Concomitant / Incidental Occurrence of Herpes Zoster / Shingles in Non-Insulin Dependent Diabetes Mellitus (Type 2)/ Adult Onset Diabetes Mellitus in an Elderly

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Abstract
A rare association of herpes zoster/shingles concomitantly occurring in a heavy weight elderly man with established non-insulin dependent (Type 2)/ adult onset diabetes mellitus is reported, highlighting the cardinal clinic features apparent has numbness, tingling, painful, group of vesicle / blister over an erythematous background occupying the left cheek ipsilaterally conforming to the distribution of branches of the facial nerve. The relevant citations were taken cognizance of and incorporated in the text. The response to acyclovir 800 mg 5 times in a day for period of 10 ten days was gratifying.

Keywords: Herpes zoster; Shingles; Non-insulin dependent; Adult onset; Diabetes Mellitus

Introduction
Diabetes mellitus (DM), diabetes emerging as one of major public health problems, well-recognized all the world over [1]. It is a group of metabolic disorders, characterized by high blood sugar levels over a period of time, manifesting either as insulin-dependent (Type 1) or non-insulin dependent diabetes mellitus (Type 2) diabetes mellitus. Its association with wide variety of dermatoses has been subject of walk the talk time and again emphasizing its changing scenario [2,3] besides, the recalcitrant dermatoses may prompt the unfolding of diabetic state to facilitate their appropriate management [2] the current report is an update, because it provides a narrative of herpes zoster / shingles, which has been of infrequent occurrence in DM [4].

Case-Report
A 68-Year-old-elderly man, weighing 95 killograms had presented with red, swollen and blisters ridden left side of face including the chin, cheek and extending to evolve pinna of the ear. The episode had its spontaneous onset on Dec 8, 2016. The initial symptoms were numbness, tingling and pain, heralded by the appearance of the preceding redness and blistering 24 to 48 hours after till he reported for checkup. While interrogating, the patient was found to be an established incumbent of non-insulin dependent diabetes mellitus/ adult onset diabetes on metformin, the glucophage therapy, in the dosages of 1000 mg each with the morning and evening meal.

Investigations
Blood sugar level evaluation: fasting blood sugar: 300.0 mg/dl (60-100); post-parandial: 400.0 mg/dl (80-140) hemoglobin A1c (HbA1c) test, glycated hemoglobin: 12 in the beginning, at the time of 1st reporting, current being 8 (Good Control= 5.5-6.8 %HbA1C, Fair Control= 6.8-8.2 % HbA1C, Poor Control= >8.2 % HbA1C)

Lipid profile
Serum Cholesterol: 140.0 mg/dl (Desirable <200) (Borderline High 200-239)
(High Chol.> 240); HDL Cholesterol: 38.0 mg/dl (30-70); LDL Cholesterol:71.6 mg/dl (110-140); VLDL Cholesterol:30.4 MG/dl (0-40); Serum Triglycerides:152.0 mg/dl (65-170)

Kidney function test
Blood Urea: 38.0 mg/dl (15-40); Serum Creatinine: 1.5 mg/dl (0.5-1.5); Serum Uric acid: 4.6 mg/dl (2-7); Serum Calcium: 8.9 mg/dl (8.4-11.2); Serum Sodium (Na): 141.0 meq/L (135-155); Serum Potassium (K): 4.47 meq/L (3.5-5.5); Total Protein: 7.0 gm/dl (6.0-8.0); Albumin: 4.7 gm/dl (3.7-5.3)

HIV 1 & 2 P 24 Combo test: Index value: 0.07, Non-Reactive

Herpes Simplex Virus (HSV) 1 IgM, Serum 0.28 Bio. Ref. Interval <0.80
VZV immunoglobulin M (IgM) 5: Not detected

Skin surface examination was conspicuous as erythema, edema and swellings, studded with several vesicle and/or blisters. The vesicles and blisters were largely disposed in groups. These lesions were ipsi-unilateral in their distribution confined to the left side of the face, occupying the lips, chin, cheek extending to cover pinna of the ear largely covering the areas supplied by branches of the facial nerve namely; temporal, zygomatic, buccal, marginal mandicular, and cervical branch (Figure 1 & 2).

**Figure 1:** Herpes zoster/shingles depicting erythema, edema, and vesicle / blisters disposed in groups in left cheek.

**Figure 2:** Herpes zoster/shingles depicting erythema, edema, and vesicle / blisters disposed in groups in left cheek.

**Treatment**

Acyclovir 800 milligrams (mg) was administered five (5) times daily for 10 days, with complete regression of lesions leaving behind pigmented macules.

**Discussion**

Indeed, the association of *herpes zoster* or shingles is intriguingly rare and has sparingly been reported [5-10]. It is, therefore, worthwhile at this point in time, to recall the salient features including symptoms and signs of *herpes zoster* / shingles. *Varicella-zoster* virus (VZV) human herpes virus is its incriminating cause, which usually occurs once in a person's life as chickenpox and may recur many years later as shingles [11,12].

**Herpes Zoster / Shingles** Symptoms and signs are identified by rashes on the body; Vesicles / Blisters; Chickenpox symptoms make their appearance 7–21 days after contracting VZV for the 1st time; painful, irritating and/or itchy lesions. Moreover, *herpes zoster* / shingles symptoms usually appear years after a chickenpox infection. Fatigued, tired, generally sick or weak feeling are cardinal *Herpes zoster* / shingles are non-contagous whereas, chickenpox is contagious during 7-21-day period and *Varicella zoster* virus (VZV) immunoglobulin M antibody test: may or may not be detected [13].

Furthermore, the affliction of left side of the face confined to the facial nerve and its branches, incidentally sparing them without any damage and is required to be focused attention to, especially in immuno-competent non-insulin dependent diabetes mellitus (NIDDM) type 2 or "adult-onset diabeteswell and not enough exercise [15]. The patient under review had high blood sugar levels which were detected over a prolonged period of time [1], apparent in the form of frequent urination, increased thirst, and increased hunger. HIV infected individuals are also prone to develop VZV infection [16], requiring exclusions of HIV infection.

**References**


