

**Wildlife-transmitted *Taenia* and *Versteria* cysticercosis and coenurosis in humans and other primates**

Peter Deplazes, Ramon M. Eichenberger, Felix Grimm

**Supplemental table 1.** Case-reports of coenurosis in humans.

| Year                           | Patient                 | Clinical signs                                                             | Infection site                     | Treatment / Outcome                  | Reference                                          |
|--------------------------------|-------------------------|----------------------------------------------------------------------------|------------------------------------|--------------------------------------|----------------------------------------------------|
| <b><i>Taenia multiceps</i></b> |                         |                                                                            |                                    |                                      |                                                    |
| 1913                           | 40 M, France            | Epilepsy                                                                   | Brain, lateral ventricles          | died                                 | Brumpt, 1913 (described by Correa et al., 1962)    |
| 1936                           | unknown, Africa         | unknown                                                                    | Brain                              | unknown                              | Spencer, 1936 (described by Correa et al., 1962)   |
| 1940                           | unknown, South Africa   | unknown                                                                    | Brain, left lateral ventricle      | unknown                              | Cluver, 1940 (described by Craig and Faust, 1943)  |
| 1941                           | 39 M, England, Navy man | coma                                                                       | Brain, lateral ventricle           | died in hospital                     | Clapham, 1941                                      |
| 1941                           | unknown, England        | unknown                                                                    | Brain                              | unknown                              | Parkinson, 1942 (described by Correa et al., 1962) |
| 1942                           | 42 F, France            | unknown                                                                    | Brain, posterior cerebral fossa    | died                                 | Roger, 1942 (described by Correa et al., 1962)     |
| 1946                           | 14 F, England           | paraplegia                                                                 | Spinal cord                        | surgery / non-recovery of paraplegia | Buckley, 1947; Crusz, 1948; Landells, 1949         |
| 1948                           | 2 M, USA                | hemiparesis, hydrocephalus                                                 | Brain, pons, medulla               | died                                 | Johnstone and Jones, 1950                          |
| 1948                           | 24 M, Spain             | seizures, loss of consciousness (since 4,5 years)                          | Brain                              | Surgery / unknown                    | Gallego, 1957                                      |
| 1950                           | 55 M, South Africa      | confused, distractible, headache, vomitus, momentary loss of consciousness | Brain, lateral and third ventricle | surgery / recovered partially        | Becker and Jacobson, 1951a                         |
| 1950                           | 34 M, South Africa      | headache, bilateral tinnitus, neck stiffness                               | Brain, left ventricle              | surgery / symptoms remained          | Becker and Jacobson, 1951a                         |
| 1950                           | 33 M, South Africa      | headache, vomitus, left side paralysis                                     | Brain, cerebellum and spinal cord  | surgery / some symptoms remained     | Becker and Jacobson, 1951a                         |
| 1950                           | 28 M, South Africa      | unknown                                                                    | Brain, fourth ventricle            | unknown                              | Becker and Jacobson, 1951a                         |
| 1953                           | 42 M, France            | Apathy, disorientation, incontinence                                       | Brain                              | died in hospital                     | Ranque and Nicoli, 1955                            |
| 1954                           | 21 M, Uganda            | painful left eye, blindness, headache                                      | Intraocular                        | Eye removed / unknown                | Boase, 1956                                        |

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|------|---------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------|
| 1955 | 32 M, South Africa        | Headache and neck stiffness                                                               | Brain, cerebellum                                           | died                         | Watson and Laurie, 1955                                                        |
| 1955 | 33 M, South Africa        | Coma in hospital                                                                          | Brain, left and right occipital lobe, right temporal lobe   | died                         | Watson and Laurie, 1955                                                        |
| 1955 | 51 M, African             | Conjunctivitis, Iritis, severe pain                                                       | Intraocular                                                 | Eye removed / unknown        | Wainwright, 1957                                                               |
| 1956 | unknown, France           | unknown                                                                                   | Brain                                                       | unknown                      | Bertrand, 1956 (described by Correa et al., 1962)                              |
| 1956 | 12 M, Uganda              | unknown                                                                                   | Intraocular                                                 | unknown                      | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1956 | F, Uganda                 | unknown                                                                                   | Intraocular                                                 | unknown                      | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1956 | 1 F, Ruanda               | unknown                                                                                   | Intraocular                                                 | Eye removed / unknown        | Boase, 1956                                                                    |
| 1957 | 24 M, African             | Impaired vision, occipital headache, vomitus                                              | Brain, 3rd ventricle                                        | Sudden death                 | Wainwright, 1957                                                               |
| 1957 | 42 M, European            | Frontal headache, progressive paresis, staggering, spastic right arm, neck stiffness      | Brain, subarachnoidal and temporal                          | Sudden death                 | Wainwright, 1957                                                               |
| 1957 | 32 F, African             | Severe headache, paresis, ataxia, neck rigidity                                           | Brain, cerebellum and subarachnoidal                        | Death                        | Wainwright, 1957                                                               |
| 1957 | 27 F, African             | Headache, dysphagia, cloudy vision, ataxia                                                | Brain, cerebellum, subarachnoidal, and behind optic chiasma | Death                        | Wainwright, 1957                                                               |
| 1957 | 48 M, Spain               | chiasmatic syndrome                                                                       | Brain                                                       | Surgery / unknown            | Gallego, 1957                                                                  |
| 1959 | 3 F, Swaziland (European) | Sore left eye                                                                             | Intraocular                                                 | Eye removed / loss of vision | Epstein et al., 1959                                                           |
| 1962 | 42 F, Brazil              | Generalized seizures, progressive paresis                                                 | Brain, arachnoidal                                          | died                         | Correa et al., 1962                                                            |
| 1964 | unknown, Italy            | unknown                                                                                   | Brain                                                       | unknown                      | D' Andrea, 1964 (described by Lescano and Zunt, 2013)                          |
| 1970 | 2 M, USA                  | fever, irritability, incoordination, progressive lassitude, anorexia, infrequent vomiting | Brain, spinal cord                                          | surgery / died               | Hermos et al., 1970                                                            |
| 1971 | 43 W, Ghana               | painful redness, right eye, headache                                                      | Intraocular                                                 | Surgery / loss of vision     | Manschot, 1976                                                                 |

|           |                   |                                                                             |                                                                    |                                                      |                                                    |
|-----------|-------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|
| 1971      | 2 W, Ghana        | redness left eye                                                            | Intramuscular, inferior fornix                                     | Surgery / recovery                                   | Manschot, 1976                                     |
| 1976      | 37 F, Switzerland | Headache, paraesthesia, hallucinations, left hemiparesis                    | Brain, anterior part of internal capsule and left nucleus caudatus | surgery / severe right hemiparesis and motor aphasia | Michal et al., 1977                                |
| 1982      | 3 F, USA          | Delayed development, weakness, vomitus, hydrocephalus                       | Brainstem, fourth ventricle, spinal cord                           | Surgery + PZQ / died                                 | Ing et al., 1998; Schellhas and Norris, 1985       |
| 1987      | 54 M, Italy       | Generalized seizures, progressive weakness, hemiparesis                     | Brain, parenchyma and interpeduncular cistern                      | survived                                             | Pau et al., 1987                                   |
| 1970-1990 | 28 M, Italy       | Drowsiness, bilateral papilledema, right hemiparesis                        | Brain                                                              | surgery / able to work                               | Pau et al., 1990                                   |
| 1970-1990 | 51 F, Italy       | Seizures, blindness                                                         | Brain                                                              | surgery / non-recovery, died after 10 years          | Pau et al., 1990                                   |
| 1970-1990 | 32 M, Italy       | Headache, drowsiness                                                        | Brain                                                              | surgery / recovery                                   | Pau et al., 1990                                   |
| 1990      | unknown, Nigeria  | unknown                                                                     | Brain                                                              | unknown                                              | Malomo, 1990 (described by Lescano and Zunt, 2013) |
| 2000      | Egypt             | unknown                                                                     | unknown                                                            | unknown                                              | Antonios and Mina, 2000                            |
| 2004      | 46 F, Italy       | left facial palsy, left-sided paraesthesia, ataxia                          | Brain, pons                                                        | Surgery / incontinence, paresis                      | Sabattani et al., 2004                             |
| 2007      | 4 F, Israel       | recurrent headache, nausea, paresis in arms and legs, bilateral papilledema | Brain, left hemisphere                                             | Surgery + PZQ / recovery                             | Benifla et al., 2007; El-On et al., 2008           |
| 2010      | 55 M, India       | Headache, left-sided hemiparesis, sensory impairment                        | Brain, left parietal lobe                                          | Surgery + Albendazole / recovery                     | Ambekar et al., 2013; Mahadevan et al., 2011       |
| 2010      | 36 M, India       | Headache, vomiting                                                          | Brain                                                              | Surgery + Albendazole / recovery                     | Mahadevan et al., 2011                             |

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***Taenia serialis***

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|------|--------------|--------------------------------|----------------------------------------------------------------------------|----------------------|-----------------------|
| 1932 | 50 F, France | incidental post-mortem finding | Three subcutaneous mass, subscapular right, left femur, right juxta iliaca | death of other cause | Brumpton et al., 1934 |
|------|--------------|--------------------------------|----------------------------------------------------------------------------|----------------------|-----------------------|

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|------|-----------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|--------------------------------------------------------------------------------|
| 1933 | 59 F, France                            | palpable swelling                                                                           | Subcutaneous, right buttock               | unknown                  | Bonnal et al., 1933 (described by Correa et al., 1962; Nagaty and Ezzat, 1946) |
| 1942 | 30 M, Nigeria                           | Stiffness and discomfort in right arm                                                       | Intramuscular                             | Surgery / no follow up   | Cannon, 1942                                                                   |
| 1949 | unknown M, France                       | routine medical examination                                                                 | Intramuscular, left deltoid               | Surgery / unknown        | Harant & Midrouillet, 1949 (described by Correa et al., 1962)                  |
| 1956 | F, Kenya                                | unknown                                                                                     | Subcutaneous                              | unknown                  | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1956 | F, Uganda                               | unknown                                                                                     | Subcutaneous                              | unknown                  | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1956 | F, Uganda                               | unknown                                                                                     | Subcutaneous                              | unknown                  | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1967 | 62 F, USA                               | Soft tissue tumour right neck, painless                                                     | Intramuscular, trapezius muscle           | Surgery / benign         | Raper & Dockeray, 1956 (described by Correa et al., 1962; Wilson et al., 1972) |
| 1979 | 38 F, Canda                             | rash, pyrexia, night sweats, lymphadenopathy                                                | Intramuscular, axillary fold, left breast | Surgery / unknown        | Benger et al., 1981                                                            |
| 1994 | 39 M, USA                               | Fever, chest & back pain, dyspnoea, nausea, vomitus, mass on back (progressively enlarging) | Intramuscular, left upper back            | Surgery + PZQ / recovery | Ing et al., 1998                                                               |
| 2005 | 24 F, Ivory Coast (diagnosed in France) | subcutaneous mass                                                                           | Intramuscular, right scapula              | unknown                  | Collomb et al., 2007                                                           |

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***Taenia brauni***

|           |                   |                   |                |         |                                                                                              |
|-----------|-------------------|-------------------|----------------|---------|----------------------------------------------------------------------------------------------|
| 1931      | adult F, DR Congo | unknown           | Subcutaneous   | unknown | Taramelli + Dubois, 1931 (described by Correa et al., 1962; Fain, 1956; Wilson et al., 1972) |
| 1948-1957 | child F, Congo    | subcutaneous mass | Along the ribs | unknown | Fain, 1956                                                                                   |
| 1948-1957 | child F, Congo    | subcutaneous mass | Along the ribs | unknown | Fain, 1956                                                                                   |
| 1948-1957 | child F, Congo    | subcutaneous mass | Along the ribs | unknown | Fain, 1956                                                                                   |

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|           |                 |                                    |                              |         |                                                                    |
|-----------|-----------------|------------------------------------|------------------------------|---------|--------------------------------------------------------------------|
| 1948-1957 | child M, Congo  | subcutaneous mass                  | Along the ribs               | unknown | Fain, 1956                                                         |
| 1948-1957 | child M, Congo  | subcutaneous mass                  | Trunk                        | unknown | Fain, 1956                                                         |
| 1948-1957 | child M, Congo  | subcutaneous mass                  | Trunk                        | unknown | Fain, 1956                                                         |
| 1948-1957 | child M, Congo  | subcutaneous mass                  | Trunk                        | unknown | Fain, 1956                                                         |
| 1948-1957 | 14 M, DR Congo  | subcutaneous mass                  | Trunk                        | unknown | Fain, 1956                                                         |
| 1964      | 6 F, Rwanda     | unknown                            | Subconjunctival              | unknown | Vanderick et al., 1964 (described by Williams and Templeton, 1971) |
| 1964      | unknwon, Rwanda | unknown                            | Orbital                      | unknown | Vanderick et al., 1964 (described by Williams and Templeton, 1971) |
| 1968      | 5, Uganda       | subcutaneous mass, mainly painless | Subcutaneous, lip            | unknown | Templeton, 1968                                                    |
| 1968      | 28 M, Uganda    | subcutaneous mass, mainly painless | Subcutaneous, shoulder       | unknown | Templeton, 1968                                                    |
| 1968      | 9 M, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, intercostal    | unknown | Templeton, 1968                                                    |
| 1968      | 7 F, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, temple         | unknown | Templeton, 1968                                                    |
| 1968      | 25 M, Uganda    | subcutaneous mass, mainly painless | Subcutaneous, intercostal    | unknown | Templeton, 1968                                                    |
| 1968      | 3 F, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, abdominal wall | unknown | Templeton, 1968                                                    |
| 1968      | 3 F, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, intercostal    | unknown | Templeton, 1968                                                    |
| 1968      | 30 M, Uganda    | subcutaneous mass, mainly painless | Subcutaneous, intercostal    | unknown | Templeton, 1968                                                    |
| 1968      | 6 F, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, axilla         | unknown | Templeton, 1968                                                    |
| 1968      | 4 M, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, abdominal wall | unknown | Templeton, 1968                                                    |
| 1968      | 5 M, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, intercostal    | unknown | Templeton, 1968                                                    |
| 1968      | 2 M, Uganda     | subcutaneous mass, mainly painless | Subcutaneous, eyelid         | unknown | Templeton, 1968                                                    |

|      |                     |                                              |                                  |                                       |                              |
|------|---------------------|----------------------------------------------|----------------------------------|---------------------------------------|------------------------------|
| 1968 | 4 F, Uganda         | subcutaneous mass, mainly painless           | Subcutaneous, abdominal wall     | unknown                               | Templeton, 1968              |
| 1968 | 45 F, Uganda        | unilateral blindness, painful eye            | Subcutaneous, periocular         | unknown                               | Templeton, 1968              |
| 1982 | 40 F, Nigeria (USA) | Axillary mass                                | Subcutaneous mass, left axillary | Surgery / recovery                    | Kurtycz et al., 1983         |
| 1987 | 25 M, Nigeria       | painful redness, blurry of vision, right eye | Intraocular                      | Local steroids + PZQ / loss of vision | Ibechukwu and Onwukeme, 1991 |

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***Taenia glomeratus***

|      |                  |         |                                |         |                         |
|------|------------------|---------|--------------------------------|---------|-------------------------|
| 1919 | unknown, Nigeria | unknown | Subcutaneous mass, intercostal | unknown | Turner and Leiper, 1919 |
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***Unspecified coenurosis***

|      |                  |                                                           |                                 |                            |                                                |
|------|------------------|-----------------------------------------------------------|---------------------------------|----------------------------|------------------------------------------------|
| 1930 | 21 F, Spain      | "pyoderma" in the right leg, nodes in arm, neck and chest | Subcutaneous                    | Surgery / unknown          | Gallego, 1957                                  |
| 1966 | adult M, Nigeria | unknown                                                   | Intramuscular, neck             | unknown                    | Cowper 1966 (described by Wilson et al., 1972) |
| 1969 | 20 M, Ghana      | neck swelling                                             | Intramuscular, left neck        | unknown                    | Wilson et al., 1972                            |
| 1971 | 14 F, Uganda     | pain in the eye                                           | Orbital, anterior chamber       | surgery / partial recovery | Williams and Templeton, 1971                   |
| 1971 | 1 M, Uganda      | unknown                                                   | Orbital, subconjunctival        | unknown                    | Williams and Templeton, 1971                   |
| 1971 | 1 F, Uganda      | unknown                                                   | Orbital, subconjunctival        | unknown                    | Williams and Templeton, 1971                   |
| 1971 | adult M, Uganda  | unknown                                                   | Orbital, vitreous               | unknown                    | Williams and Templeton, 1971                   |
| 1971 | 35 M, Uganda     | unknown                                                   | Orbital, vitreous               | unknown                    | Williams and Templeton, 1971                   |
| 1978 | 48 M, USA        | Weakness of right hand, focal seizure                     | Brain, left frontoparietal area | surgery / total recovery   | Jung et al., 1981                              |

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