDULING STATUS**

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6 **1. NAME OF MEDICINE**

7 **PCV-10 CIPLA** Suspension for injection

8 Pneumococcal polysaccharide conjugate vaccine (10-valent, adsorbed)

9

10 **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

11 Each 0,5 mL (1 dose) suspension for injection contains:

12 Pneumococcal polysaccharide serotype 1: 2 mcg;

13 Pneumococcal polysaccharide serotype 5: 2 mcg;

14 Pneumococcal polysaccharide serotype 6A: 2 mcg;

15 Pneumococcal polysaccharide serotype 6B: 4 mcg);

16 Pneumococcal polysaccharide serotype 7F: 2 mcg;

17 Pneumococcal polysaccharide serotype 9V: 2 mcg;

18 Pneumococcal polysaccharide serotype 14: 2 mcg;

19 Pneumococcal polysaccharide serotype 19A: 2 mcg;

20 Pneumococcal polysaccharide serotype 19F: 2 mcg; and

21 Pneumococcal polysaccharide serotype 23F: 2 mcg.

22 Serotypes are conjugated to CRM197-diphtheria carrier protein 19 to 48 mcg, adsorbed on

23 aluminium phosphate. Each 0,5 mL dose contains 0,125 mg aluminium. Sugar free.

24

25 For the full list of excipients, see **section 6.1**.

### 26        **3. PHARMACEUTICAL FORM**

27        Suspension for injection.

28        PCV-10 CIPLA is a whitish turbid liquid (filled in clear glass vials closed with rubber closure,  
29        aluminum seal and a polypropylene flip-off cap) tends to settle down on keeping and is free from  
30        foreign particles/floccules.

31

### 32        **4. CLINICAL PARTICULARS**

#### 33            **4.1. Therapeutic indications**

34        Active immunisation against invasive disease, pneumonia and acute otitis media caused by  
35        *Streptococcus pneumoniae* serotypes 1, 5, 6A, 6B, 7F, 9V, 14, 19A, 19F and 23F in infants and  
36        toddlers from 6 weeks up to 2 years of age.

37        The use of vaccine should be determined on the basis of relevant recommendations and take  
38        into consideration the disease impact by age and regional epidemiology.

39

#### 40            **4.2. Posology and method of administration**

41        PCV-10 CIPLA is given intramuscularly, with care to avoid injection into or near nerves and  
42        blood vessels. PCV-10 CIPLA is a suspension containing an adjuvant, it must be shaken  
43        vigorously immediately prior to use to obtain a homogenous, whitish turbid suspension in the  
44        vaccine container.

45

46        PCV-10 CIPLA should be visually inspected for any foreign particulate matter and / or variation  
47        of physical aspect prior to administration. In event of either being observed, discard the vaccine.

48

#### 49        ***Vaccination schedule:***

50 PCV-10 CIPLA is to be administered as a three-dose primary series at dosing schedule from six  
 51 weeks of age. A booster dose is to be administered at 9 – 10 or 12 – 15 months of age. The  
 52 minimum interval between doses should be 4 weeks. If a booster dose is given, it should be at  
 53 least 6 months after the last primary dose.

54

55 **Table 1: Vaccination schedule for infants and toddlers**

Dosage schedules	Dose 1 <sup>a,b</sup>	Dose 2 <sup>b</sup>	Dose 3 <sup>b</sup>	Dose 4 <sup>c</sup>
3p + 1	6 weeks	10 weeks	14 weeks	9 to 10 months or 12 to 15 months
3p + 0	6 weeks	10 weeks	14 weeks	

<sup>a</sup>Dose 1 may be given as early as 6 weeks or 2 months of age.

<sup>b</sup>The recommended dosing interval is 4 to 8 weeks.

<sup>c</sup>A booster (fourth) is recommended at least 6 months after the last primary dose and may be given from the age of 9 months onwards (preferably 12 and 15 months of age).

56

57 For children who are beyond the age of routine infant schedule, the following schedule is  
 58 proposed:

59 The catch-up schedule, for children aged 7 to 24 months who have not received PCV-10 CIPLA  
 60 is as follows:

61 **Table 2: Vaccination schedule for unvaccinated children aged 7 to 24 months of age**

Dosage schedules	Total number of 0,5 mL doses
7 to 11 months	3 <sup>a</sup>
12 to 24 months	2 <sup>b</sup>

<sup>a</sup>The vaccination schedule consists of two primary doses of 0,5 mL with an interval of at

least 1 month between doses.

A booster (third) dose is recommended in the second year of life with an interval of at least 2 months after the last primary dose.

<sup>b</sup>The vaccination schedule consists of two doses of 0,5 mL with an interval of at least 2 months between doses.

62

### 63 **Method of administration:**

64 PCV-10 CIPLA should be given by intramuscular injection. The preferred sites are anterolateral  
65 aspect of the thigh in infants or the deltoid muscle of the upper arm in young children. The  
66 vaccine should not be injected in the gluteal area. Do not administer PCV-10 CIPLA  
67 intravascularly. The vaccine should not be injected intradermally, subcutaneously or  
68 intravenously, since the safety and immunogenicity of these routes have not been evaluated.

69

### 70 **4.3. Contraindications**

71 Hypersensitivity to any component of the vaccine, including diphtheria toxoid.

72

### 73 **4.4. Special warnings and precautions for use**

74 Appropriate medical treatment and supervision must always be readily available in case of a  
75 rare anaphylactic event following the administration of the vaccine. Hydrocortisone and  
76 antihistaminics should also be available in addition to supportive measures such as oxygen  
77 inhalation and IV fluids.

78

79 ADRENALINE INJECTION (1:1000) MUST BE IMMEDIATELY AVAILABLE SHOULD AN  
80 ACUTE ANAPHYLACTIC REACTION OCCUR DUE TO ANY COMPONENT OF THE

81 VACCINE. The mainstay in the treatment of severe anaphylaxis is the prompt use of adrenaline,  
82 which can be lifesaving. It should be used at the first suspicion of anaphylaxis.

83 Special care should be taken to ensure that the injection does not enter a blood vessel (see  
84 **section 4.2**). It is extremely important when the parent, guardian returns for the next dose in the  
85 series, the parent and guardian should be questioned concerning occurrence of any symptoms  
86 and/or signs of an adverse reaction after the previous dose.

87

88 Minor illnesses, such as mild respiratory infection, with or without low grade fever, are not  
89 generally contraindications to vaccination. The decision to administer or delay vaccination  
90 because of a current or recent febrile illness depends largely on the severity of the symptoms  
91 and their aetiology. The administration of PCV-10 CIPLA should be postponed in subjects  
92 suffering from acute severe febrile illness. As with any intramuscular injection, PCV-10 CIPLA  
93 should be given with, caution to infants or children with thrombocytopenia or any coagulation  
94 disorder, or to those receiving anticoagulant therapy. PCV-10 CIPLA is not intended to be used  
95 for treatment of active infection. As with any vaccine, PCV-10 CIPLA may not protect all  
96 individuals receiving the vaccine from pneumococcal disease.

97

98 Safety and immunogenicity data on PCV-10 CIPLA are not available for children in specific  
99 groups at higher risk for invasive pneumococcal disease (e.g., children with congenital or  
100 acquired splenic dysfunction, HIV infection, malignancy, nephrotic syndrome). Children in these  
101 groups may have reduced antibody response to active immunisation due to impaired immune  
102 responsiveness. Limited data have demonstrated that other pneumococcal conjugate vaccines  
103 induce an immune response in children with HIV, sickle cell disease, and children born  
104 prematurely with a safety profile similar to that observed in non-high-risk groups. The use of  
105 PCV-10 CIPLA in high-risk groups should be considered on an individual basis.

106

107 Apnoea in premature infants: Based on experience with use of other pneumococcal conjugate  
108 vaccines, the potential risk of apnoea and the need for respiratory monitoring for 48 – 72 hours  
109 should be considered when administering the primary immunisation series to very premature  
110 infants (born  $\leq$  28 weeks of gestation) and particularly for those with a previous history of  
111 respiratory immaturity. As the benefit of vaccination is high in this group of infants, vaccination  
112 with PCV-10 CIPLA should not be withheld or delayed.

113

#### 114 **4.5. Interactions with other medicines and other forms of interaction**

115 PCV-10 CIPLA can be given with any of the following vaccine antigens, either as monovalent or  
116 combination vaccines: diphtheria, tetanus, whole-cell pertussis, *Haemophilus influenzae* type b,  
117 inactivated or oral poliomyelitis, rotavirus, yellow fever, hepatitis B, measles and rubella. Clinical  
118 studies demonstrated that the immune responses and the safety profiles of the administered  
119 vaccines were unaffected. Studies with other pneumococcal conjugate vaccines co-  
120 administered with mumps, varicella, meningococcal ACWY, and rotavirus vaccines have  
121 demonstrated that the immune responses of the other pneumococcal conjugate vaccines and  
122 the co-administered vaccines were unaffected. In clinical trials, when other pneumococcal  
123 conjugate vaccines were given concomitantly but at a different site/route, with rotavirus vaccine  
124 or hepatitis A vaccine, no change in the safety profiles for these infants was observed.

125 Different injectable vaccines should always be given at different injection-sites.

126 Till date PCV-10 CIPLA clinical studies have been conducted in India and The Gambia in  
127 toddlers and infants. In the Gambia Phase I/II study, there was no evidence that administration  
128 of PCV-10 CIPLA interfered with the immune response to any component of co-administered  
129 pentavalent vaccine.

130 In the Gambia Phase 3 study, non-inferiority of the immune responses induced by EPI vaccines  
131 between treatment groups was demonstrated for all EPI vaccines co-administered during the 3-  
132 dose primary vaccination series (6 weeks, 10 weeks and 14 weeks) –namely, whole-cell  
133 pentavalent vaccine (DTwP-HepB-Hib) oral polio vaccine, inactivated polio vaccine, and oral  
134 rotavirus vaccine.

135 Standard EPI vaccines based on the Gambian EPI schedule (measles-rubella vaccine and  
136 yellow fever virus vaccine) were co-administered with the booster dose of study vaccine. Non-  
137 inferiority of the immune responses was demonstrated for these co-administered EPI vaccines.  
138 While there are no known published data on co-administration of other pneumococcal conjugate  
139 vaccine with yellow fever virus vaccine, the high sero-response rate to yellow fever in the PCV-  
140 10 CIPLA group indicates PCV-10 CIPLA does not interfere with the immune response to yellow  
141 fever virus vaccine.

142

#### 143 **4.6. Fertility, pregnancy and lactation**

144 There are no data on pregnancy and breastfeeding.

145

#### 146 **4.7. Effects on ability to drive and use machines**

147 Data on “Effects on ability to drive and use machines” are not available.

148

#### 149 **4.8. Undesirable effects**

150 *Summary of safety profile:*

151 Safety assessment of PCV-10 CIPLA was based on clinical trials involving the administration of  
152 5416 doses to 1828 healthy children as primary immunisation. Furthermore, 428 children  
153 received a booster dose of PCV-10 CIPLA following a primary vaccination course. PCV-10  
154 CIPLA was administered concomitantly with recommended childhood vaccines, as appropriate.

155

156 Safety was also assessed in 57 previously unvaccinated children during the second year of life;  
157 all children received 2 doses of vaccine. PCV-10 CIPLA has also been used for booster  
158 vaccination in 56 children who received another pneumococcal conjugate vaccine for the  
159 primary course.

160 The vast majority of the reactions observed following vaccination were of mild or moderate  
161 severity and were of short duration. In the largest study in infants, the most common adverse  
162 reactions observed after primary vaccination were tenderness at the injection site, fever and  
163 irritability, which were reported for approximately 49 %, 52 % and 32 % of all infants,  
164 respectively. No increase in the incidence or severity was observed following subsequent doses  
165 of the primary vaccination course. Following booster vaccination, the most common adverse  
166 reaction was tenderness at the injection site, which was reported for approximately 8 % of all  
167 infants.

168 The Indian Phase 3 licensure study in infants similarly showed tenderness at the injection site,  
169 fever and irritability as the most common adverse reactions observed after primary vaccination,  
170 with no change in the incidence or severity observed following subsequent doses of the primary  
171 vaccination course. Majority of the solicited AEs were of mild to moderate intensity and resolved  
172 completely.

173 The injection site and systemic reactions following catch-up vaccination or booster during the  
174 second year of life were similar to those reported after primary vaccination.

175 In all studies, the incidence and severity of local and general adverse reactions reported within 7  
176 days of vaccination were similar to those after vaccination with the licensed comparator PCV.

177

178 ***List of adverse reactions:***

179 Adverse reactions (i.e. events considered as related to vaccination) have been categorised by  
180 frequency for all age groups.

181 Frequencies are reported as:

- 182 • Very common ( $\geq 1/10$  vaccinees)
- 183 • Common ( $\geq 1/100$  vaccinees but  $< 1/10$  vaccinees)
- 184 • Uncommon ( $\geq 1/1\ 000$  vaccinees but  $< 1/100$  vaccinees)
- 185 • Rare ( $\geq 1/10\ 000$  vaccinees but  $< 1/1\ 000$  vaccinees)

186

187 **Infections and infestation:**

188 *Very common:* upper respiratory tract infection.

189

190 **Immune system disorders:**

191 *Frequency not known:* anaphylaxis (see **section 4.4**)

192

193 **Metabolism and nutrition disorders:**

194 *Common:* decreased appetite.

195

196 **Psychiatric disorders:**

197 *Very common:* irritability.

198 **Nervous system disorders:**

199 *Common:* drowsiness.

200

201 **Gastrointestinal disorders:**

202 *Uncommon:* diarrhoea.

203

204 **General disorders and administration site conditions:**

205 *Very common:* pain, fever > 37,5 °C.

206 *Common:* erythema, swelling/ induration

207 *Uncommon :* fever > 39 °C

208

209 **Skin and subcutaneous tissue disorders:**

210 *Common:* rash.

211

212 **Reporting of suspected adverse reactions**

213 If you get side effects, talk to your doctor, pharmacist or nurse. You can also report side effects

214 to SAHPRA via the “6.04 Adverse Drug Reaction Reporting Form”, found online under

215 SAHPRA’s publications: <https://www.sahpra.org.za/Publications/Index/8>. By reporting side

216 effects, you can help provide more information on the safety of PCV-10 CIPLA. You may also

217 report any suspected side effects (to Cipla Medpro (Pty) Ltd) by e-mail:

218 [drugsafetysa@cipla.com](mailto:drugsafetysa@cipla.com) or telephone: 080 222 6662 (toll free).

219

220 **4.9. Overdose**

221 In overdose, side effects can be precipitated and/or be of increased severity. (see **section 4.8**)

222

223 **5. PHARMACOLOGICAL PROPERTIES**

224 **5.1. Pharmacodynamic properties**

225 Pharmacotherapeutic group: A.30.1 – Biological antigens

226 ATC code: J07AL02

227 PCV-10 CIPLA contains polysaccharides corresponding to the 10 most prevalent IPD-causing  
228 serotypes in Africa, Asia, and Latin America, based on surveillance studies conducted prior to  
229 the introduction of PCVs in these regions.

230

231 Unconjugated polysaccharides are poorly immunogenic in infants less than 2 years old and do  
232 not induce long-term immune memory in recipients of any age. Conjugation of polysaccharides  
233 to an immunogenic protein carrier (as contained in PCV-10 CIPLA) overcomes the T cell-  
234 independent nature of polysaccharide antigens. In addition to a B-cell response,  
235 polysaccharide-protein conjugates also generate carrier protein-specific T helper cells, which  
236 provide the signals needed for B-cell maturation and memory B-cell generation. Thus, protein  
237 conjugation is expected to enhance the antibody response to each serotype, induce immune  
238 memory, and elicit an anamnestic response when immunised infants and young children are re-  
239 exposed to pneumococci.

240

## 241 **5.2. Pharmacokinetic properties**

242 Evaluation of pharmacokinetic properties is not available for vaccines.

243

## 244 **6. PHARMACEUTICAL PARTICULARS**

### 245 **6.1. List of excipients**

- 246 • Aluminium phosphate
- 247 • L-Histidine
- 248 • Polysorbate-20
- 249 • Sodium chloride
- 250 • Succinic acid
- 251 • Water for Injection

252

**253 6.2. Incompatibilities**

254 PCV-10 CIPLA must not be mixed with other medicines.

255

**256 6.3. Shelf life**

257 36 months.

258

**259 6.4. Special precautions for storage**

260 PCV-10 CIPLA must be stored at 2 °C to 8 °C, in the refrigerator.

261 Shake well.

262 Do not freeze.

263 Discard if the vaccine has been frozen. A fine white deposit with clear colourless supernatant

264 may be observed upon storage of the vial. The does not constitute a sign of deterioration.

265

**266 6.5. Nature and contents of container**

267 PCV-10 CIPLA is marketed in a mono-carton pack or packs of 50's in clear or amber, tubular

268 glass vials that are fitted with grey rubber stoppers containing an aluminium seal with

269 polypropylene flip-top cap, that are packed into an outer carton.

270

**271 6.6. Special precautions for disposal and other handling**

272 Any unused medicine or waste material should be disposed of in accordance with local

273 requirements.

274

**275 7. HOLDER OF CERTIFICATE OF REGISTRATION**

276 CIPLA MEDPRO (PTY) LTD

277 Building 9, Parc du Cap,

278 Mispel Street,

279 Belville, 7530,

280 RSA

281

282 Company Contact Details

283 Phone: +27 21 943 4200

284 Customer Care: 080 222 6662

285 E-mail: [info@cipla.com](mailto:info@cipla.com)

286

287 **8. REGISTRATION NUMBER(S)**

288 TBC

289

290 **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

291 TBC

292

293 **10. DATE OF REVISION OF THE TEXT**

294 Not applicable.